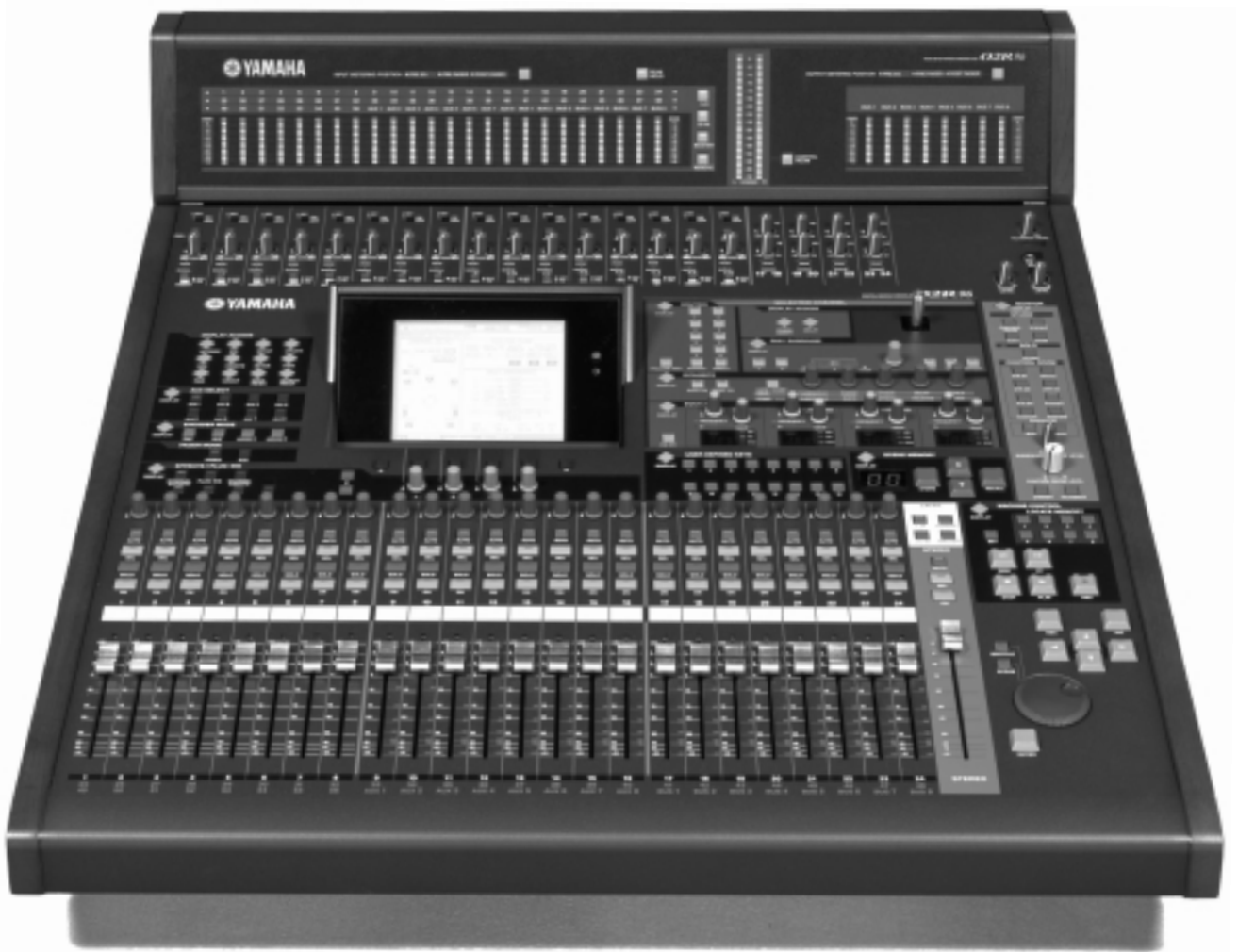




O2R 96

DIGITAL MIXING CONSOLE

사용 설명서



YAMAHA MUSIC KOREA LTD.

향후 참조를 위해 이 설명서를 보관하십시오.

• AC

• 가 가

•

•

• 가

• 가

• AC ,AC 가 , 가3

• 가

• 가

• 가 ,가

• 가 가

•

• 02R96 YGDAI 4 ,Yamaha

• .Yamaha가

• 가 (,),

• , ,AC 가

• , ,AC

•

•

• 가

- 가 가

- AC .
- .
- . 가
- . 가
- MB02R96 , 02R96 MB02R96
- , 가 , 가
- . 2 .
- MB02R96 02R96 , MB02R96 02R96
- , , AC ,
- 가 , AC
- . 가
- . AC
- XLR , 1- , 2- (+), 3- (-) .
- TRS , - , - , - .
- , rotary control, fader, connector 가 .
- 가 .
- "WARNING Low Battery!(!)" 가 ,가 . 가
- , MIDI .
- . TV .
- D- , connector . 가
- , connector . 가
- . 가
- 02R96 . 가 . 가

02R96

02R96

ADAT MultiChannel Optical Digital Interface Alesis Corporation ADAT
 Alesis Alesis Corporation . Apogee Apogee Electronics, Inc.
 . Apple, Mac Power Macintosh Apple Corporation, Inc. Mac OS
 Apple Corporation, Inc. . HUI Mackie Designs, Inc. . Intel
 Pentium Intel Corporation . Nuendo Steinberg Media Technologies
 AG . Pro Tools Digidesign Avid Technology, Inc.
 . Tascam Digital Interface Teac Corporation Tascam Teac
 Teac Corporation . Microsoft Windows Microsoft Corporation, Inc.
 . Waves Waves, Inc. . Yamaha Yamaha Corporation

02R96 , Yamaha Corporation

2002 Yamaha Corporation. All rights reserved.

Yamaha

Yamaha <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>>
 02R96, , Yamaha

- 02R96
- CD-ROM
-
-
- MB02R96
- SP02R96
- YGDAI I/O

02R96 .
 02R96 가 .
 , 29 " "

02R96 . "Input
 Channel", "Bus Out", "Aux Send", "Stereo Out" Input Output Channel

1	.....	1
2	Control	4
	Control	4
	.....	23
3	.....	29
	.....	29
	02R96	29
	.....	29
	.....	31
	.....	31
	.....	31
	.....	31
	.....	31
	.....	32
	Title Edit	32
	.....	33
	.....	34
	Fader	35
	Encoder	36
	ENCODER MODE Assign	37
4	I/O AD Input	39
	AD Input	39
	Stereo Out	40
	Control Room Monitor Out	40
	Studio Monitor Out	40
	Omni Out	40
	2TR Analog IN	40
5	I/O 가 (Cascading)	41
	.....	41
	2TR	43
	2TR	44
	2TR In	44
	Slot I/O	45
	.....	48
	Input Channel Status	48
	가 (Console Cascading)	49
6	Input Output Patch	52
	.....	52
	.....	54
	.....	57
	.....	57
	Encoder	58

7	Input Channel	59
	Input Channel	59
	Input Channel	59
	Input Channel	59
	Input Channel	60
	Input Channel	61
	Input Channel	61
	Input Channel EQ	62
	Input Channel Insert	62
	Input Channel	62
	Input Channel Compressor	63
	Input Channels Delay	63
	Input Channel (ON/OFF)	63
	Input Channel (Mute) (ON/OFF)	64
	Input Channel	65
	Input Channel Fader	65
	Input Channel	66
	Panning Input Channels	67
	Input Channel	69
	Aux Send Input Channel	72
	Input Channel	72
	Direct Outs	72
	Input Channel (pairing)	72
	MS	72
	Input Channel	72
	Input Channel	72
8	Stereo Out	73
	Stereo Out Connector	73
	Stereo Out	73
	Stereo Out Input Channel	73
	Stereo Out Bus Out	73
	Stereo Out	73
	Stereo Out	73
	Stereo Out	73
	Stereo Out EQ	73
	EQ	73
	Stereo Out Insert	74
	Stereo Out	74
	Compressor	74
	Stereo Out (ON/OFF)	74
	(ON/OFF)	74
	Stereo Out	74
	Fader	74
	Stereo Out (balancing)	75
	Stereo Out Delay	75
	Stereo Out	75
	Stereo Out	75

9	Bus Out	76
	Bus Out	76
	Bus Out Input Channel	76
	Bus Out	76
	Bus Out	76
	Bus Out	76
	Bus Out EQ	76
	EQ	76
	Bus Out Insert	76
	Bus Out	76
	Compressor	76
	Bus Out (ON/OFF)	77
	(ON/OFF)	77
	Bus Out	77
	Fader	77
	Bus Out Delay	77
	Bus Out	77
	Bus Out	77
	Stereo Out Bus Out	78
	Bus Out	78
	Bus Out	78
10	Aux Send	79
	Aux Send Master	79
	Aux Send	79
	pre-Fader post-Fader Aux Send	79
	Aux Send	80
	Aux Send	80
	Aux Send	82
	Aux Send	84
	Aux Send Master	85
	Aux Send Master	85
	Aux Send Master	85
	Aux Send Master EQ	85
	Master EQ	85
	Aux Send Master Insert	85
	Aux Send Master	85
	Master Compressor	85
	Aux Send Master (ON/OFF)	85
	Master (ON/OFF)	85
	Aux Send Master	86
	Master Fader	86
	Aux Send Master Delay	86
	Aux Send	86
	Aux Send (pairing)	86
	Aux Send Master	86
	Aux Send Master	86

11	.....	87
	.....	87
	.....	90
EQ	.....	91
Output Channel EQ	.....	94
(Insert)	.....	95
	.....	97
Output Channel Compressor	.....	100
Delay	.....	101
	.....	102
(pairing)	.....	104
Output Channel fader	.....	106
Output Channel	(ON/OFF)	107
	.....	108
fader	.....	109
	.....	112
12	Talkback	114
Control Room	.....	114
Studio	.....	115
Surround	.....	116
Talkback	.....	121
13	.....	122
	.....	122
	.....	122
	.....	123
Input Patch	.....	124
Output Patch	.....	124
Effects	.....	125
Bus to Stereo	.....	126
Gate	.....	127
Comp	.....	128
EQ	.....	129
Automix	.....	130
Surround Monitor	.....	130
14	Effect	131
Effect	.....	131
Effect	.....	131
effect	.....	131
Effect	.....	133
	.....	135
	.....	135
	.....	136
15	Scene Memory	138
Scene Memory	.....	138
Scene Memory	.....	139
SCENE MEMORY	Scene	140
Scene Memory	.....	141
Scene fade	.....	142
Scenes	.....	143
Scene	.....	144

16 Automix	145
Automix	145
Automix	145
Automix Main	146
Channel Strip [AUTO]	149
Automix Memory	150
Fader Edit	151
.....	152
.....	153
Automix	154
event	154
.....	155
punch in/out	156
Automix	157
event	158
17 MIDI	163
MIDI 02R96	163
MIDI I/O	163
MIDI	164
MIDI	165
Scene Program Change	166
Control Change	167
Parameter Change control	167
.....	168
18 Pro Tools Remote Layer	169
.....	169
.....	169
02R96	169
Pro Tools	170
Control Pro Tools Remote Layer	171
.....	179
.....	179
.....	179
.....	179
.....	179
.....	179
Send	180
Send Pre/Post	180
Send Levels	180
Send	180
Send	180
Flip	181
Insert/	182
.....	183
.....	184
Fader, Send panpot	184
Edit	184
(Zooming)	185
.....	185
Scrub Shuttle	186
Automation	187

19 Remote Control	189
Remote Layer	189
Remote Layer	189
Remote Layer	190
Remote Layer	191
control	192
	192
	193
Shuttle Scrub	193
Locator	194
Locate	194
GPI(General Purpose Interface:)	195
20	196
	196
Preferences	197
Oscillator	200
	200
02R96	201
Appendix A: Parameter Lists	202
USER DEFINED KEYS	202
USER DEFINED KEYS	204
Input Patch	204
Input Patch	207
Output Patch	208
Output Patch	213
Input Channel	214
Output Channel	214
Input Port	215
Output Port	216
GPI	217
Remote Layer	219
Effect	223
EQ	251
Gate (fs = 44.1 kHz)	255
Compressor (fs = 44.1 kHz)	255
Appendix B:	260
	260
Controls	265
Indicators	267
	267
	268
	268
	269
	269
I/O Slot (1-4)	270
Control I/O	270
Connector	271
	272

Appendix C: MIDI	273
Scene Memory Program Change Table	273
Control Change Table	274
MIDI	275
.....	275

Appendix D: Options	288
MB02R96	288
SP02R96	290

21	293
.....	293
CD-ROM	293
.....	294
.....	295
DM2000/O2R96	296
DM2000/O2R96	296

22	297
Acrobat Reader	297
USB MIDI	297
Yamaha CBX	303
DM2000 Studio Manager	303
O2R96 Studio Manager	303
Card Filer(DM2000)	303

23	304
Acrobat Reader	304
OMS(Open Music System)	304
USB MIDI	305
DM2000 Studio Manager	305
O2R96 Studio Manager	306
Card Filer(DM2000)	306
OMS	306

24	308
-----------------	------------

.....	311
-------	------------

1

Yamaha 02R96
 02R96 Digital 24-bit/96 kHz , DAW(Digital Audio
 Workstation:) 가 .

- (Linear) 24-bit, 128 A/D converter
- (Linear) 24-bit, 128 D/A converter
- 20 Hz - 40 kHz (0.5, - 1.5 dB) , 96 k
- 105 dB (Dynamic Range)(AD Input ~ Stereo Out)
- 32-bit (58-bit accumulator)

- 56 Input Channel Direct Out
- 8 Bus Out Stereo Out
- 8 Aux Send
- Stereo Out
-
- 127

I/O

- XLR(48 V) 16
24
- 16
- 4 -YGDAI I/O 32 32 .
I/O AES/EBU, ADAT, Tascam TDIF-1, mLAN
- 8 가 Omni
- 1 AES/EBU, 2 Coaxial 2 , 44.1/48 kHz
converter
- 1 AES/EBU, 2 Coaxial 2-
- 2 2-
- XLR RCA PIN stereo output
- control room monitor output
- Studio Monitor output
- 44.1/48 kHz I/O
- 4 02R96(, 224 Input Channel) 가 Cascade port

I/O

- 가 Input Channel, Insert In, Effect Input 가
- Direct Out, Insert Out, Bus Out, Aux Send, Stereo Out 가
- 가
- Input Output Patch 가

EQ

- Input Output Channel 4-band EQ
- EQ (40 , 160 (user memory))

(Pair)

- Input Channel
- Bus Out, Aux Send Surround Pan pairing
- 8 Input Channel, 4 Output Channel Fader
- 8 Input Channel, 4 Output Channel Mute
- 4 Input Channel, 4 Output Channel EQ
- 4 Input Channel, 4 Output Channel Compressor

Effect()

- 4 Effect
- (Effect) (52 , 76 (user memory))
- effect
- control 5.1 effect
- 56K effect
- MIDI effect control

- 56 Input Channel, Gate
- Gate (4 , 124 (user memory))
- Input Channel Output Channel compressor(74)
- compressor (36 , 92 (user memory))

(Automation)

- Automation 1/4-
- 16 Automix
- Automation MIDI Automix 99 Scene Memory
- fader
- Scene
- Punch In/out [AUTO] ,
- Fader Fader Return, Fader Takeover, / (Absolute/Relative mode)
- (erase), (copy), / (move/merge), (trim), (duplicate), (delete), (insert)

- 3-1 5.1
- control
-
-
-
- 32 (User Memory) Surround Monitor

Remote Control

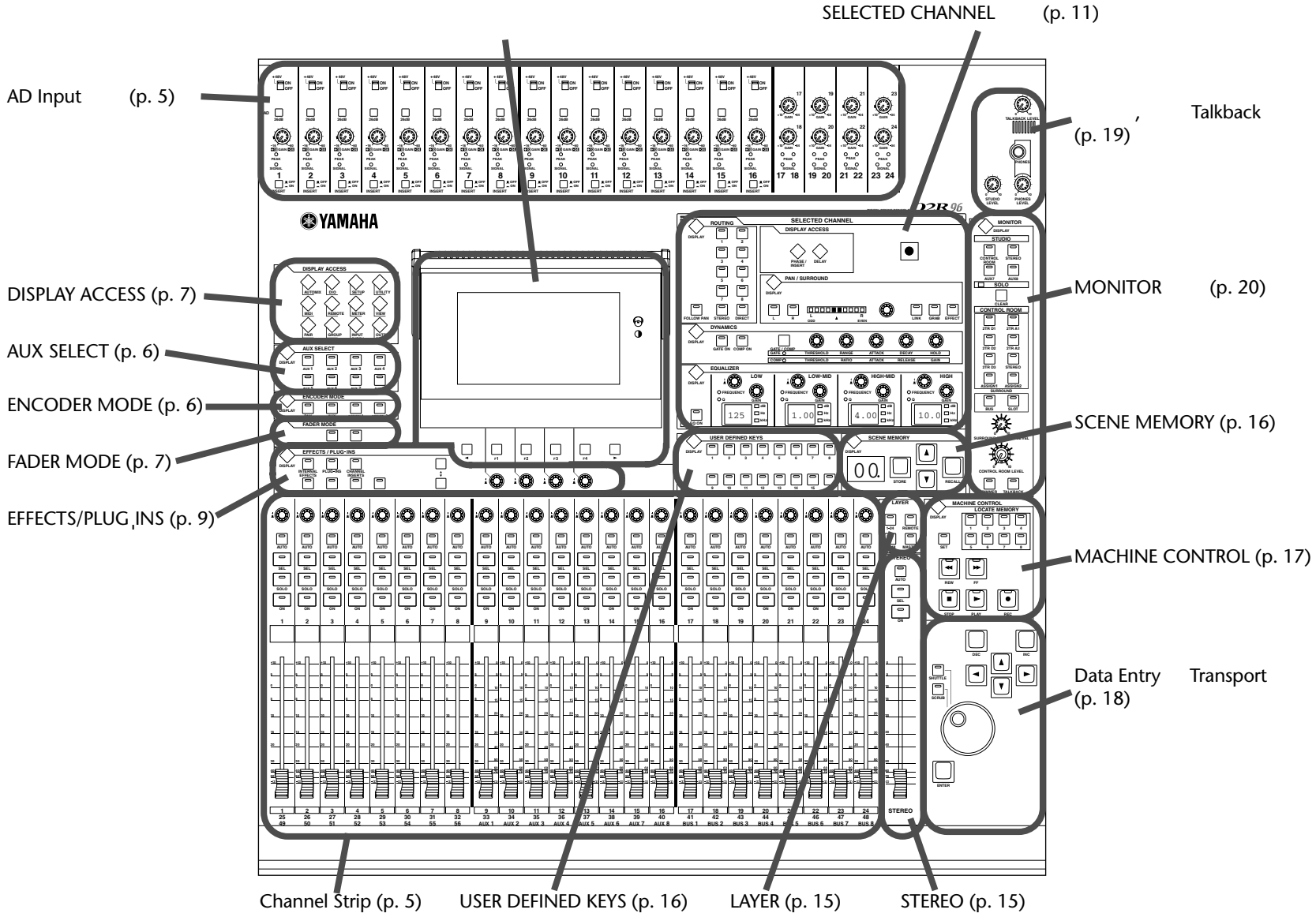
- Studio Manager Mac PC 02R96 control
- DAW control MIDI
- Remote Layer
- (transport), (track arming), / (jog/shuttle), (locator)
(Locate) 8 MMC control
- control " " 가 GPI(General Purpose Interface:)

MIDI

- MIDI , USB TO HOST , SERIAL TO HOST mLAN MIDI I/O
- USB, SERIAL mLAN
- Scene , (Mix parameter) control, (Bulk Dump), Automix
MTC MIDI , control MMC

Control

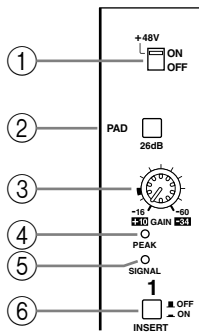
- 25 - 100-mm fader(Automix fader
punch in/out)
- fader Aux Send
- 24 Encoder Pan, Aux Send , control
- 2 Input Layer, Master Layer Remote Layer
- 320 x 240 LCD
- SELECTED CHANNEL control
- 2-digit Scene Memory
- , , Q 4 EQ
- 16



Control

2 Control

AD Input



① **+48V ON/OFF (AD 1-16)**

INPUT A(XLR connector) +48 V

② **PAD (AD 1-16)**

AD 26 dB (attenuator)

③ **GAIN control**

AD (AD Input Head Amp) control 가
 -16 dB ~ -60 dB +10 dB ~ -34 dB . AD 17 ~ 24
 +10 dB ~ 34 dB. 39 " " .

④ **PEAK indicator**

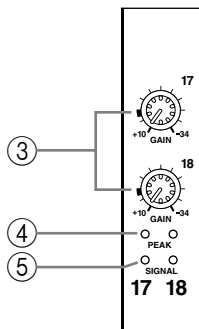
(clipping) 3 dB indicator가
 39 "PEAK SIGNAL indicator"

⑤ **SIGNAL indicator**

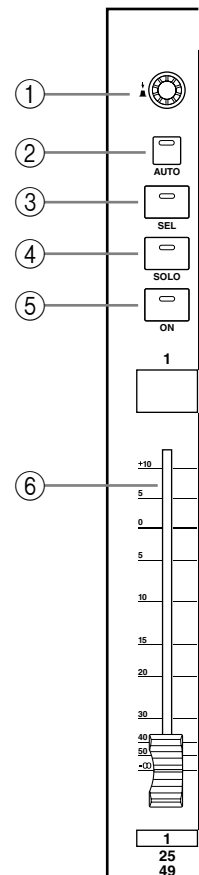
20 dB indicator가
 39 "PEAK SIGNAL indicator"

⑥ **INSERT ON/OFF (AD 1-16)**

AD Input insert . 40 "AD
 Insert(AD 1-16)" .



Channel Strip



① **Encoders**

Input Output Channel control .
 Encoder Layer . Encoder Pan
 Aux, 2 , 가 2 , 40
 . 36 "Encoder" .
 Encoder Push Switch , Automix Encoder punch
 in/out . 156 " punch in/out"

② **AUTO**

Automix . indicator Record-Ready ,
 "Channel Strip [AUTO]" . 149

③ **SEL**

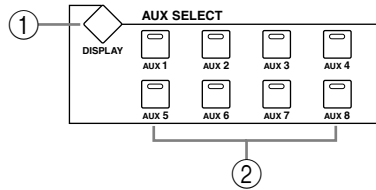
SELECTED CHANNEL Input Output Channel
 [SEL] indicator가 . 34 " "
 (Mute) . [SEL] 가 (pairing) , EQ, Comp, Fader,

Channel Strip 1

Channel Strip " " . 33

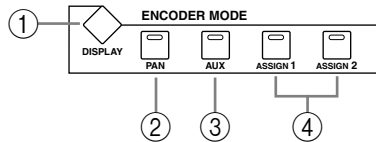
- ④ **SOLO**
 [SOLO] indicator가
 102 " " .
- ⑤ **ON**
 Input Output Channel
 [ON] indicator가 .
- ⑥ **fader**
 100 mm fader , Input Channel, Bus Out Aux Send
 Fade Layer .
 35 "Fader " fader
 65 "Input Channel Fader " 106
 "Output Channel fader "
 Input Output Channel Fader 34
 " (Auto channel Select) (Touch Sense Select)"
 . Automix punch in/out
 156 " punch in/out"

AUX SELECT



- ① **AUX SELECT DISPLAY**
 Aux Send, Aux Send Pan, Input Channel Aux View
 79 "Aux Send" .
- ② **AUX 1-8**
 Input Channel Aux Send Aux Send Aux
 Send indicator가 . Aux Send가 (pairing) ,
 indicator가 . 79 "Aux Send" ,
 . Aux Send (pairing) 104
 " (pairing)"

ENCODER MODE

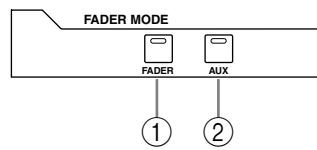


- ① **ENCODER MODE DISPLAY**
 Encoder Mode Assign . 36
 "Encoder" "
- ② **PAN**
 Pan Encoder . indicator가
 , Input Channel Layer , Encoder가 Pan control
 . Master Layer , Encoder 1-8 Input Channel 49-56 Pan control ,
 Encoder 9-24 . 36 "Encoder" "

③ **AUX**
 Aux Encoder , Input Channel Layer , Encoder가 Aux Send indicator가
 .Master Layer , Encoder 1-8 Input Channel 49-56 Aux Send control
 , Encoder 9-24 36 "Encoder"

④ **ASSIGN 1 2**
 (assign) 가 Encoder
 indicator가 (assign) 가 , Encoder
 (parameter) . 40 2
 37 "ENCODER MODE Assign"

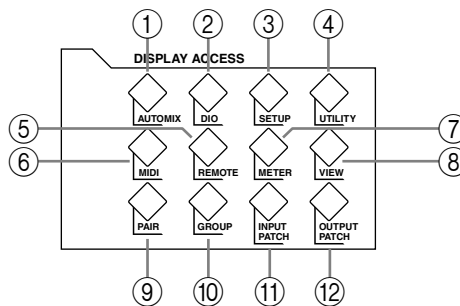
FADER MODE



① **FADER**
 fader가 Input Output Channel
 Fader . indicator가 35
 "Fader"

② **AUX**
 fader가 Aux Send Aux Fader
 indicator가 35 "Fader"

DISPLAY ACCESS



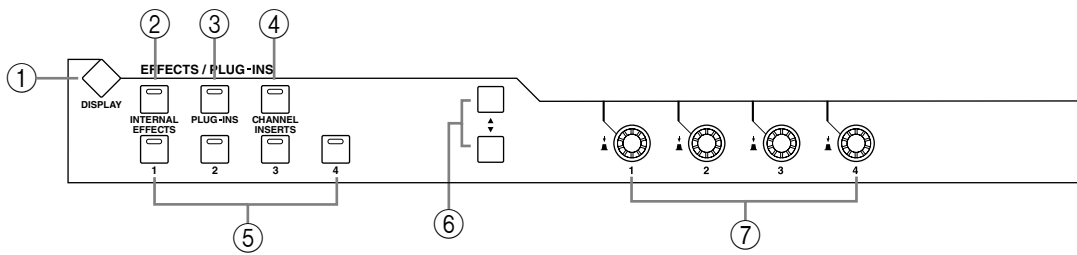
① **AUTOMIX**
 Automix Main, Automix Memory, Fader , Event , Event Automix
 145 "Automix"

② **DIO**
 (Word Clock Select), (Dither), 가 (Cascade In), 가
 (Cascade Out), Sampling Rate Converter, (Higher Sample
 Rate Data Format) 41
 I/O 가 (Cascading)"

③ **SETUP**
 Preferences 1, Preferences 2, Preferences 3, MIDI/TO HOST , GPI ,
 (Input Port Name), (Output Port Name), (Time Reference),
 (Time Signature)

- ④ **UTILITY**
Oscillator, (Channel Status Monitor), (Battery Check)
- ⑤ **REMOTE**
Remote Layer " 189 "Remote
- ⑥ **MIDI**
MIDI , Program Change Assign Table, Control Change Assign Table, Bulk Dump
163 "MIDI"
- ⑦ **METER**
Input Channel , Master Meter, Effect 1-4, Stereo , Metering Position
87 " "
- ⑧ **VIEW**
(Parameter View), Fader , (Channel)
108 " ", 109
" fader ", 123 " "
- ⑨ **PAIR**
Input Output Pair " (pairing)" 104
- ⑩ **GROUP**
Input Channel Fader , Input Channel (Mute Group), Output Fader
, (Output Mute Group), Input EQ , Output EQ , Input Comp ,
Output Comp
- ⑪ **INPUT PATCH**
Input Channel Patch, Input Channel Insert In Patch, Effect 1-4 Input Patch, Input Channel
Name, Input Patch " " 52
- ⑫ **OUTPUT PATCH**
Slot Output Patch, Omni Out Patch, Output Insert In Patch, Input Channel Direct Out
, 2TR (2TR Out Digital), Output Channel Name, Output Patch
54 " "

EFFECTS/PLUG-INS



① EFFECTS/PLUG-INS DISPLAY

Effect , Effect , (Plug-In Setup), (Plug-In Edit) 131 " Effect "

② INTERNAL EFFECTS

EFFECTS/PLUG-INS [1-4] effect indicator가 133 "Effect "

③ PLUG-INS

EFFECTS/PLUG-INS [1-4] indicator가 136 " "

④ CHANNEL INSERTS

effect Y56K effect가 , Effect (Plug-In Edit) 가 , indicator가 EFFECTS/PLUG-INS [1-4] indicator가 . Y56K가 , [PLUG-INS] indicator effect 가 , [INTERNAL EFFECTS] indicator가 . 133 "Effect " 136 " "

⑤ EFFECTS/PLUG-INS 1-4

EFFECTS/PLUG-INS [INTERNAL EFFECTS] [PLUG-INS] effect effect indicator가 . EFFECTS/PLUG-INS [CHANNEL INSERTS] indicator가 ,

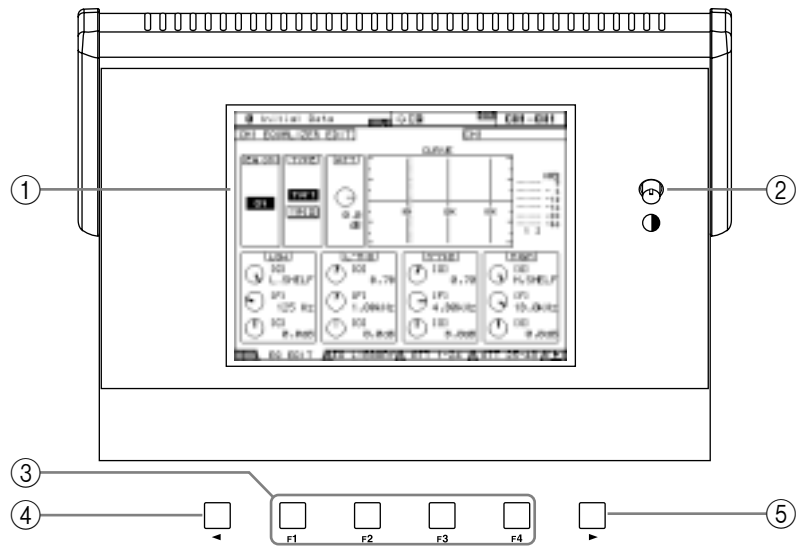
⑥ Parameter Up/Down

(Parameter) control 1-4 effect 가 가 up 16 가 down 가 133 "Effect " 136 " "

⑦ Parameter control 1-4

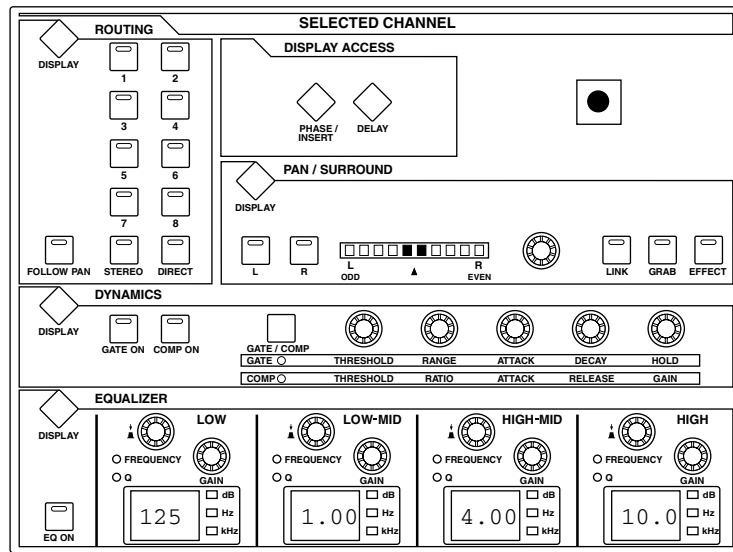
Rotary control Push Switch . Rotary control effect . Effect (Parameter) Up/Down 133 "Effect " 136 " " Push Switch Rotary control Effect (parameter) Automix Rotary control punch in/out 156 " punch in/out"

(Display Section)



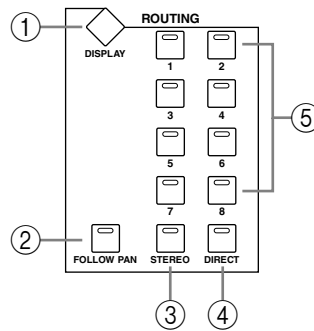
- ① 320 x 240 , Scene
(sampling rate) . 29
" " .
- ② Contrast() control control .
- ③ F1-F4 . 31
" " .
- ④ Left Tab Scroll() 가 , 31 " .
- ⑤ Right Tab Scroll() 가 , 31
" " .

SELECTED CHANNEL



SELECTED CHANNEL

ROUTING



① ROUTING DISPLAY

Input Channel Routing, Bus to Stereo, Bus to Stereo

Out Bus Out " 66 "Input Channel " 78 "Stereo

② FOLLOW PAN

Input Channel Bus Out

indicator가 66 "Input Channel

③ STEREO

Input Channel Stereo Out (routing)

indicator가 66 "Input Channel "

④ DIRECT

Input Channel Direct Out (routing)

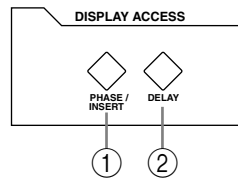
indicator가 66 "Input Channel "

⑤ ROUTING 1-8

Input Channel Bus Out (routing)

Channel (routing) Bus Out indicator가 . Input 66 "Input Channel "

DISPLAY ACCESS



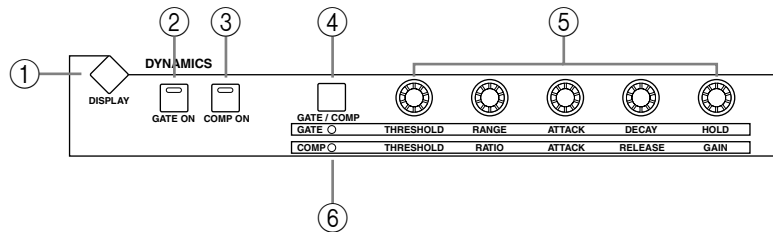
① **PHASE/INSERT**

Input Channel Phase Insert
59 " " 95 " " .

② **DELAY**

Delay
Delay" . 101 "

DYNAMICS



① **DYNAMICS DISPLAY**

Gate , Gate , Comp , Comp
60 "Input Channel " 97 "

② **GATE ON**

Input Channel Gate . Gate
indicator가 60 "Input Channel "

③ **COMP ON**

compressor . compressor
indicator가 97 " " .

④ **GATE/COMP**

Gate Compressor Rotary control . Output
Channel , Compressor가
60 "Input Channel " 97 " " .

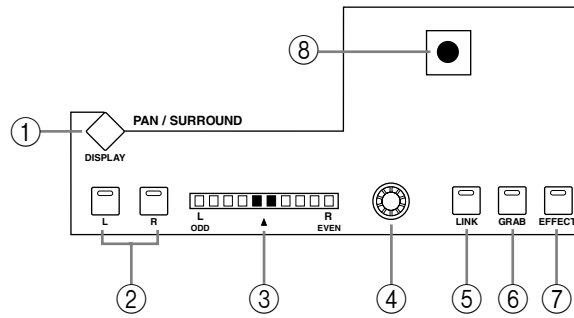
⑤ **THRESHOLD, RANGE, ATTACK, DECAY, HOLD (THRESHOLD, RATIO, ATTACK, RELEASE, GAIN) control**

GATE/COMP GATE , Input Channel Gate
(Threshold), (Range), (Attack), (Decay), (Hold)
control . COMP , Compressor
(Threshold), (Ratio), (Attack), (Release), (Gain) (parameter)
60 "Input Channel " 97 "

⑥ **GATE/COMP indicator**

Rotary control Gate Compressor indicator
. Gate control GATE indicator가 , Compressor control
COMP indicator가 60 "Input Channel
" 97 " " .

PAN/SURROUND



① PAN/SURROUND DISPLAY

Input Channel Pan , Surround Mode Surround
 Pan " . 67 "Input Channel " 69 "Surround

② L R

Input Output Channel
 . Stereo Out , Input
 Channel , Pan , / [L] indicator가 . Input
 , / [R] indicator가 . Gang Inverse Gang
 Pan , indicator가 .

③ PAN

10 Input Channel . pan
 , 가 . Stereo Out ,

④ PAN control

Input Channel rotary control . Stereo Out
 , . Input Channel , Gang Inverse Gang
 Pan , (pairing) Input Channel
 (panning) . 67 "Input Channel " 75 "Stereo Out
 (balancing)" .

⑤ LINK

Stereo가 Surround , PAN control
 control surround .
 Input Channel . PAN control
 indicator가 . effect (, [EFFECT])
 indicator가), 67 "Input
 Channel " 69 "Surround Pan " .

⑥ GRAB

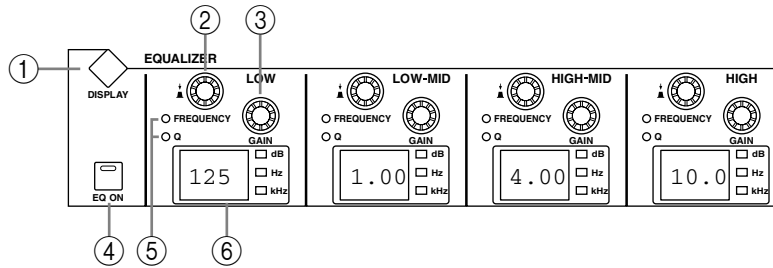
Stereo가 Surround , Input
 Channel control . (Grab) indicator가
 . (Grab) , Input Channel surround
 PAN control , surround
 (, [LINK] indicator가), PAN control
 effect (, [EFFECT])
 indicator가),

⑦ EFFECT

Reverb 5.1 (parameter) control
 . Reverb 5.1 control indicator가 , surround
 . 245 "REVERB 5.1" .

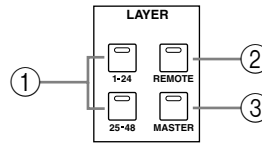
- ⑧ surround control, Reverb 5.1 (parameter) indicator가, Reverb 5.1 . [EFFECT] indicator가, "REVERB 5.1" . [EFFECT] indicator가 [GRAB] indicator가, Input Channel surround . [EFFECT] [GRAB] indicator가 (Auto Grab) surround, 69 "Surround Pan" . [EFFECT] indicator [GRAB] [LINK] indicator, PAN control . 67 "Input Channel"

EQUALIZER



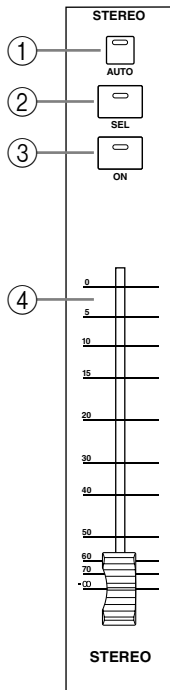
- ① **EQUALIZER DISPLAY**
EQ, EQ, Input Channel Attenuator/Shifter, Output Attenuator
- ② **FREQUENCY/Q control**
Rotary control Push Switch, Push Switch Q, FREQUENCY/Q indicator, Rotary control Push Switch 91 "EQ"
- ③ **EQ GAIN control**
EQ band control, 91 "EQ"
- ④ **EQ ON**
EQ, EQ indicator가, 91 "EQ"
- ⑤ **FREQUENCY/Q indicator**
FREQUENCY/Q control Q, FREQUENCY indicator가, Q indicator가, 91 "EQ"
- ⑥ **EQ**
band, Q, Q, .2 Q, 91 "EQ"

LAYER



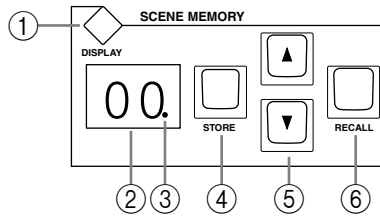
- ① **1-24** **25-48**
 Channel strip Input Channel Input Channel Layer
 " " LAYER indicator가 . 33
- ② **REMOTE**
 DAW() Remote Layer
 Remote Layer 189 "Remote Layer " 33 "
- ③ **MASTER**
 Channel strip Input Channel 49-56, Bus Out Aux Send가 (Master Layer)
 Layer) . Master Layer indicator가 . 33 " " .

STEREO



- ① **AUTO**
 Stereo Out Automix . Record-Ready indicator가
 . 149 "Channel Strip [AUTO]" .
- ② **SEL**
 Stereo Out [SEL] SELECTED CHANNEL Stereo Out
 . Stereo Out . Stereo Out indicator가 . 34 " EQ, Comp, Fader, (Mute) Stereo Out 가
- ③ **ON**
 Stereo Out . Stereo Out indicator가
 . 74 "Stereo Out (ON/OFF)" .
- ④ **Fader**
 100 mm fader Stereo Out
 74 "Stereo Out " . Output Channel
 fader " . Stereo Out , 34 " "Output Channel
 (Auto channel Select) . Stereo Out , Automix Stereo Out
 punch in/out . 156 " punch in/out"

SCENE MEMORY



① SCENE MEMORY DISPLAY

Scene Memory, Input Channel Fade Time, Output Fade Time, Recall safe, Scene Memory
138 "Scene Memory"

② Scene memory

Scene Memory 138 "Scene Memory"

③ indicator

Scene
138 "Scene Indicator"

④ STORE

Scene Memory Scene
140 "SCENE MEMORY Scene"

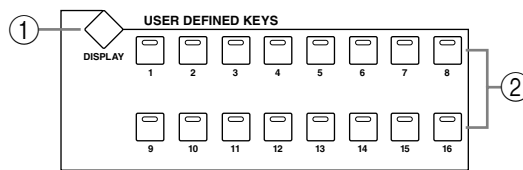
⑤ Scene Up/Down

Scene Memory Scene Up [▲] 가
, Scene Down [▼]
가/ 140 "SCENE MEMORY
Scene"

⑥ RECALL

Scene Memory 140
"SCENE MEMORY Scene"

USER DEFINED KEYS



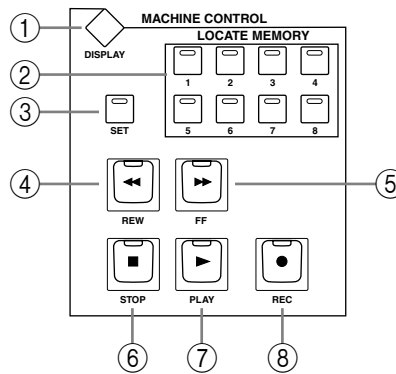
① USER DEFINED KEYS DISPLAY

User Defined Keys Assign 196
"

② USER DEFINED KEYS 1-16

150 16
196 " " . DAW(
) (Remote Layer)가
189 "Remote Layer"

MACHINE CONTROL



① MACHINE CONTROL DISPLAY

(Locate) (Machine Configuration)

194 "Locate" 192 "

② LOCATE MEMORY 1-8

(DAW, MMC) (Locate) indicator가 (Locate)
194 "Locator" "

③ SET

8 194 "Locator" " indicator가

④ REW

(DAW, MMC) 가 . 가 가
indicator가 . 193 " "

⑤ FF

(DAW, MMC) 가 . 가 가
indicator가 . 193 " "

⑥ STOP

(DAW, MMC) . indicator가
193 " "

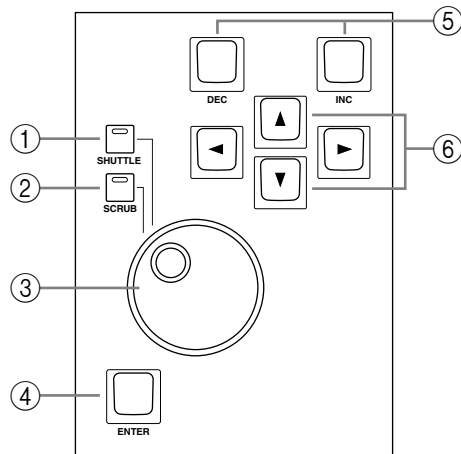
⑦ PLAY

(DAW, MMC) indicator가 . 193 " "

⑧ REC

[PLAY] (DAW, MMC) indicator가 . 193 "
"

Data Entry Transport



① SHUTTLE

control(DAW, MMC) (parameter wheel) Shuttle
 .Shuttle indicator가 . 193
 "Shuttle Scrub "

② SCRUB

control(DAW, MMC) (parameter wheel) Scrub
 .Scrub indicator가 . 193
 "Shuttle Scrub "

③ Parameter wheel()

(parameter wheel) (parameter) , Scene
 , Scene, Effect
 . (detented action) (parameter) 가 (param
 eter) 가 . (parameter) 가 ,
 . (parameter) 가
 (parameter wheel) Shuttle Scroll
 193 "Shuttle Scrub "

④ ENTER

(parameter) , EQ ON/OFF on/off
 (parameter) , Scene, Effect
 . Pan Pan control ,
 가 . (parameter) , [ENTER]
 (,)

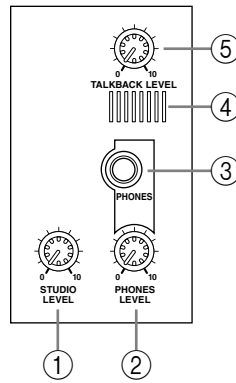
⑤ DEC INC

(parameter) . [INC]
 (parameter) 1 가 , [DEC]
 (parameter)
 EQ ON/OFF on/off (parameter) .
 (parameter) , [DEC]
 [INC]
 Scene .

⑥ Cursor()

(parameter)
 . , (parameter)
 가

Talkback



① **STUDIO LEVEL control**

STUDIO MONITOR OUT
115 "Studio"

control

② **PHONES LEVEL control**

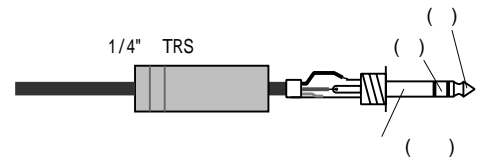
PHONES
"Control Room"

control

114

③ **PHONES**

TRS Control room



④ **Talkback**

Talkback

121

"Talkback"

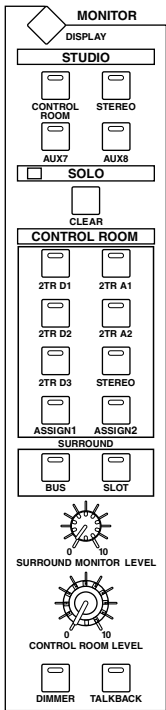
⑤ **TALKBACK LEVEL control**

Talkback
"Talkback"

control

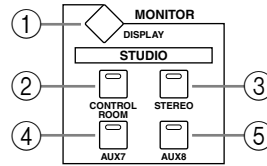
121

MONITOR



MONITOR

STUDIO



① MONITOR DISPLAY

Solo Setting, Control Room Setup, Talkback Setup
 102 " " , 114 "Control Room"
 " 121 "Talkback" " " "Surround Pan"
 , Surround Monitor Setup, Surround Monitor Patch, Surround Monitor
 116 "Surround" "

② CONTROL ROOM

Studio Monitor Control Room Monitor
 indicator가 115 "Studio" "

③ STEREO

Studio Monitor Stereo Out
 indicator가 115 "Studio" "

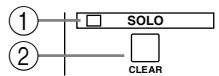
④ AUX 7

Studio Monitor Aux Send 7
 indicator가 115 "Studio" "

⑤ AUX 8

Studio Monitor Aux Send 8
 indicator가 115 "Studio" "

SOLO



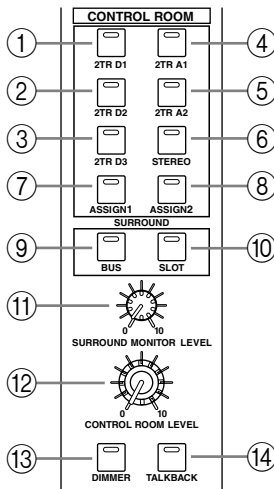
① SOLO indicator

, indicator가
 102 " " "

② CLEAR

" " " 102

CONTROL ROOM



①	STEREO 2TR D1	Control Room Monitor	2TR IN DIGITAL AES/EBU 1	indicator가	114	"Control Room
②	STEREO 2TR D2	Control Room Monitor	2TR IN DIGITAL COAXIAN 2	indicator가	114	"Control Room
③	STEREO 2TR D3	Control Room Monitor	2TR IN DIGITAL COAXIAL 3	indicator가	114	"Control Room
④	STEREO 2TR A1	Control Room Monitor	2TR IN ANALOG 1	indicator가	114	"Control Room
⑤	STEREO 2TR A2	Control Room Monitor	2TR IN ANALOG 2	indicator가	114	"Control Room
⑥	STEREO	Control Room Monitor	Stereo Out	indicator가	114	"Control Room
⑦	STEREO ASSIGN 1	Output Channel	Control Room Monitor	indicator가	115	"Control Room Setup"
⑧	STEREO ASSIGN 2	Output Channel	Control Room Monitor	indicator가	115	"Control Room Setup"
⑨	SURROUND BUS	Bus Out	Surround Monitor	indicator가	116	"Surround
⑩	SURROUND SLOT		Surround Monitor	indicator가	116	"Surround
⑪	SURROUND MONITOR LEVEL control	Surround Monitor		control	116	"Surround
⑫	CONTROL ROOM LEVEL control	Control Room Monitor		control	114	"Control Room

⑬ DIMMER

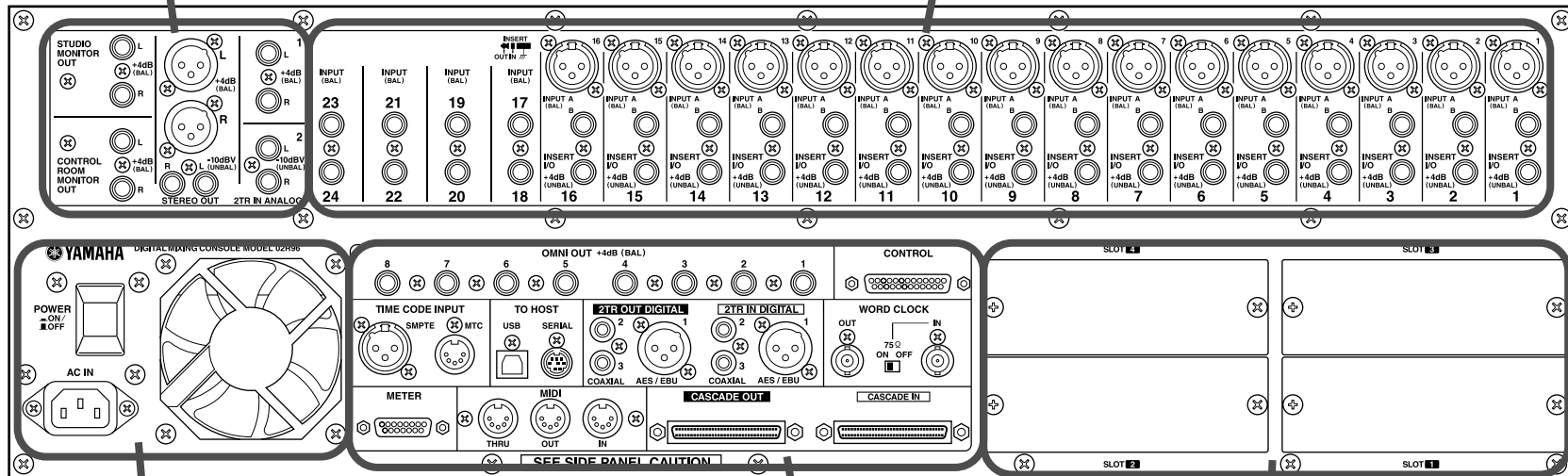
Control Room Monitor	Surround Monitor	dim	.
dim indicator	.	114	"Control Room
"	.		

⑭ TALKBACK

Talkback Setup	Studio Monitor Out	Slot	Omni Output	Talkback
"Talkback	Talkback	.	121	
"	.			

I/O (Analog
Master I/O Section) (p. 24)

AD Input (p. 24)

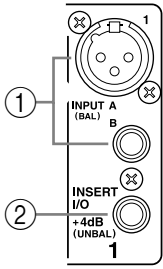


(Power
Section) (p. 28)

OMNI OUT, Digital I/O Control (p. 26)

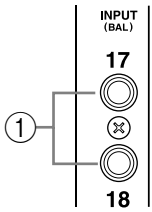
SLOT (p. 28)

AD Input



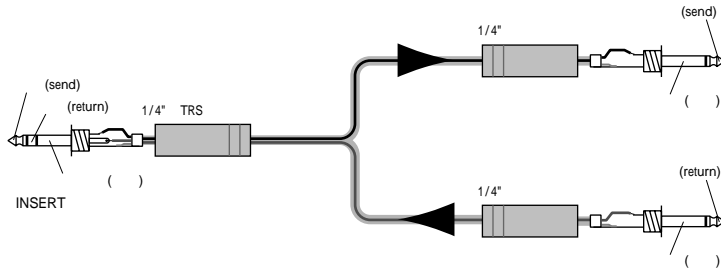
① INPUT A B (BAL) connector

AD 1-16 가 , XLR 3-31 connector 가 , 1/4 (+48 V) XLR connector 가 , XLR connector 가 , XLR connector 가 , AD Input 17-24 가 , 1/4 . AD Input Channel Insert In "AD Input" 39

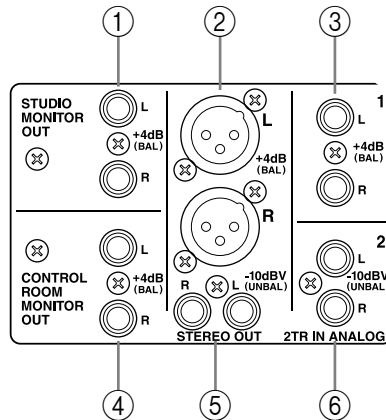


② INSERT I/O +4dB (UNBAL) connector(AD 1~16)

(insert) 1/4 TRS , AD 1-16 , -return, -send . +4 dB . INSERT ON/OFF Insert "AD Input" 39

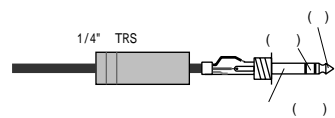


I/O (Analog Master I/O Section)



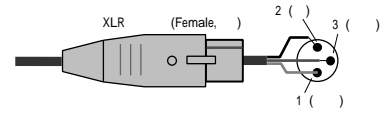
① STUDIO MONITOR OUT +4 dB (BAL)

1/4 TRS , +4 dB Studio Monitor STUDIO , Aux Send 7 , Aux Send 8 , Stereo Out, Control Room "Studio" STUDIO LEVEL control 115



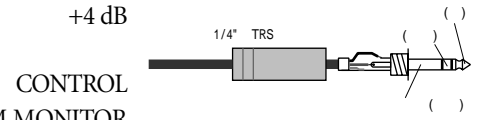
② STEREO OUT +4 dB (BAL)

XLR 3-32 connector
 +4 dB Stereo Out
 2 Stereo Input
 1- (+), 2- (+), 3- (-)
 73 "Stereo Out Connector"



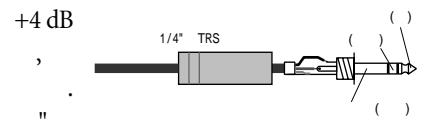
③ 2TR IN ANALOG 1 +4 dB (BAL)

1/4" TRS
 2
 ROOM [2TR A1] CONTROL ROOM MONITOR
 OUT Input Channel Insert In
 40 "2TR Analog IN"



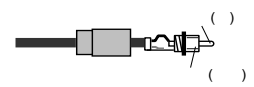
④ CONTROL ROOM MONITOR OUT +4 dB (BAL)

1/4" TRS
 Control Room Monitor
 114 "Control Room"



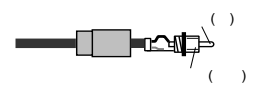
⑤ STEREO OUT -10 dBV (UNBAL)

RCA PIN ()
 Stereo Out 2
 73 "Stereo Out Connector"

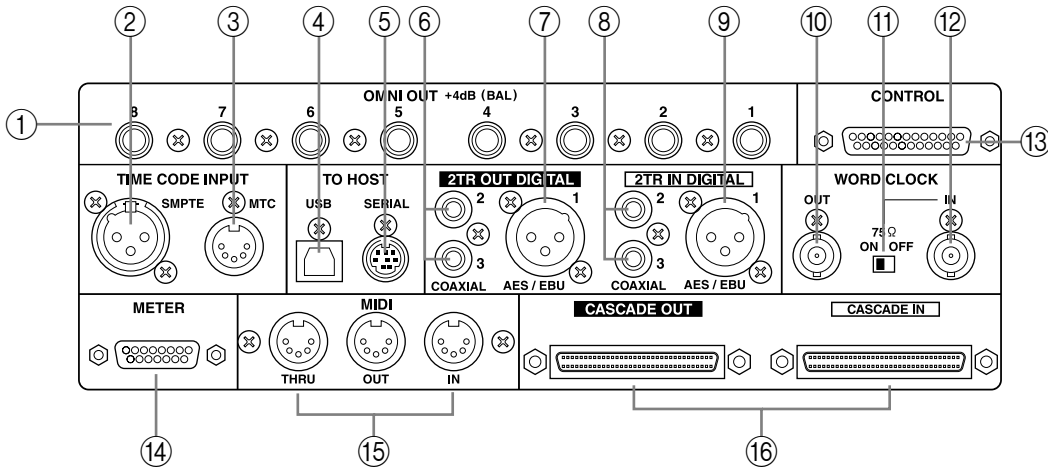


⑥ 2TR IN ANALOG 2 -10 dBV (UNBAL)

RCA PIN ()
 CONTROL ROOM [2TR A2] CONTROL
 ROOM MONITOR OUT
 Input Channel Insert In
 "2TR Analog IN" 40

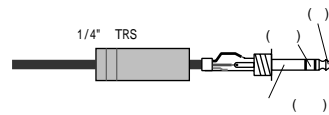


OMNI OUT, Digital I/O Control



① OMNI OUT +4dB (BAL)

1/4 TRS +4 dB
 8
 Bus Out, Aux Send, Stereo Out, Insert Out, Direct Out
 Surround Monitor Channel
 40 "Omni Out"



② SMPTE TIME CODE INPUT connector

XLR 3-31 connector Automix SMPTE
 152 "

③ MTC TIME CODE INPUT connector

5- DIN connector Automix MTC
 152 "

④ USB TO HOST

USB 02R96 USB 가 MIDI
 163 "MIDI I/O"

⑤ SERIAL TO HOST

8 DIN 02R96 가 MIDI
 163 "MIDI I/O"

⑥ 2TR OUT DIGITAL COAXIAL 2 3

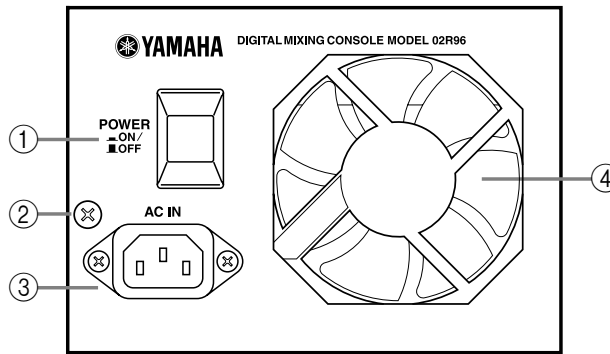
RCA PIN (IEC-60958) 2
 stereo Stereo Out, Bus Out,
 Aux Send, Direct Out, Insert Out, Control Room
 (dither) 43
 "2TR"

⑦ 2TR OUT DIGITAL AES/EBU 1

XLR 3-32 connect AES/EBU 2
 stereo Stereo Out, Bus Out,
 Aux Send, Direct Out, Insert Out, Control Room
 (dither) 43
 "2TR"

- ⑧ **2TR IN DIGITAL COAXIAL 2 3**
 RCA PIN (IEC-60958) , 2
 stereo CONTROL
 ROOM [2TR D2] [2TR D3] CONTROL ROOM MONITOR OUT
 Input Channel Insert In
 converter
 44 "2TR "
- ⑨ **2TR IN DIGITAL AES/EBU 1**
 XLR 3-31 connector AES/EBU , 2
 CONTROL
 ROOM [2TR D1] CONTROL ROOM MONITOR OUT
 Input Channel Insert In
 converter
 44 "2TR "
- ⑩ **WORD CLOCK OUT connector**
 BNC connector 02R96
 41 " "
- ⑪ **WORD CLOCK 75 ON/OFF**
 WORD CLOCK IN 75 43
 " "
- ⑫ **WORD CLOCK IN connector**
 BNC connector 42
 " "
- ⑬ **CONTROL**
 25 D connector GPI(General Purpose Interface:)
 02R96 fader USER DEFINE KEYS , GPI
 가 "RECORDING" , 02R
 가 Talkback
 195 "GPI(General Purpose Interface:)"
- ⑭ **METER**
 15 D connector 02R96
- ⑮ **MIDI IN, OUT THRU**
 MIDI IN, OUT, THRU 02R96 MIDI
 MIDI Scene ,
 (parameter) Control (parameter) ,
 (Bulk Dump), MIDI , MTC, MMC 163
 "MIDI I/O"
- ⑯ **CASCADE IN OUT**
 64 connector 4 02R96 가 (cascading)
 .02R96 02R 가 (cascading)
 49 " 가 (Console Cascading)"

(Power Section)



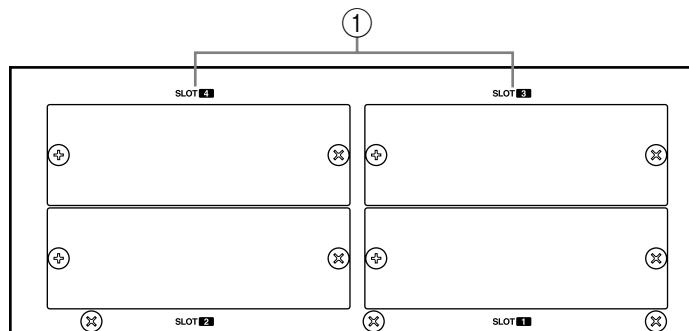
① POWER ON/OFF
02R96 " 29 "02R96

② Grounding screw()
fader 02R96
3 ,AC 가 ,
.AC 가 ,

③ AC IN connector
02R96 AC connector
29 " " .

④ Cooling fan()
 , 02R96
가 .

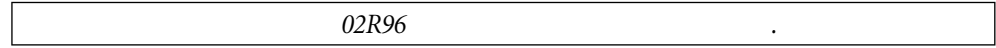
SLOT



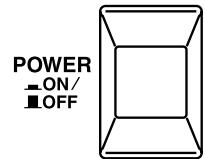
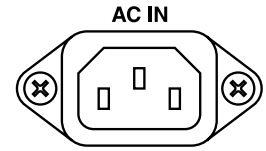
① SLOT 1-4
4 I/O YGDAI
45 "Slot I/O" . Slot input Input
Channel Insert In . 52 " "
. Slot Output Bus Out, Aux Send, Stereo Out, Insert Out,
Direct Out, Surround Monitor Channel . 54 " "

3

02R96



AC IN .02R96 AC



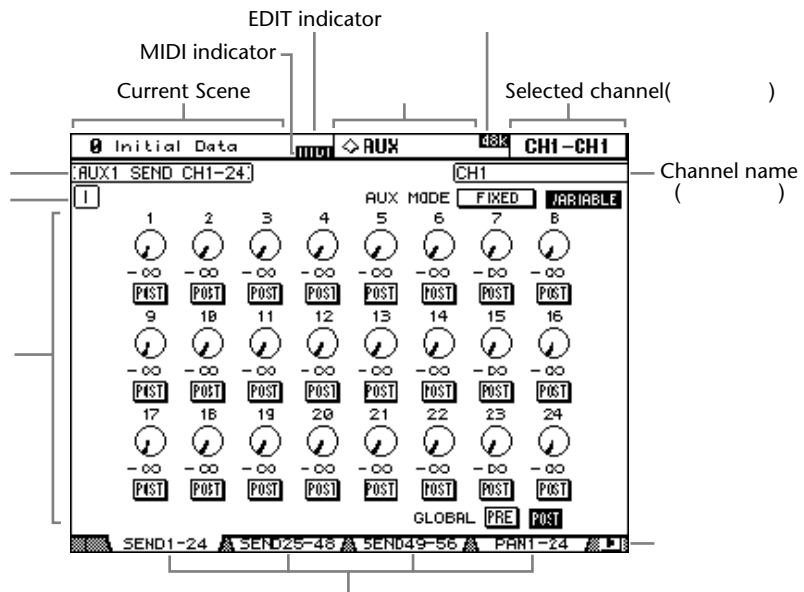
1 02R96

[POWER] 가

2 02R96

[POWER]

02R96



Current Scene: Scene Memory "SCENE MEMORY" Scene "140" 가 "Scene Memory" "141" "Scene Memory" "MIDI indicator. 02R96 MIDI IN , USB TO HOST SERIAL TO HOST MIDI indicator"



[DISPLAY] . AUX SELECT, ENCODER MODE, EFFECTS/PLUG-INS, ROUTING, DYNAMICS, PAN/SURROUND, EQUALIZER, SCENE MEMORY, USER DEFINED KEYS, MACHINE CONTROL, MONITOR. DISPLAY ACCESS

- [DISPLAY]
- [DISPLAY]
- F1-F4



Channel Attenuator

Input Channel 1-24 Attenuator 1 Input Channel 25

가 , 가 , 가 , F1-F4

가 , Layer [25-48] [SEL] 가 , Input Channel 25-48 Attenuator 가

[DISPLAY] 가

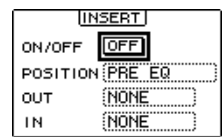
control 가

CHANNEL EQUALIZER control EQ 가 , SELECTED

197

, rotary control fader

INSERT POSITION, OUT, IN



INC/DEC [ENTER]

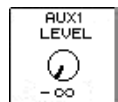
SELECTED CHANNEL

rotary control

가

control

. control

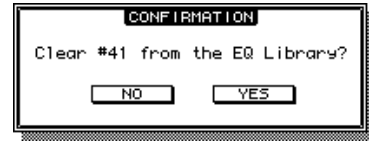


가

,02R96

YES

NO



Title Edit

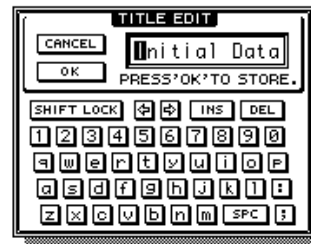
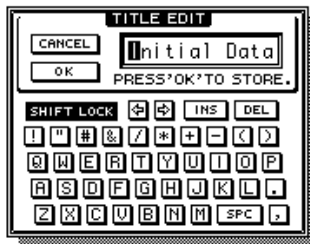
Title Edit

Scene

, Automix

가 , 가
가

4 , 12 , 16



가 , [ENTER]
가

SHIFT LOCK

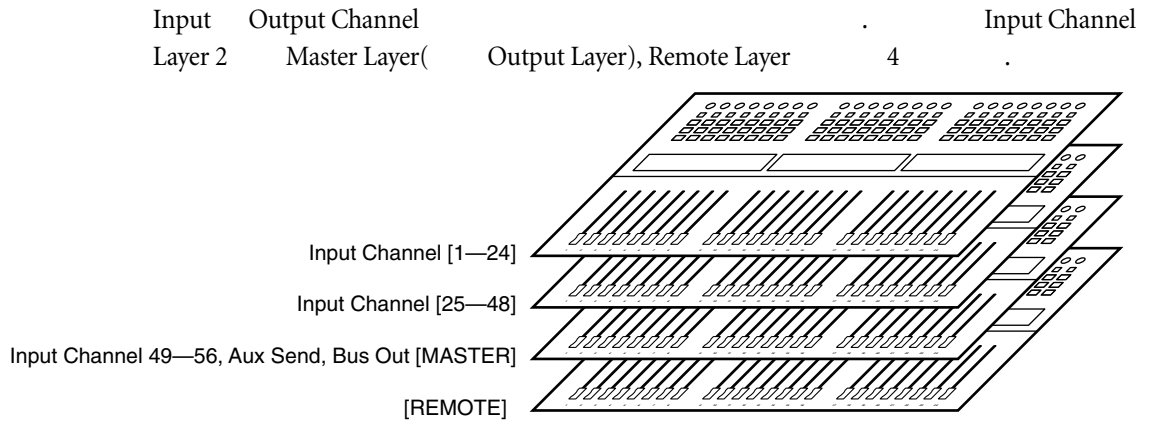
SPC

INS

DEL

OK

, CANCEL



Channel strip control LAYER

Input Output Channel

LAYER indicator가

channel strip Encoder, [AUTO], [SEL], [SOLO], [ON], fader


[SEL] 1, 1-24 Input Channel 1

25-48 Input Channel 25, Master Layer


Input Channel 49

channel strip Input Output Channel


LAYER




1-24



REMOTE



25-48



MASTER

	Channel Strip		
	1-8	9-16	17-24
1-24	Input Channel 1-24		
25-48	Input Channel 25-48		
MASTER	Input Channel 49-96	Aux Send 1-8	Bus Out 1-8
REMOTE	189 "Remote Layer"		

channel strip fader Encoder Fader

Encoder "Encoder" 35 "Fader" 36

SELECTED CHANNEL control Input Output Channel , LAYER
 , [SEL]

1 33

2 [SEL]

Input Output Channel

[SEL] indicator가 .
 ID (30).
 [SEL]
 , [SEL] 1 , 1-24 Input Channel 1
 , 25-48 Input Channel 25 ,
 Input Channel 49 .



	[SEL]		
	1-8	9-16	17-24
1-24	Input Channel 1-24		
25-48	Input Channel 25-48		
MASTER	Input Channel 49-96	Aux Sends 1-8	Bus Out 1-8
REMOTE	189	"Remote Layer	"

Input Output Channel , [SEL]
 indicator가 . [SEL] indicator .
 SELECTED CHANNEL PAN/SURROUND [L] [R] Input
 Output Channel , Stereo Out
 가 , [SEL]
 가 , Output Channel
 Delay 가 , Input Channel [SEL] Input Channel
 Delay 가 Delay 가 .

Stereo Out [SEL]

Stereo Out [SEL] SELECTED CHANNEL control Stereo Out
 . Stereo Out indicator가 ,
 Stereo Out . SELECTED CHANNEL PAN/SURROUND [L]
 [R]
 가 Stereo Out 가 , Stereo Out [SEL]
 가 ,
 가 , Input Channel Delay
 , Stereo Out [SEL] Stereo Out Delay
 Delay 가 .

(Auto channel Select)

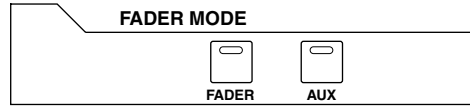
(Touch Sense

Select)

[AUTO], [SOLO], (197) , fader Encoder
 [ON]
 (199) , fader knob

Fader

- 1 33 fader Layer Fader
- 2 FADER MODE Fader




[FADER]: fader가 Input Channel Output Channel

[AUX]: fader가 Aux Send
 FADER MODE indicator가 fader

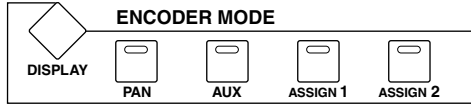
		Fader		
		1-8	9-16	17-24
1-24	Fader	Input Channel 1-24		
	Aux	Input Channel 1-24 Aux Send		
25-48	Fader	Input Channel 25-48		
	Aux	Input Channel 25-48 Aux Send		
	Fader	Input Channel 49-56	Aux Send 1-8	Bus Out 1-8
	Aux	Input Channel 49-56 Aux Send	: (-) fader	
	Fader	189 "Remote Layer"		
	Aux			

Encoder

Encoder Layer Encoder .Pan 
 Aux 2가 Encoder 40
 2가 가 가 .

1 33

2 ENCODER MODE Encoder



[PAN]: Encoder가 control
 [AUX]: Encoder가 Aux Send
 [ASSIGN 1/2]: Encoder가 ASSIGN
 37 "ENCODER MODE Assign"

ENCODER MODE indicator가
 Encoder Encoder

	Encoder	Encoder		
		1-8	9-16	17-24
1-24	Pan	Input Channel 1-24		
	Aux	Input Channel 1-24 Aux Send		
	Assign 1/2	Input Channel 1-24		
25-8	Pan	Input Channel 25-48		
	Aux	Input Channel 25-48 Aux Send		
	Assign 1/2	Input Channel 25-48		
	Pan	Input Channel 49-56		
	Aux	Input Channel 49-56 Aux Send		
	Assign 1/2	Input Channel 49-56	Aux Send 1-8	Bus Out 1-8
	Pan			189 "Remote
	Aux	Layer	"	
	Assign 1/2			

가

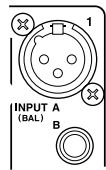
		Encoder	Push Switch
1	No Assign	-	-
2	Attenuator	Attenuator	-
3	Input Patch	Input Channel	
4	Insert In Patch	Insert In	
5	Insert Out Patch	Insert Out	
6	Direct Out	Direct Out	
7	Phase	: /	-
8	Insert On	Insert /	-
9	Aux pre/post	Aux /	-
10	Delay On	Delay /	-
11	Delay Time	Delay	-
12	Delay FB Gain	Delay FB	-
13	Delay Mix	Delay	-
14	EQ On	EQ /	-
15	EQ Type	EQ	-
16	EQ Low Q	EQ Q	-
17	EQ Low F	EQ	-
18	EQ Low G	EQ	-
19	EQ Low-Mid Q	EQ - Q	-
20	EQ Low-Mid F	EQ -	-
21	EQ Low-Mid G	EQ -	-
22	EQ High-Mid Q	EQ - Q	-
23	EQ High-Mid F	EQ -	-
24	EQ High-Mid G	EQ -	-
25	EQ High Q	EQ Q	-
26	EQ High F	EQ	-
27	EQ High G	EQ	-
28	Gate On	Gate /	-
29	Gate Threshold	Gate	-
30	Gate Range	Gate	-
31	Gate Attack	Gate	-
32	Gate Decay	Gate	-
33	Gate Hold	Gate	-
34	Comp On	Comp /	-
35	Comp Threshold	Comp	-
36	Comp Ratio	Comp	-
37	Comp Attack	Comp	-
38	Comp Release	Comp	-
39	Comp Out Gain	Comp	-
40	Comp Knee/Width	Comp /	-
41	Surr. LFE Level	Surround LEF	-
42	Surr. Pan Wheel	Surround	-
43	Scene Fade Time	Scene	-

4 I/O AD Input

AD Input

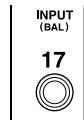
02R96 - 24 AD INPUT .
 AD INPUT Input Channel Input Channel Insert In (52
). Output Channel Insert In (55).

AD INPUT connector(AD 1-16)



AD INPUT 1~ 16 XLR 3-31 connector 1/4
 , -60 dB ~ +10 dB .
 XLR connector ,
 가 XLR connector .

AD INPUT connector(AD 17-24)



AD INPUT 17 ~ 24 1/4 ,
 -34 dB ~ +10 dB .

(AD 1-16)

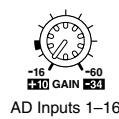


AD Input 1 ~ 16 +48V
 , AD Input XLR 3-31 connector .

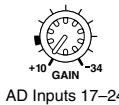
(AD 1-16)



AD Input 1 ~ 16 26dB 가 -
 가 .
 (Snare drum) " (hot)" (hot)



AD Input , 가 가 -16 dB ~ -60 dB +10 dB
 ~ -34 dB(AD INPUT 17-24 +10 dB ~ -34 dB) detented rotary
 control . GAIN control ,



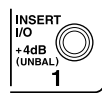
control , GAIN
 indicator가가 . PEAK
 , PEAK indicator가
 , GAIN control .
 . GAIN ,

PEAK SIGNAL indicator



GAIN control PAD
 indicator . 20 dB SIGNAL
 indicator가 . 3 dB PEAK
 indicator가 .

AD Insert(AD 1-16)



AD Input 1 ~ 16
insert가
+4 dB
1/4 TRS
- , - , -



AD Input insert INSERT ON/OFF
, insert

Stereo Out

Stereo Out 73

Control Room Monitor Out

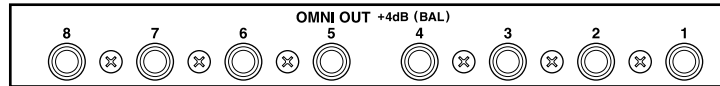
Control Room Monitor 114

Studio Monitor Out

Studio Monitor 115

Omni Out

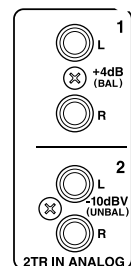
02R96 1/4 TRS 가 Omni Out . Omni Out
Bus out, Aux Send, Stereo Out, Input Output Channel Insert Out, Surround
Monitor Channel (55) . Input Channel Direct Out
Omni Out (56) .



OMNI OUT +4 dB(-10 dB)) +18 dB(+4 dB)

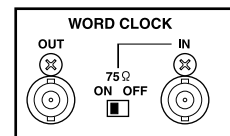
2TR Analog IN

02R96 2 , 2TR IN
ANALOG 1 +4 dB (BAL) 1/4 TRS , 2TR IN
ANALOG 2 -10 dBV (UNBAL) RCA PIN
CONTROL ROOM [2TR A1] [2TR A2] Control
Room Monitor . Input Channel(52
) , Output Channel Insert
In(55))



5 I/O 가 (Cascading)

(Wordclock) , 가 , MIDI , SMPTE/EBU MTC , 가 , 가 , AES/EBU, ADAT, Tascam BNC , 02R96 , 02R96 , 02R96 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz Slot Input, 2TR , CASCADE IN BNC WORD CLOCK IN connector 가 , 가 indicator . 02R96 BNC BNC WORD CLOCK IN connector , 75 ON/OFF (43) WORD CLOCK OUT 02R96



가

1 DISPLAY ACCESS [DIO] Word Clock Select

0 Initial Data		◇ DIO		96k		CHI-CHI						
WORD CLOCK SELECT												
SLOT TYPE	IN	OUT	1/2	3/4	5/6	7/8	9/10	11/12	13/14	15/16		
SLOT1												
DA96	0	8	☐	☐	☐	☐	☐	☐	☐	☐		
SLOT2												
AD96	8	0	☐	☐	☐	☐	☐	☐	☐	☐		
SLOT3												
AE96	8	8	☒	☒	☒	☒	☐	☐	☐	☐		
SLOT4												
AE96/BU	8	8	☒	☒	☒	☒	☐	☐	☐	☐		
FS			☒ WC IN		☒ CAS.IN		☒ 2TRD1		☒ 2TRD2		☒ 2TRD3	
96kHz			☐ INT 44.1k		☐ INT 48k		☐ INT 88.2k		☐ INT 96k			
WORD CLOCK		DITHER		CASCADE		CAS OUT						

2 , [ENTER]

SLOT TYPE I/O . IN OUT I/O

FS 44.1kHz,

48kHz, 88.2kHz, 96kHz, Unlock()

가

SLOT1-6 (1/2-15/16): Slot Input . Input

I/O

WC IN: WORDCLOCK IN connector

CAS.IN: CASCADE IN

2TRD1, 2TRD2, 2TRD3: 2TR

INT44.1k, INT48k, INT88.2k, INT96k: generator

가

☐ 가

☒ 가

☐ , 02R96

■

☒ , 가 가

☐ I/O I/O

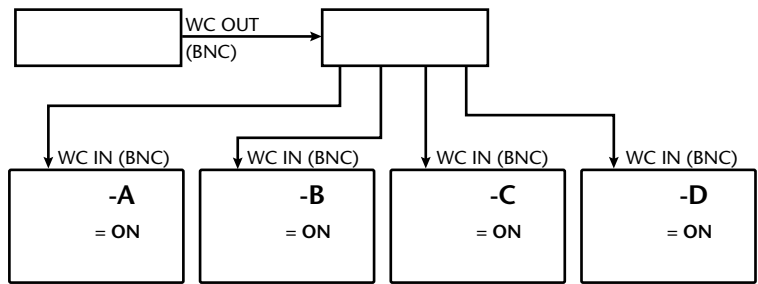
가 ,

가 , 02R96 가

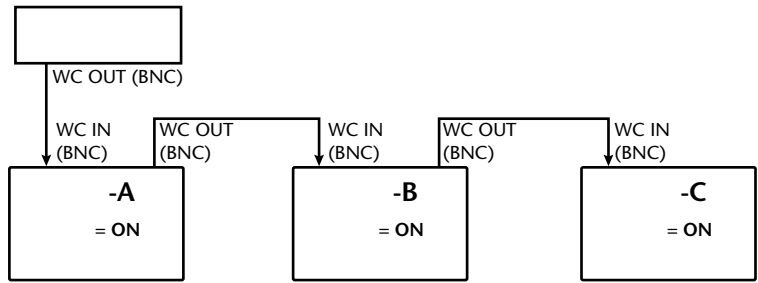
generator

BNC (jitter) 가 . 2가 WORD CLOCK 75 ON/OFF ON . OFF

Word Clock Box

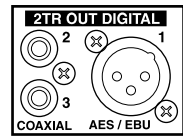


Daisy Chain



2TR

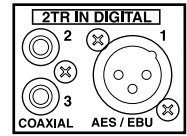
02R96 2 , 2TR OUT
 DIGITAL AES/EBU 1 XLR 3-32 connector AES/EBU
 . 2TR OUT DIGITAL COAXIAL 2 (IEC-60958)
 3 RCA PIN
 Bus Out, Aux Send, Stereo Out, Input
 Output Channel Insert Out, Control Room (56)
). Direct Out (48)



(56

2TR

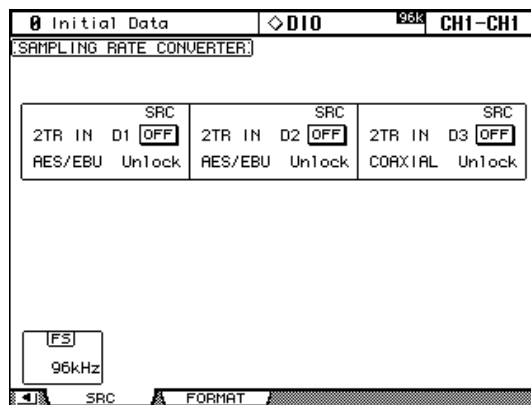
02R96 2 , 2TR IN
 DIGITAL AES/EBU 1 XLR 3-31 connector AES/EBU
 . 2TR IN DIGITAL COAXIAL 2
 3 connector (IEC-60958)
 CONTROL ROOM [2TR D1],
 [2TR D2] [2TR D3] Control Room
 Input Channel(52), Input Channel Insert In(53) Output
 Channel Insert In(55) . 02R96
 converter
 (44). Channel Status
 Monitor (48).



2TR In

02R96 2TR converter가 , 44.1/48 kHz

1 DISPLAY ACCESS [DIO] Sampling Rate Converter



2 , INC/DEC , [ENTER]

FS 44.1kHz, 48kHz, 88.2kHz, 96kHz, Unlock

2TR IN D1-3: 2TR converter
 가 02R96
 가

Slot I/O

02R96 I/O AES/EBU, ADAT, Tascam I/O
 YGDAI(Yamaha General Digital Audio Interface) I/O slot 4

Input Channel Input Channel Insert In(52) Output
 Channel Insert In(55) Slot Output Bus Out Aux
 Send, Stereo Out, Insert Out, Surround Monitor Channel(54) Direct Out(56)

Slot Output
 (48)

가

가 YGDAI I/O . Yamaha
 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>> I/O

		In	Out	/	Connector
MY8-AD		8	-	20-bit, 44.1/48 kHz	() x8
MY8-AD24 ¹		8	-	24-bit, 44.1/48 kHz	
MY4-AD		4	-		XLR 3-31 ()
MY8-AD96		8		24-bit, 44.1/48/88.2/96 kHz	25 D-
MY4-DA		-	4	24-bit, 44.1/48 kHz	XLR 3-32 ()
MY8-DA96		-	8	24-bit, 44.1/48/88.2/96 kHz	25 D-
MY8-AE ²	AES/EBU I/O	8	8	24-bit, 44.1/48 kHz	
MY8-AE96				24-bit, 44.1/48/88.2/96 kHz	
MY8-AE96S ³					
MY8-AT ²	ADAT I/O				x2
MY8-TD ²	Tascam			24-bit, 44.1/48 kHz	25 D-BNC
MY8-mLAN	IEEE1394				6- 1394 connector x2

- 20-bit MY8-AD
- 24-bit/96 kHz
- converter MY8-AE96

I/O

, 02R96 , Yamaha
 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/>>
 Yamaha

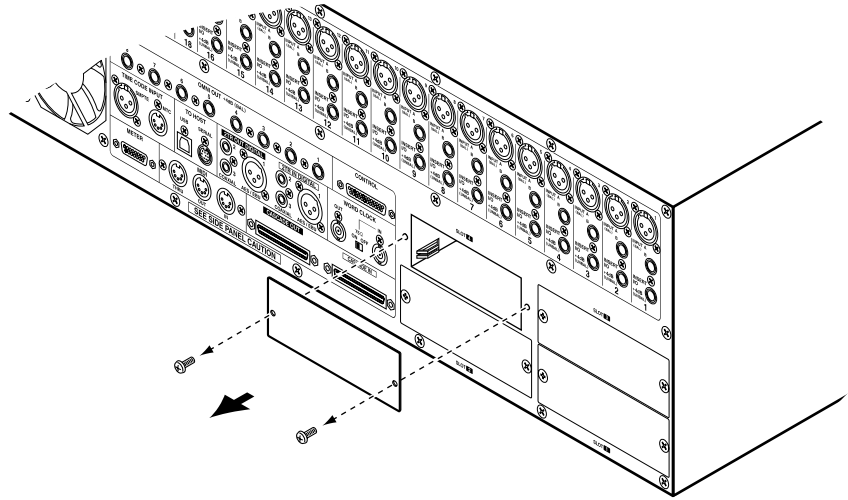
I/O

I/O

1 02R96

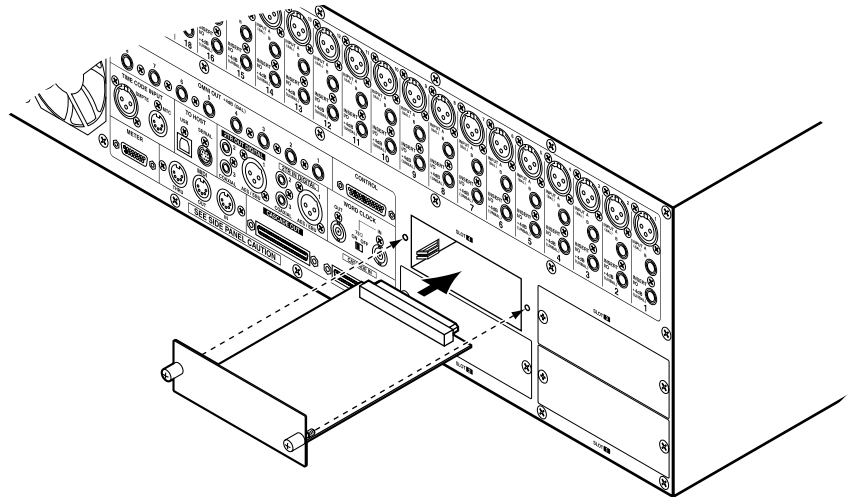
2

2



3

가 connector 가



4

02R96

가

Word Clock Select

I/O

(42)

1 DISPLAY ACCESS [DIO]

Higher Sample Rate Data Transfer Format

0 Initial Data		◇DIO		96k		CH1-CH1	
HIGHER SAMPLE RATE DATA TRANSFER FORMAT							
SLOT TYPE	IN	OUT	SRC				
			1/2	3/4	5/6	7/8	
SLOT1 D/A	DOUBLE CHANNEL	DOUBLE CHANNEL	-	-	-	-	-
SLOT2 AES/EUB	DOUBLE SPEED	DOUBLE CHANNEL	OFF 96kHz	ON 44.1kHz	ON 48kHz	ON 88.2kHz	ON
SLOT3 TDIF	DOUBLE CHANNEL	DOUBLE CHANNEL	-	-	-	-	-
SLOT4 D/A	-	-	-	-	-	-	-

2 , INC/DEC , [ENTER]

SLOT TYPE I/O

IN/OUT: (, 88.2 kHz 96 kHz) , I/O

Double Channel Double Speed

Double Speed , 가 (, 88.2 kHz 96 kHz)

Double Channel , 2 가

8 I/O 4 Double Channel

96 kHz 44.1/48 kHz

IN OUT (, 88.2 kHz 96 kHz)가

가 44.1 kHz 48 kHz , I/O 가 I/O

가 MY8-AE, MY8-AT, MY8-TD 88.2/96 kHz가 I/O 가 , IN OUT

Double Channel

SRC: converter 가 02R96

converter가 I/O MY8-AE96S

,2TR

Slot Output

16-bit, 20-bit 24-bit

1 DISPLAY ACCESS [DIO]

Dither

0 Initial Data		◇ DIO		96k		CHI-CHI	
[DITHER]							
2TR OUT D1 RES/EBU		2TF OUT D2 RES/EBU		2TR OUT D3 COAXIAL			
24bit		24bit		24bit			
	1/2	3/4	5/6	7/8	9/10	11/12	13/14 15/16
SLOT1 D/A	16bit	16bit	24bit	16bit	16bit	OFF	16bit 16bit
SLOT2 RES/EBU	20bit	OFF	16bit	20bit	20bit	16bit	20bit 20bit
SLOT3 TDIF	24bit	16bit	20bit	16bit	OFF	OFF	OFF OFF
SLOT4 D/A	OFF	20bit	OFF	OFF	OFF	OFF	16bit OFF
WORD CLOCK DITHER CASCADE CAS OUT							

2

INC/DEC

SLOT I/O
[ENTER]

Input Channel Status

2TR Slot Input

1 DISPLAY ACCESS [UTILITY]

Channel Status Monitor

0 Initial Data		◇ UTILITY		96k		CHI-CHI	
[CHANNEL STATUS MONITOR]							
SLOT3		SLOT4		2TR IN			
SLOT1		SLOT2		2TR IN			
	2TR IN D1	2TR IN D2	2TR IN D3	---			
FS	44.1k	(UNLOCK)	---	---			
EMPHASIS	OFF	---	---	---			
CATEGORY	RES/EBU	---	---	---			
COPY	---	---	---	---			
OSCILLATOR CH STATUS BATTERY							

2

SLOT 1-4 2TR IN

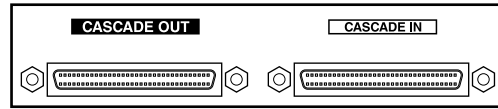
, [ENTER]

(FS), , , 가

가 (Console Cascading)

02R96 4 가 , 224 Input Channel .가
 , Scene recall,
 .가 Yamaha 02R

CASCADE IN CASCADE OUT
 가 control



가

가 02R96

- AUX SELECT
-
-
- FADER MODE
- ENCODER MODE
-
- Peak Hold On/Off
- on/off
- Scene ,

Scene 가

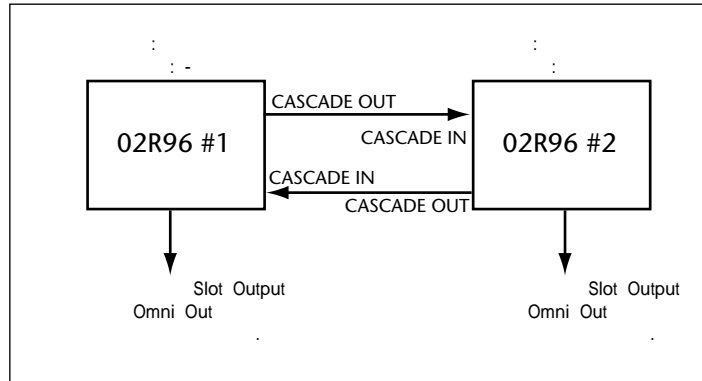
- Automix : Automix , , , , , (AutoREC, REC, PLAY, STOP, ABORT).
- Automix :Automix 가/ , , , , (FADER, ON, PAN, SURR, AUX, AUX ON, EQ), ON/OFF, OFF/RETURN/TAKEOVER, , Update To End On/Off, ABSOLUTE/RELATIVE Fader On/Off, On/Off, 가 COMM preference(198 preference)

:가	COMM	preference가	,가	02R96
MIDI		.02R96 2 가가	MIDI	,가
COMM	preference가	,		,

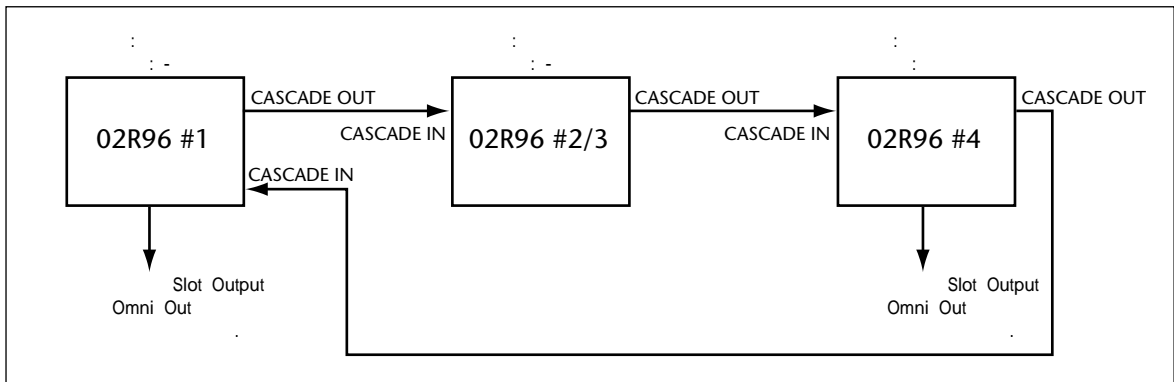
02R96 Yamaha DM2000 가 ,
 , DM2000 Matrix Send , Aux Send
 9-12 02R96 .

가

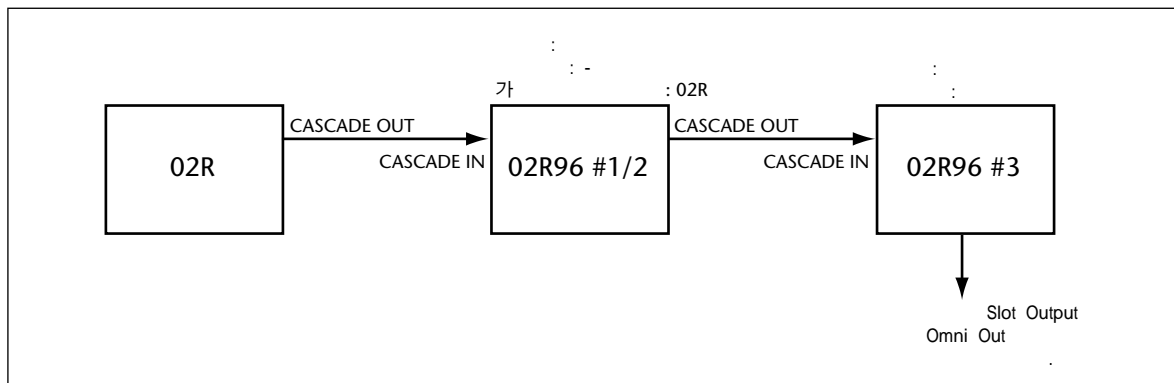
02R96 2 가



02R96 3 가



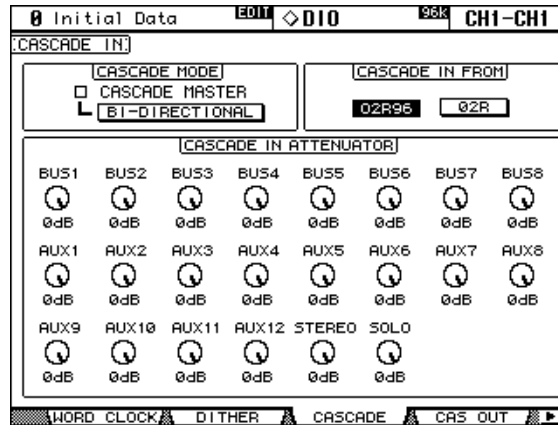
02R 가



가 attenuation

Cascade In 가 ,가 가

1 DISPLAY ACCESS [DIO] Cascade In



2 , INC/DEC , [ENTER]

CASCADE MODE: 2 02R96 , BI-DIRECTIONAL ,가 02R96 CASCADE

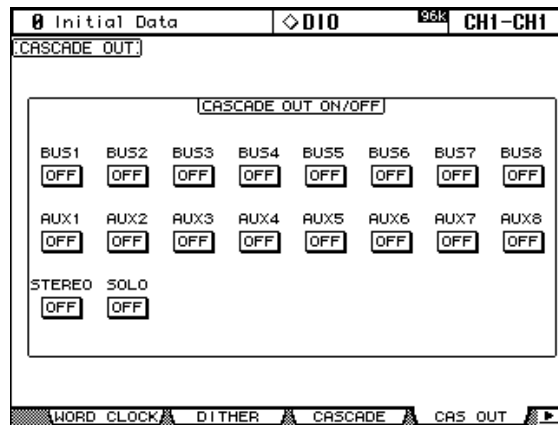
MASTER , 가

CASCADE IN FROM: 02R96 02R CASCADE IN , 02R96 CASCADE IN , 02R96

CASCADE IN ATTENUATOR: 가 control .AUX9-AUX12 control 02R96 2 Yamaha DM2000 가 , 02R96 . [ENTER] attenuator

가 가

1 DISPLAY ACCESS [DIO] Cascade Out



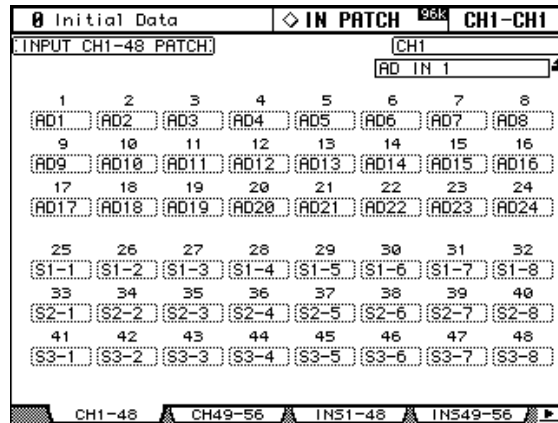
2 ON/OFF , [ENTER]

6 Input Output Patch

Input Channel Input Channel Insert In, effect Input Patch
 , DISPLAY ACCESS [INPUT PATCH]
 , INC/DEC
 , [ENTER]
 (Short Port)
 (Long Port)
 Patch Select 가 (57) Encoder Input
 Channel Insert In, Insert Out (58))
 204 . 207
 1 32 Input Patch
 " 124 "Input Patch

Input Channel

AD Input, Slot Input, effect 2TR , Bus Out
 Aux Send Input Channel
 56 Input Channel Input Channel
 Input Channel 1-48
 Input Channel (pairing) , CH1, CH25, CH2, CH26

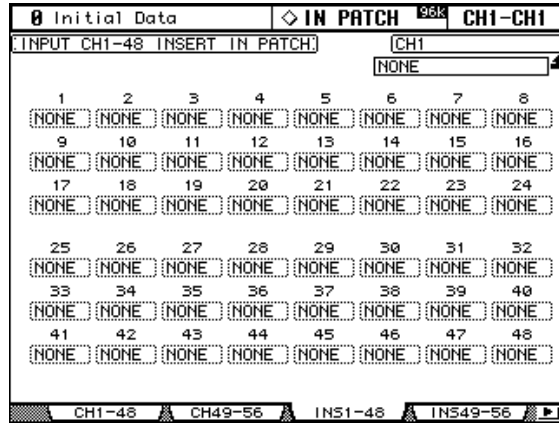


, LAYER [SEL]

Input Channel Insert In

AD Input, Slot Input, effect, 2TR
Input Channel Insert In

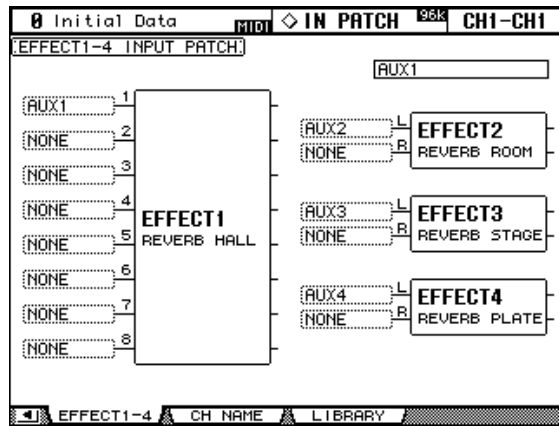
56 Input Channel Input Channel Insert In
Input Channel 1-48 Insert In
Input Channel (pairing) CH1,
CH25, CH2, CH26



, LAYER [SEL]

Effect Input

Effect 1-4 Input Patch Aux Send, effect Output Channel
Insert Out effect



Slot Output, Omni Out, Output Channel Insert In, Direct Out, 2TR
 Output Patch , DISPLAY ACCESS [OUTPUT
 PATCH]
 INC/DEC , [ENTER]
 Patch Select (57).
 Encoder Insert In, Insert Out, Direct Out (58).
 208 213
 1 32 Output Patch
 124 "Output Patch"

Slot Output

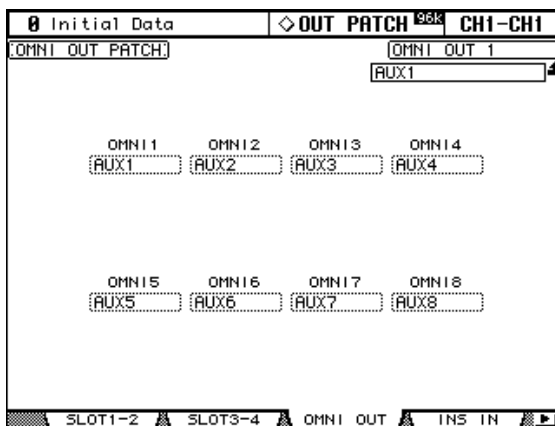
Bus Out, Aux Send, Stereo Out, Input Output Insert Out, Surround Monitor Channel
 Slot Output . Slot Output Direct Out Destination
 Direct Out (56).
 4 Slot Output Patch Slot 1-2
 Output Patch

Initial Data		OUT PATCH ^{96k}		CH1-CH1	
[SLOT1-2 OUTPUT PATCH]				[BUS1]	
SLOT1					
1	2	3	4		
[BUS1]	[BUS2]	[BUS3]	[BUS4]		
5	6	7	8		
[BUS5]	[BUS6]	[BUS7]	[BUS8]		
9	10	11	12		
[BUS1]	[BUS2]	[BUS3]	[BUS4]		
13	14	15	16		
[BUS5]	[BUS6]	[BUS7]	[BUS8]		
SLOT2					
1	2	3	4		
[BUS1]	[BUS2]	[BUS3]	[BUS4]		
5	6	7	8		
[BUS5]	[BUS6]	[BUS7]	[BUS8]		
9	10	11	12		
[BUS1]	[BUS2]	[BUS3]	[BUS4]		
13	14	15	16		
[BUS5]	[BUS6]	[BUS7]	[BUS8]		
SLOT1-2		SLOT3-4		OMNI OUT	INS IN

Slot Output Direct Out (56), Input Channel Routing
 Direct Out , Slot Output

Omni Out

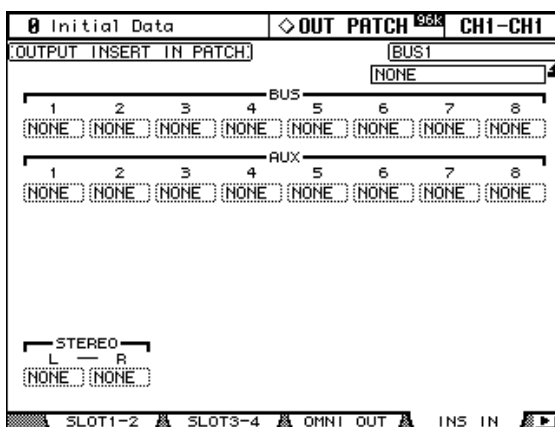
Bus Out, Aux Send, Stereo Out, Input Output Channel, Insert Out Surround Monitor
 Channel Omni Out . Omni Out Direct Out Destination
 Direct Out (56).



Omni Out Direct Out (56), Input Channel Routing
 Direct Out , Omni Out .

Output Channel Insert In

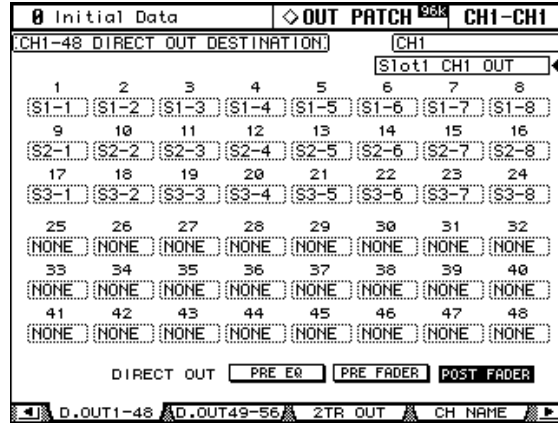
AD Input, Slot Input, effect 2TR
 Output Channel Insert In . Stereo Out



, , [SEL] 9-24 STEREO [SEL]

Direct Out

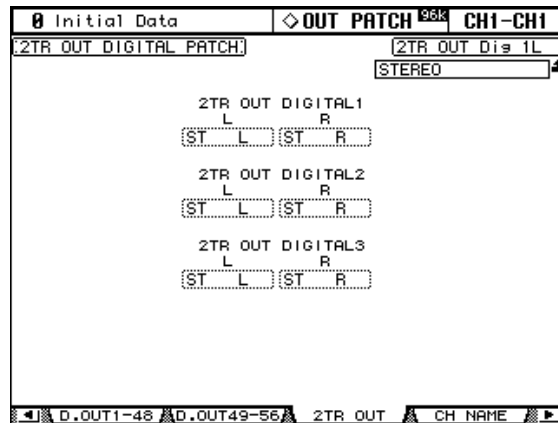
Direct Out Slot Output, Omni Out 2TR
 56 Input Channel Direct Out Destination
 Input Channel 1-48 Direct Out Destination



, LAYER [SEL]

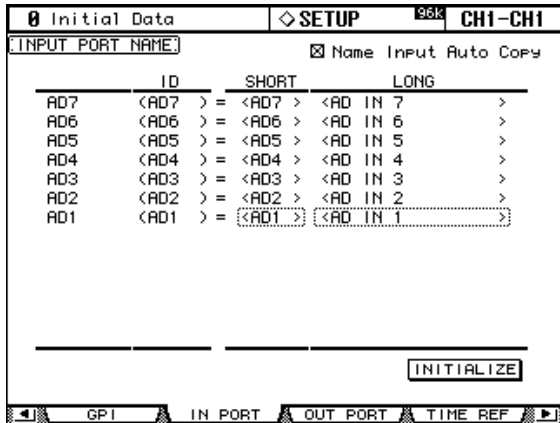
2TR

Bus Out, Aux Send, Stereo Out, Input Output Channel Insert Out Control Room
 2TR . 2TR Direct Out Destination
 Direct Out (56).

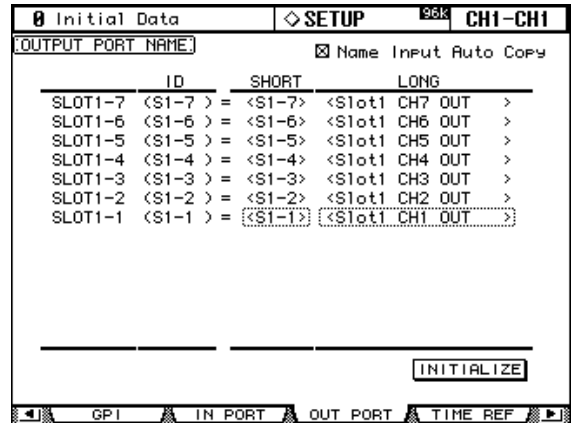


2TR Direct Out (56), Input Channel Routing
 Direct Out , 2TR

215
1 DISPLAY ACCESS [SETUP]



216
Input Port Name Output Port Name



2 INC/DEC

3

[ENTER]

Title Edit

OK

32

"Title Edit "

(Name Input Auto Copy)

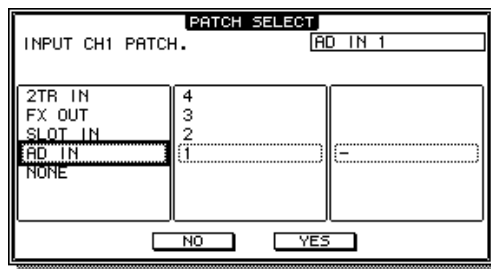
가

가

INITIALIZE

(Patch Select)

[ENTER]



가

INC/DEC

가

가

YES

[ENTER]

Encoder

	Encoder Out		Input Channel Input, Insert Out, Insert In, Direct
1	37	,	Encoder ASSIGN
2		가	ASSIGN
3	Encoder		, Encoder Push Switch
	Encoder	가	Encoder ,

7 Input Channel

Input Channel

AD Input, Slot Input, effect , 2TR , Bus Out
 Aux Send Input Channel 52
 "Input Channel "

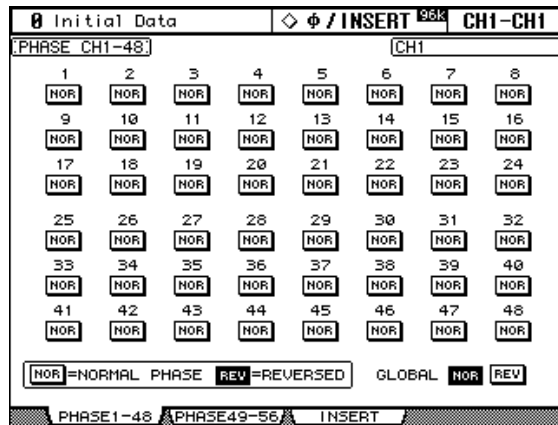
Input Channel

Meter " Input Channel 87
 " "

Input Channel

1 SELECTED CHANNEL DISPLAY ACCESS [PHASE/INSERT] (Phase)

56 Input Channel Input
 Channel 1-48



2 INC/DEC NOR/REV , [ENTER]

LAYER [SEL] NOR/REV
 GLOBAL NOR/REV: Input Channel

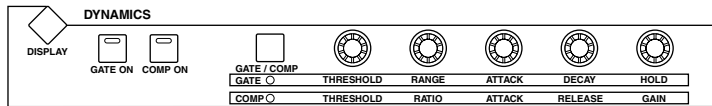
Input Channel

Input Channel Gate가 . 4
 88 Gate
 . 127 "Gate"
 gate
 gate 255

#			
1	Gate	GATE	Gate
2		DUCKING	
3	A. Dr. BD	GATE	Gate
4	A. Dr. SN	GATE	Gate

SELECTED CHANNEL DYNAMICS Control

- 1 LAYER , [SEL] Input Channel
- 2 [GATE ON] Input Channel Gate



- 3 [GATE/COMP] DYNAMICS control GATE (GATE indicator가), THRESHOLD, RANGE, ATTACK, DECAY HOLD control gate

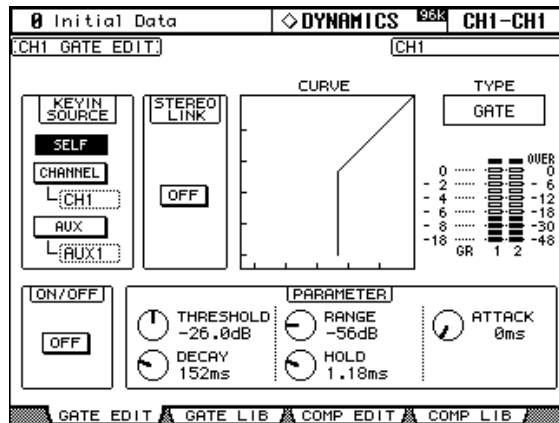
Gate Edit

Gate Edit Gate , DYNAMICS gate control
 , SELECTED CHANNEL DYNAMICS
 가

- 1 LAYER , [SEL] Input Channel
- 2 SELECTED CHANNEL DYNAMICS [DISPLAY] Gate
 , gate Gate
 127 "Gate"

3 SELECTED CHANNEL DYNAMICS [DISPLAY]

Gate Edit



4

INC/DEC , [ENTER]

KEYIN SOURCE: Input Channel Gate (trigger source)
 SELF(Gate), CHANNEL(Input Channel)
 Channel) AUX(1-8 Aux Send)가 Input Channel 12
 , Input Channel 1, 1-12 Input Channel
 , 13-24 Input Channel

STEREO LINK: Input Channel (paring), stereo Gate
 (paring) . Input Channel Gate Input Channel
 (Pair) (paring) 104 "
 (paring)" . Input Channel (paring), 가

CURVE: gate (,)
TYPE: Input Channel Gate gate .
 : Input Channel
 . GR Input Channel Gate

ON/OFF: Input Channel Gate . SELECTED CHANNEL
 DYNAMICS [GATE ON]

PARAMETER: (Threshold), (Range), (Attack), (Decay), (Hold)
 control .

Input Channel

Input Channel -EQ . 90 "

Input Channel

Input Channel 4 band EQ가 . 91
 "EQ "

Input Channel EQ

Input Channel EQ 가가 , Input Channel EQ . a, b, c, d 4 Input Channel EQ .

1 DISPLAY ACCESS [GROUP] Input Equalizer Link

Initial Data		GROUP	CH1-CH1																				
INPUT EQUALIZER LINK																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
a	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
c	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
a	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
c	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49	50	51	52	53	54	55	56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
a	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
c	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

2 LAYER

3 Up/Down EQ a-d 가

4 [SEL] Input Channel 가

가 가 Input Channel EQ 가 Input Channel Input Channel 가 , [SEL] indicator가 .

Input Channel Insert

Insert effect Input Channel 95 " " .

Input Channel

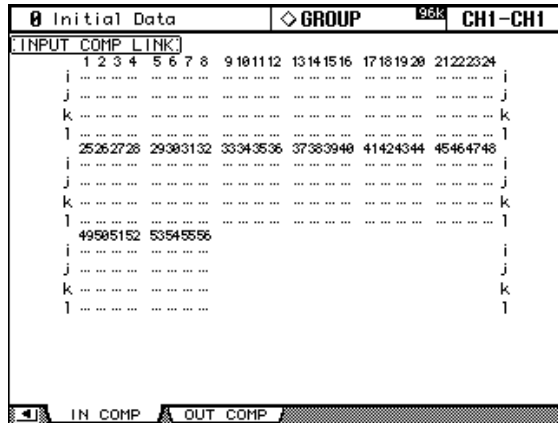
Input Channel compressor가 . 97 " "

Input Channel Compressor

Input Channel Compressor 가가 , Compressor control
 Input Channel compressor . i, j, k, l 4 Input
 Channel Compressor .

1 DISPLAY ACCESS [GROUP]

Input Comp Link



2 LAYER

3 Up/Down 가

Comp i-l

4 [SEL]

Input Channel

가

가 가 Input Channel Compressor 가 Input Channel
 Channel .
 Input Channel 가 , [SEL] indicator가 .
 Input Channel Compressor Stereo Link , Comp Input Channel
 가 .

Input Channel Delay

Input Channel Delay . 101 "
 Delay "

Input Channel (ON/OFF)

Input Channel

1 LAYER

2 [ON]

Input Channel

[ON] indicator가 .



Input Channel (Mute) (ON/OFF)

Input Channel 가가 , Input Channel
 . I, J, K, L, M, N, O, P 8 Input Channel

1 DISPLAY ACCESS [GROUP] Input Channel Mute Group

56 Input Channel
 Input Channel 1-48

Initial Data		GROUP	96k	CH1-CH1
MUTE GROUP CH1-48				
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24			ENABLE
I	.....	.....	.....	I
J	.....	.....	.....	J
K	.....	.....	.....	K
L	.....	.....	.....	L
M	.....	.....	.....	M
N	.....	.....	.....	N
O	.....	.....	.....	O
P	.....	.....	.....	P
	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48			ENABLE
I	.....	.....	.....	I
J	.....	.....	.....	J
K	.....	.....	.....	K
L	.....	.....	.....	L
M	.....	.....	.....	M
N	.....	.....	.....	N
O	.....	.....	.....	O
P	.....	.....	.....	P

2 LAYER

3 Up/Down I-P

가

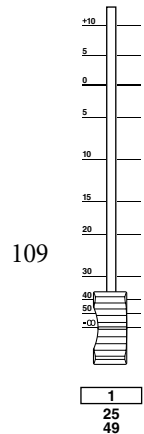
4 [SEL] 가

Input Channel 가 , [SEL] indicator가

ENABLE: 가

Input Channel

- Input Channel
- 1 LAYER
- 2 FADER MODE [FADER] Fader
- 3 fader Input Channel
- Input Channel fader
- Fader Fader View
- " fader "



Input Channel Fader

- Input Channel fader 가가 , Input Channel
- . A, B, C, D, E, F, G, H 8 Input Channel Fader
- 1 DISPLAY ACCESS [GROUP] Input Channel Fader Group
- 56 Input Channel Fader Group
- Input Channel 1-48 Fader Group

0 Initial Data		GROUP		96k		CH1-CH1																			
[FADER GROUP CH1-48]																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	ENABLE
A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A
B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B
C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C
D	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D
E	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E
F	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F
G	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G
H	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	ENABLE
A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A
B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B
C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C
D	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D
E	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E
F	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F
G	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G
H	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H

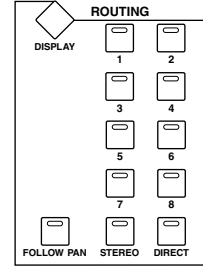
- 2 LAYER Fader Group
- 3 Up/Down Fader Group A-H
- 가
- 4 [SEL] fader 가
- Input Channel 가 , [SEL] indicator가
- ENABLE. 가
- fader [SEL] fader
- , Fader Group fader
- Fader Group Fader (, FADER MODE [FADER] indicator가
-). 35 "Fader"

Input Channel

Input Channel Bus Out, Stereo Out Direct Out (routing)

SELECTED CHANNEL ROUTING control

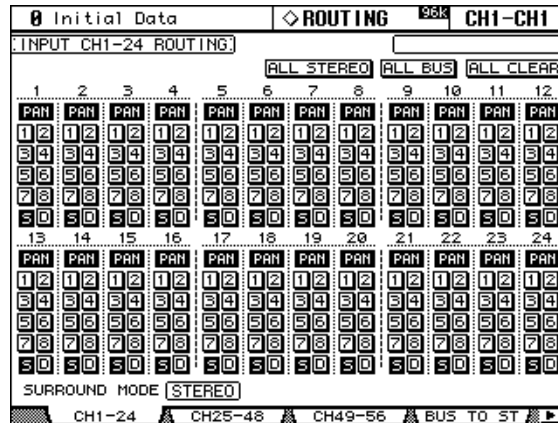
- 1 **LAYER** , [SEL] **Input**
Channel
- 2 **[1-8], [STEREO] [DIRECT]** **Input**
Channel
[1-8]: Input Channel Bus Out
[STEREO]: Input Channel Stereo Out
DIRECT: Input Channel Direct Out
[FOLLOW PAN]: Input Channel Pan control Bus Out
 , Bus Out Bus Out
 , Bus Out Pan control



Routing

Input Channel Routing ,
 ROUTING , SELECTED CHANNEL ROUTING
 가 197 "Auto"
 ROUTING Display"

- 1 **SELECTED CHANNEL ROUTING [DISPLAY]** **Routing**
 56 Input Channel Routing
 Input Channel 1-24 Routing



- 2 , [ENTER] INC/DEC

LAYER [SEL]
ALL STEREO: Input Channel Stereo Out
ALL BUS: Input Channel Bus Out
ALL CLEAR:

Surround 가 , Stereo
 , Bus Out 1 8 , Surround Pan
 , Surround Channel 69
 "Surround Pan "

Surround	Bus Out							
	1	2	3	4	5	6	7	8
Stereo	1	2	3	4	5	6	7	8
3-1	L	R	C	S	5	6	7	8
5.1	L	R	Ls	Rs	C	E ¹	7	8

1. LFE(Low frequency Effects)

Input Channel

Input Channel Stereo Out

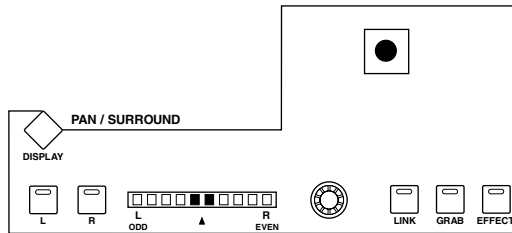
Encoder

- 1 LAYER
- 2 ENCODER MODE [PAN] Pan Encoder
- 3 Encoder Input Channel



SELECTED CHANNEL PAN/SURROUND control

- 1 LAYER , [SEL] Input Channel



- 2 Pan control Input Channel

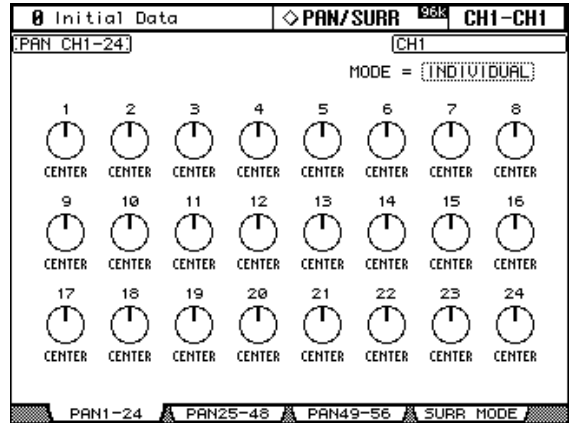
Pan Input Channel pan 가 . pan
 가 . [L] [R]
 Input Channel
 [LINK] Stereo가 Surround , Pan control

Input Channel , [EFFECT] indicator
 [GRAB] [LINK] indicator

Pan

Pan pan , PAN/SURROUND
 , SELECTED CHANNEL PAN/SURROUND control
 가 . [LINK] [GRAB] indicator가
 가 . 197
 "Auto PAN/SURROUND Display"

- 1 **SELECTED CHANNEL PAN/SURROUND [DISPLAY]** **Input Channel**
Pan
 56 Input Channel Pan Input
 Channel 1-24 Pan

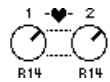


- 2 **Pan control** , **INC/DEC**

LAYER [SEL] Pan
 [ENTER] Pan control
MODE: (pairing) Input Channel
 Pan Individual, Gang, Inverse Gang 3가 (pairing)
 Input Channel



(pairing) Input Channel pan control



Gang (pairing) Input Channel pan control



Inverse Gang (pairing) Input Channel pan control

Aux Send Pan control Input Channel Pan control , Input Channel Pan control
 Aux Send Pan control 가 (84
). , Aux Pan Input Channel Pan Pan

Surround Pan

02R96 3-1 5.1 Surround . Surround pan .
 Stereo Out Input Channel ,
 Surround Surround (, Bus Out) Input Channel
 Bus Out Surround .

Surround	Bus Out					
	1	2	3	4	5	6
3-1				Surround	-	-
5.1			Surround	Surround		LFE

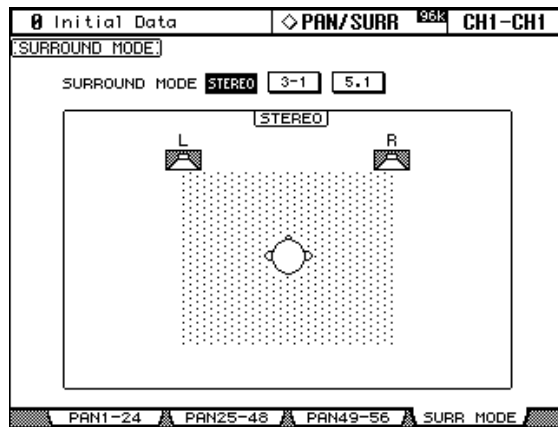
Surround 116

Surround Pan

Surround

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY]

Surround Mode



2

surround mode

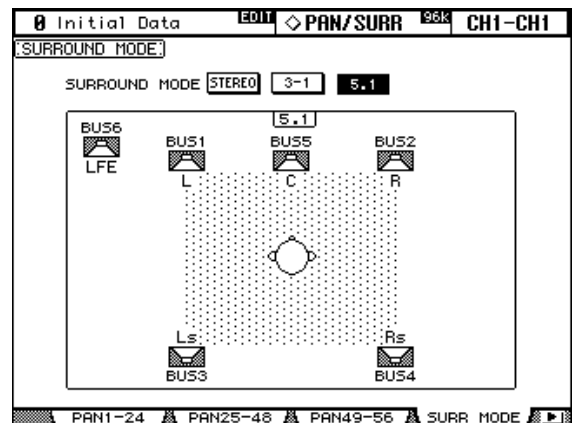
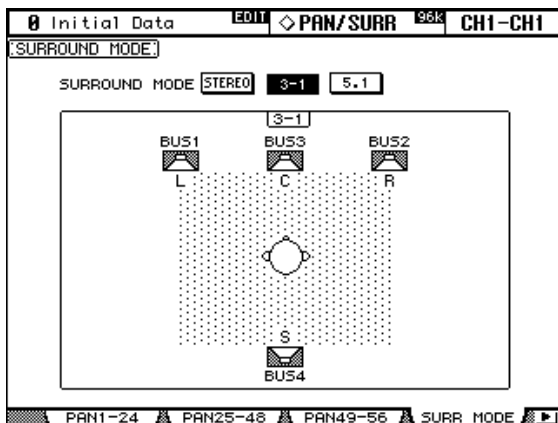
[ENTER]

3-1 Surround

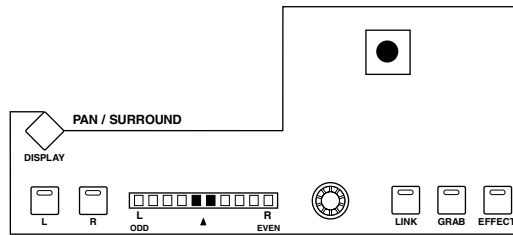
5.1

Surround

Bus Out



1 LAYER , [SEL] Input Channel



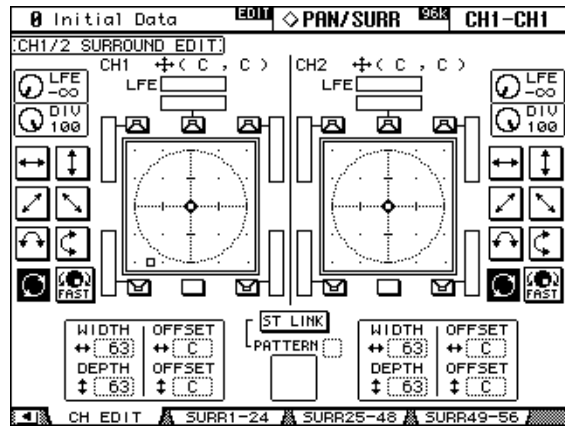
2 [GRAB] surround pan

[GRAB] Stereo가 Surround 가 ,
 Input Channel surround pan control
 , Input Channel surround pan
 effect (, [EFFECT] indicator가
), [GRAB]

Channel Surround Edit

Input Channel Surround Edit surround pan ,
 PAN/SURROUND 가 , Stereo가 Surround Pan 가
 , [EFFECT] PAN/SURROUND control 가
 197 "Auto PAN/SURROUND Display"

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY] Surround Edit



2 LAYER , [SEL] Input Channel

Surround Edit Input Channel
 surround pan . Input Channel surround pan
 "CH1 (L9, R10)" Input Channel
 Input Channel
 (198) , surround
 pan , surround pan control
 surround Surround
 Bus Out

[ENTER]

, surround pan

3 , **INC/DEC** , [ENTER]

LFE: LFE(Low Frequency Effects) (5.1)

DIV(): , , .0

가 , 가 (,가) .50

가 , , .100 ,

(,)

: **INC/DEC** surround pan 7가

FAST: **INC/DEC** surround pan control

WIDTH:

DEPTH:

WIDTH OFFSET:

DEPTH OFFSET:

ST LINK: (pairing) Input Channel

surround pan

PATTERN: Input Channel 7가

surround pan **INC/DEC**

Input Channel Surround

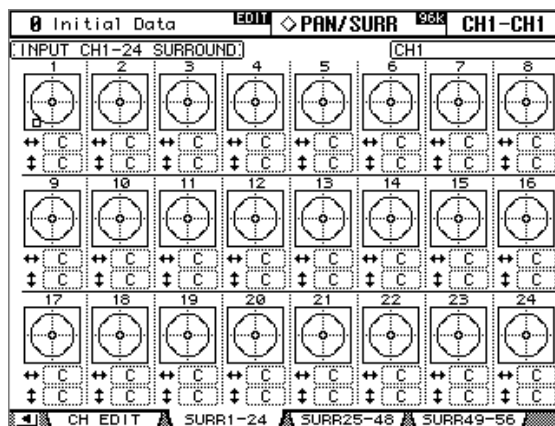
Surround surround pan

1 SELECTED CHANNEL PAN/SURROUND [DISPLAY] Surround

Input Channel

56 Input Channel Surround

Input Channel 1-24 Surround



2 Surround INC/DEC

LAYER [SEL] Input Channel Input

Channel ,

L/R: / surround
 , [ENTER]
 F/R: / surround
 [ENTER]
 Input Channel surround [ENTER]
 Surround Edit

Aux Send Input Channel

Input Channel Aux Send 1-8 80
 "Aux Send " 79 "pre-Fader post-Fader Aux Send"

Input Channel

Input Channel 102

Direct Out

Input Channel Direct Out Slot Output, Omni Out 2TR
 Direct Out pre-EQ, -fader post-fader 가
 56 "Direct Out " 66 "Input Channel "

Input Channel (pairing)

Input Channel stereo (pairing)
 104 " (pairing) "

MS

Input Channel (pairing) , MS MS (pair)
 MS Input Channel Pair
 104 " (pairing) "

Input Channel

View Input Channel fader
 108 " " 109 " fader
 "

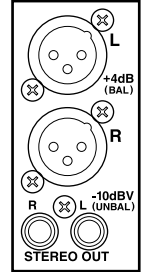
Input Channel

Input Channel 112
 " "

8 Stereo Out

Stereo Out Connector

Stereo Out STEREO OUT +4 dB (BAL) XLR 3-32 connector
 STEREO OUT -10 dBV (UNBAL) RCA PIN



Stereo Out

Stereo Out Slot Output, Omni Out 2TR
 54 " "

Stereo Out Input Channel

Input Channel Stereo Out 66
 "Input Channel "

Stereo Out Bus Out

Bus Out Stereo Out 78 "Stereo
 Out Bus Out "

Stereo Out

Meter Stereo Out 87
 " "

Stereo Out

CONTROL ROOM MONITOR OUT PHONES(114) STUDIO
 MONITOR OUT(115) Stereo Out

Stereo Out

Stereo Out - EQ 90 "
 "

Stereo Out EQ

Stereo Out 4 band EQ가 91 "EQ
 "

EQ

Stereo Out EQ Output Channel EQ
 94 "Output Channel EQ "

Stereo Out Insert

Insert effect " " Stereo Out
 95 " "


Stereo Out

Stereo Out Compressor
 97 " "

Compressor

Stereo Out Compressor Output Channel Compressor
 100 "Output Channel Compressor "

Stereo Out (ON/OFF)

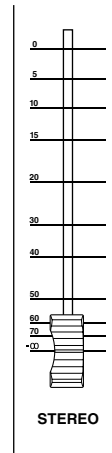
 STEREO [ON] Stereo Out
 ON indicator가 Stereo Out

(ON/OFF)

Stereo Out Output Channel
 107 "Output Channel (ON/OFF)"

Stereo Out

Stereo Out STEREO fader fader
 Layer Fader



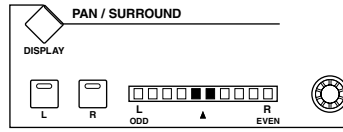
Fader

Stereo Out fader Output Channel fader
 106 "Output Channel fader "

Stereo Out (balancing)

Stereo Out
1 STEREO [SEL]

Stereo Out



2 Pan control

pan
 가 . [ENTER]

Stereo Out Stereo Fader View
 109 " fader "

Stereo Out Delay

Stereo Out Delay Stereo Out delay
 101 " Delay"

Stereo Out

Stereo Out fader View ,
 108 " 109 " fader
 "

Stereo Out

" Stereo Out . 112
 "

9 Bus Out

Bus Out

Bus Out Slot Output, Omni Out 2TR
54 " "

Bus Out Input Channel

Bus Out Input Channel . 66 "Input
Channel "

Bus Out

Meter Bus Out . 87
" "

Bus Out

CONTROL ROOM [ASSIGN 1] [ASSIGN 2] Bus Out
114 "Control Room "

Bus Out

Bus Out -EQ . 90 "
"

Bus Out EQ

Bus Out 4 band EQ가 . 91 "EQ
"

EQ

Bus Out EQ Output Channel EQ .
94 "Output Channel EQ "

Bus Out Insert

Insert effect Bus Out
95 " "

Bus Out

Bus Out Compressor .
97 " "

Compressor

Bus Out Compressor Output Channel Compressor .
100 "Output Channel Compressor "

Bus Out (ON/OFF)

- Channel strip [ON] Bus Out
- 1 **LAYER [MASTER]** Master Layer
- 2 **Channel strip [ON]** 17-24 **Bus Out**



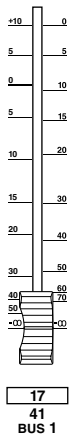
Bus Out [ON] indicator

(ON/OFF)

Bus Out Output Channel
 107 "Output Channel (ON/OFF)"

Bus Out

- Bus Out
- 1 **LAYER [MASTER]**
- 2 **FADER MODE [FADER]** Fader
- 3 **Fader 17-24** Bus Out
- Bus Out fader



Fader

Bus Out fader Output Channel fader
 106 "Output Channel fader"

Bus Out Delay

Bus Out Delay 101 "Delay"

Bus Out

Bus Out 102

Bus Out

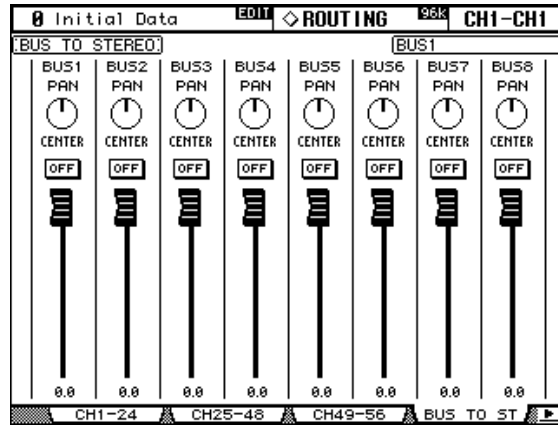
Stereo Bus Out (pairing) 104
 " (pairing)"

Stereo Out Bus Out

Bus Out Stereo Out Bus Out Stereo Out
 1 32 Bus to Stereo
 126 "Bus to Stereo"

1 SELECTED CHANNEL ROUTING [DISPLAY]

Bus to Stereo



2

INC/DEC , [ENTER]

PAN: Stereo Out Bus Out control
 [ENTER] Pan control
ON/OFF: Stereo Out Bus Out on/off
Fader: Bus Out Stereo Out fader . Fader 0.0 dB
 fader knob

Bus Out

Bus Out fader View ,
 108 " 109 " fader

Bus Out

Bus Out . 112
 " "

10 Aux Send

Aux Send Master

Aux Send Master Slot Output, Omni Out 2TR
54 " "

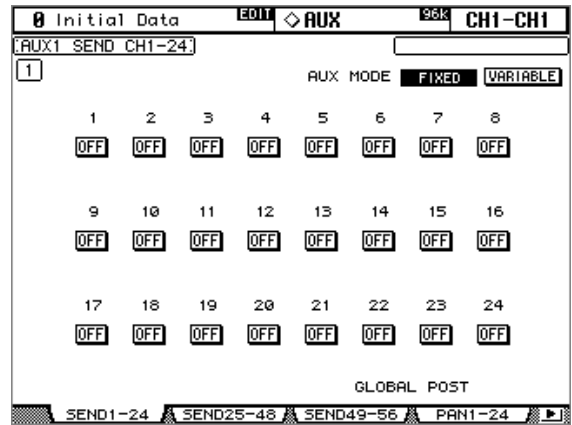
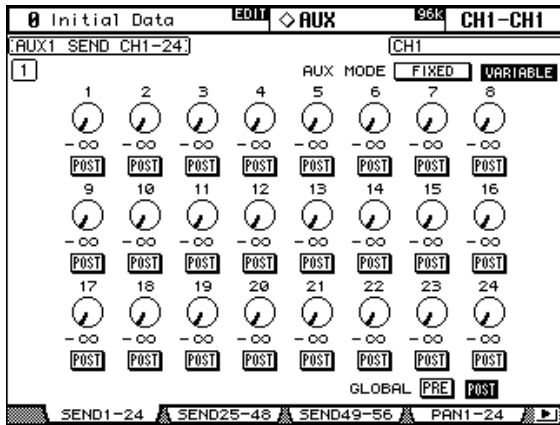
Aux Send

Aux Send Variable Fixed, 2가 가 , 8 Aux Send
. Variable , Aux Send 가
pre-fader post-fader 가 . Fixed , Aux
Send , post-fader .

1 AUX SELECT [DISPLAY]

Aux Send

Input Channel 56 Aux Send
Input Channel 1-24 Aux Send , Variable , Fixed



Fixed "GLOBAL POST" Aux Send pre/post 가
post .

2 AUX SELECT [1-8]

Aux Send 1-8

3 FIXED VARIABLE , [ENTER]

Aux , Aux Send .

	Variable	Fixed	Fixed	Variable
				-8
pre/post	post			
On/Off	off		on	

pre-Fader post-Fader Aux Send

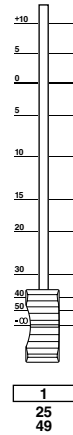
Aux Send Aux Send (80) Aux View (83)
pre-fader post-fader .

Aux Send

Fader Encoder Aux Send

Fader

- 1 LAYER
- 2 FADER MODE [AUX] Aux Fader
- 3 AUX SELECT [1-8] Aux Send 1-8
- 4 fader Aux Send
Aux Send fader



Encoder

- 1 LAYER
- 2 ENCODER MODE [AUX] Aux Encoder
- 3 AUX SELECT [1-8] Aux Send 1-8
- 4 Encoder Aux Send



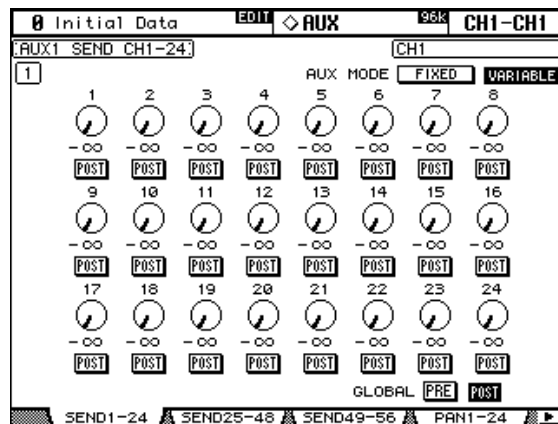
Aux Send

Aux Send Input Channel Aux Send
. Aux Send Variable Fixed

Variable

Variable Aux 79

- 1 AUX SELECT [DISPLAY] Aux Send
Input Channel 56 Aux Send
Input Channel 1-24 Aux Send Variable

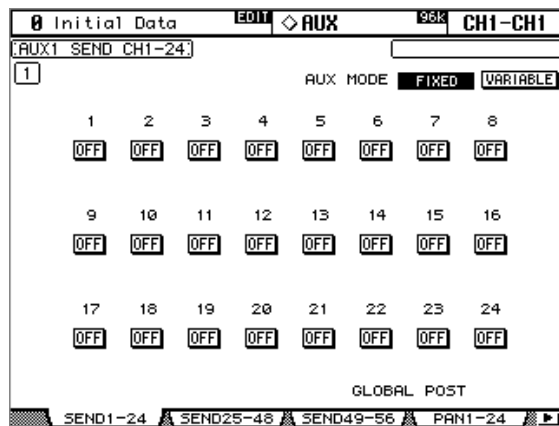


- 2 **AUX SELECT [1-8]** **Aux Send 1-8**
- 3 **Input Channel Aux Send control**
- LAYER [SEL] Input Channel
- 4 **Aux Send , rotary control [ENTER]**
- Aux Send rotary control , "OFF"
- . off Aux Send
- 5 **Aux Send , rotary control INC/DEC**
- 6 **pre/post INC/DEC , PRE/POST [ENTER]**
- 7 **Aux Send Input Channel pre-fader post-fader**
- , GLOBAL PRE POST [ENTER]**
- PRE POST , pre/post
- , Input Channel pre-fader post-fader

Fixed

Fixed Aux 79

- 1 **AUX SELECT [DISPLAY] Aux Send**
- Input Channel 1-24 Aux Send Fixed Fixed
- Aux Send



- 2 **AUX SELECT [1-8] Aux Send 1-8**
- 3 **Aux Send**
- LAYER [SEL] Input Channel
- 4 **[ENTER] INC/DEC Aux Send**
- Fader Aux , fader Aux Send Input Channel
- On/Off , Aux Send , fader
- , Aux Send , On/Off fader

Aux Send

Aux View , Aux Send , . Level
pre/post

Level

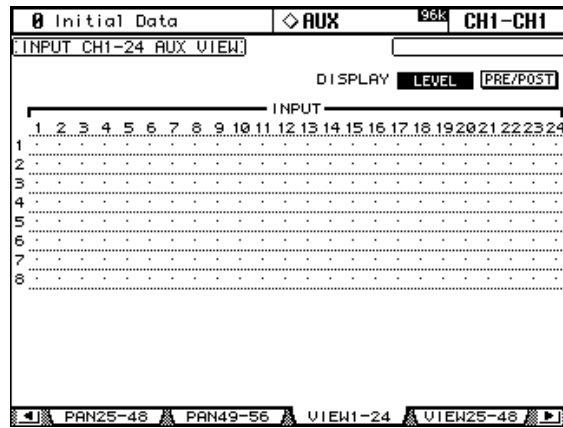
Level , Aux View Aux Send On/Off 가 .
Fixed Aux Send On/Off 가 .

1 **AUX SELECT [DISPLAY]** Aux View .

2 **DISPLAY LEVEL** , [ENTER] .

Input Channel 56 Aux View .

Input Channel 1-24 Aux View Level .



3 **Input Channel Aux Send** .

Input Channel Layer [SEL] Input Channel . AUX
SELECT [1-8] Aux Send .

4 **INC/DEC** Aux Send .

5 **[ENTER]** Aux Send .
Aux View indicator .
-8 , Fixed Aux Send off



□ off



■ off,

■ Fixed Aux Send off .

Variable Aux , Aux Send On/Off
"LEVEL:-2.0 dB ON/OFF:ON" .

Fixed Aux , Aux Send On/Off
"LEVEL:FIXED ON/OFF:ON" .

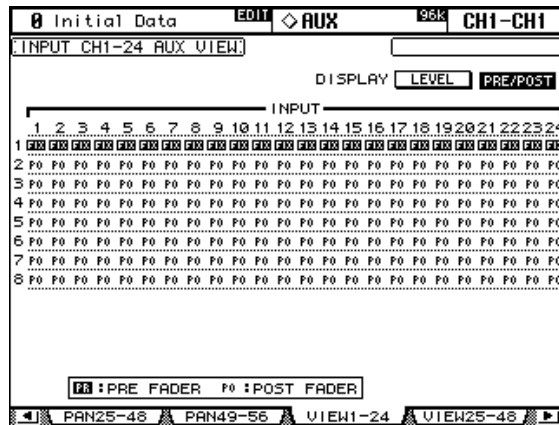
pre/post

Pre/Post , Aux View Aux Send pre/post 가 . Fixed
 Aux Send On/Off 가 .

1 AUX SELECT [DISPLAY] Aux View

2 DISPLAY PRE/POST , [ENTER]

Input Channel 1-24 Aux View Pre/Post . Pre/Post
 Aux View .



3 Input Channel Aux Send

LAYER [SEL] Input Channel . AUX SELECT [1-8]
 Aux Send .

4 [ENTER] INC/DEC Aux Send pre-fader
post-fader

Aux View indicator .

PR Aux Send pre-fader

PO Aux Send post-fader

FX Fixed Aux Send

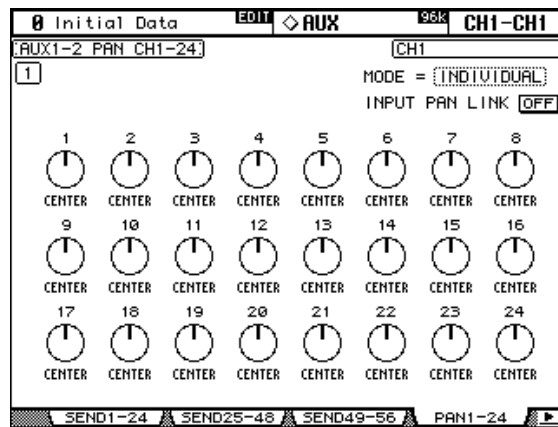
Fixed Aux Send [ENTER] INC/DEC .

Aux Send

Aux Send가 (pairing) , Aux Aux Send
 . 104 " (pairing)" . Aux
 Send가 , "AUXx-x are not paired(AUXx-x)")"
 가 .
 Aux Send Master (pair)가 Output Pair Follow Surround
 , Aux Send Input Channel Surround Pan
 . "Now AUXx-x PAN Following Surround(AUXx-x)")"
 가 . 86 "Aux Send (pairing)"

1 AUX SELECT [DISPLAY] Aux Pan

Input Channel 56 Aux Pan
 Input Channel 1-24 Aux Pan



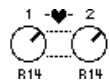
2 AUX SELECT [1-8] Aux Send 1-8


3 Input Channel Aux Send Pan control

INC/DEC

LAYER [SEL] Input Channel
 [ENTER] Pan control
MODE: (pairing) Aux Send Pan Individual,
 Gang, Inverse Gang 3가 Aux Send Master

 Individual , Aux Send Pan control

 Gang , (pairing) Input Channel Aux Send Pan control

 Inverse Gang , (pairing) Input Channel Aux Send Pan control

INPUT PAN LINK: Aux Send Pan control Input Channel Pan control , Input Channel Pan control
 Aux Send Pan control
 가 . Aux Send Master
 , Input Channel pan Pan 가 Aux Send Pan
 , Aux Pan Input Channel Pan
 Pan (60) .

Aux Send Master

Meter Aux Send Master . 87
 " " .

Aux Send Master

CONTROL ROOM [ASSIGN 1] [ASSIGN 2] Aux Send Master
 . 114 "Control Room "
 . Aux 11 Aux 12 STUDIO MONITOR OUT (115
).

Aux Send Master

Aux Send Master pre-EQ . 90 "
 " .

Aux Send Master EQ

Aux Send Master 4-band EQ가 . 91
 "EQ " .

Master EQ

Aux Send Master EQ Output Channel EQ .
 94 "Output Channel EQ " .

Aux Send Master Insert

Insert effect 95 " " Aux Send Master


Aux Send Master

Aux Send Master Compressor .
 97 " "

Master Compressor

Aux Send Master Compressor Output Channel Compressor .
 . 100 "Output Channel Compressor " .

Aux Send Master (ON/OFF)

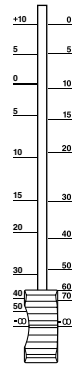
- Aux Send Master
- 1 LAYER [MASTER] Master .
 - 2 Channel strip [ON] 9-16 Aux Send Master .
-  Aux Send Master [ON] indicator가 .

Master (ON/OFF)

Aux Send Master Output Channel .
 107 "Output Channel (ON/OFF)" .

Aux Send Master

	Aux Send Master		
1	LAYER [MASTER]	Master	.
2	FADER MODE [FADER]	Fader	.
3	fader 9-16	Aux Send Master	.
	Aux Send Master	fader	.



9
33
AUX 1

Master Fader

Aux Send Master Fader	Output Channel	fader	.
106	"Output Channel fader	"	.

Aux Send Master Delay

Aux Send Master	Delay	.	101	"
Delay"	.	.	.	.

Aux Send

Aux Send	.	102	.
----------	---	-----	---

Aux Send (pairing)

Stereo	Aux Send	(pairing)	.	104
"	(pairing)"	.	.	.

Aux Send Master

View	Aux Send Master	fader	.	.
.	108	"	"	109
fader	"	.	.	.

Aux Send Master

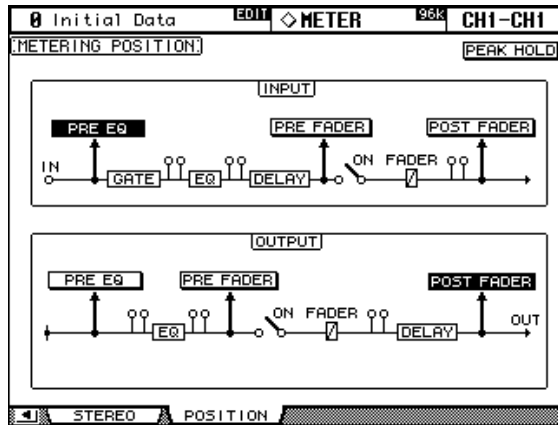
"	Aux Send Master	.	112
"	"	.	.

11

Meter , Input Channel, Bus Out, Aux Send, Stereo Out, effect
 DISPLAY ACCESS [METER]

Input Output Channel Meter fader
 (Peak Hold) Meter

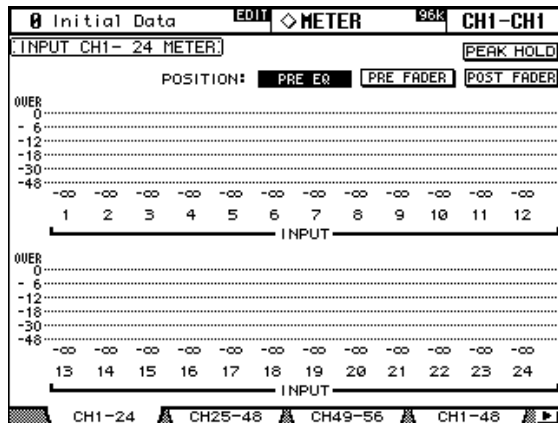
Input Output Channel pre-EQ, pre-fader post-fader
 Input Output Channel
 (Metering Position) Input Output Channel Meter

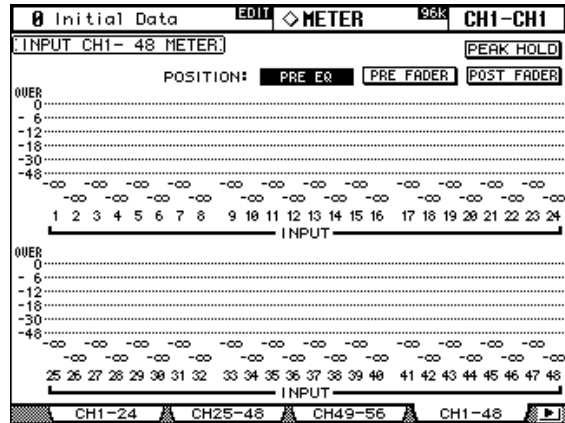


PRE EQ: pre-EQ
PRE FADER: pre-fader
POST FADER: post-fader

Input Channel

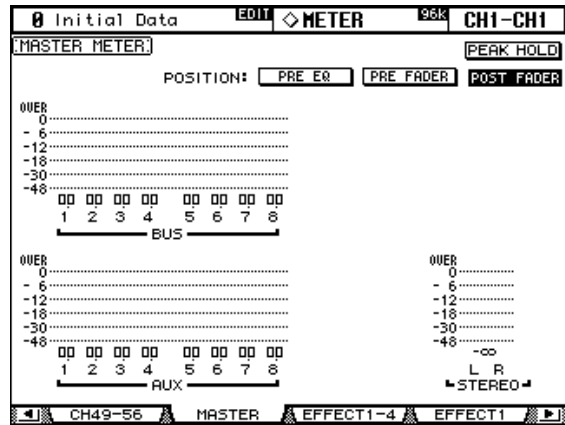
Input Channel 24 48 , 가
 24 Input Channel 1-24
 가 . Input Channel (pairing)
 . Input Channel ,





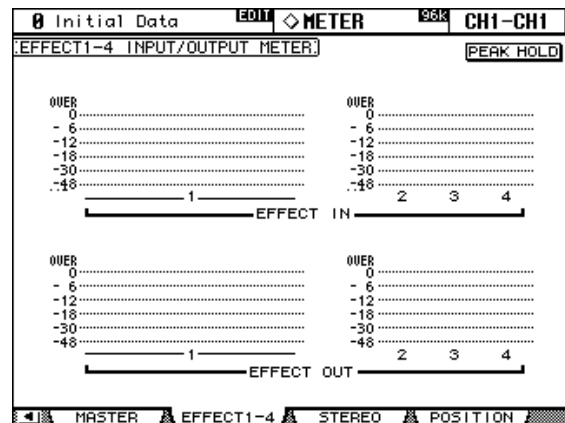
Output Channel

Bus Out, Aux Send, Stereo Out Master Meter



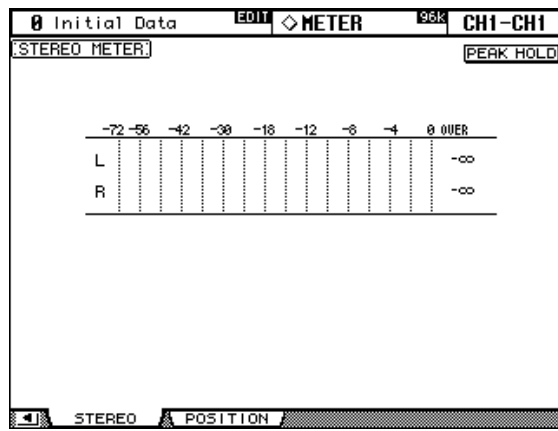
Effect

effect 가 , effect 1-4 2 가 , effect 1 8



Stereo Out

Stereo Out Stereo Meter



Input Channel, Bus Out, Aux Send, Stereo Out
pre-EQ attenuation

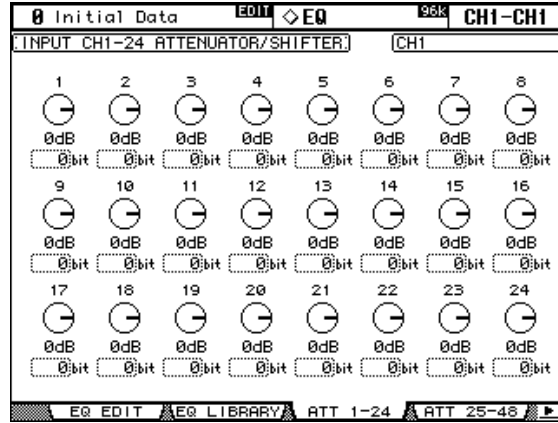
" (hot)"

1 EQUALIZER [DISPLAY]

Attenuator

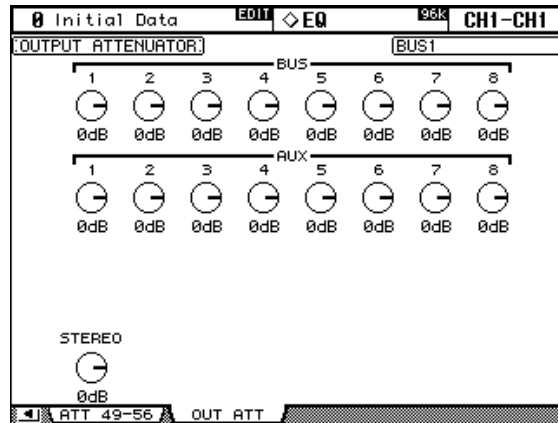
56 Input Channel attenuator
Channel 1-24 Attenuator/Shifter

Input



Output Channel attenuator

Output Attenuator



2

INC/DEC

attenuation

LAYER [SEL]

Input Channel

Output Channel

[ENTER]

Input Channel

Output Channel

attenuation

Input Channel

Output Channel

Input Channel attenuation

+2

-24

가

INC/DEC

attenuator

EQ

Input Channel, Bus Out, Aux Send, Stereo Out 4 band EQ가
 . LOW-MID HIGH-MID . LOW HIGH
 (shelving), , HPF LPF .40
 160 EQ EQ
 129 "EQ "

EQ

EQ

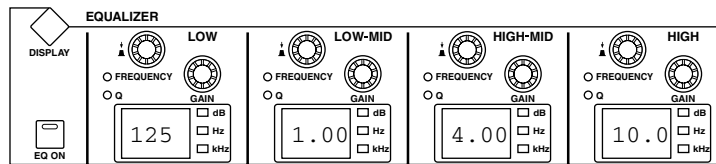
251

#		
1	Bass Drum 1	가
2	Bass Drum 2	80 Hz
3	Snare Drum 1	" 가 (rimshot)
4	Snare Drum 2	
5	Tom-tom 1	"가 "
6	Cymbal	" "
7	High Hat	
8	Percussion	, , 가 가
9	E. Bass 1	
10	E. Bass 2	9
11	Syn.Bass 1	
12	Syn.Bass 2	
13	Piano 1	
14	Piano 2	compressor
15	E. G. Clean	(hard)
16	E. G. Crunch 1	
17	E. G. Crunch 2	16
18	E. G. Dist. 1	
19	E. G. Dist. 2	18
20	A. G. Stroke 1	
21	A. G. Stroke 2	20
22	A. G. Arpeg. 1	
23	A. G. Arpeg. 2	22
24	Brass Sec.	HIGH HIGH-MID
25	Male Vocal 1	EQ HIGH HIGH-MID
26	Male Vocal 2	25
27	Female Vo. 1	EQ HIGH HIGH-MID
28	Female Vo. 2	27
29	Chorus&Harmo	EQ
30	Total EQ 1	stereo . compressor 가
31	Total EQ 2	30
32	Total EQ 3	30 (pairing) Input Channel Output Channel

#			
33	Bass Drum 3	1	,
34	Snare Drum 3	3	,
35	Tom-tom 2	5	,
36	Piano 3	13	
37	Piano Low	stereo	.
38	Piano High	stereo	.
39	Fine-EQ Cass		가 .
40	Narrator		.

SELECTED CHANNEL EQUALIZER Control

1 **LAYER** , [SEL]



- 2 [EQ ON] EQ
- 3 **GAIN control** band
 GAIN control , EQ dB . 2
 GAIN control , EQ
- 4 , **FREQUENCY/Q control** **FREQUENCY indicator**
 , **FREQUENCY/Q control**
 EQ 가
- 5 **Q** , **FREQUENCY/Q control** **Q indicator** , **FREQUENCY/Q control**
 EQ Q . 2 Q control , EQ
 control , **FREQUENCY/Q control**
 control , LOW HIGH **FREQUENCY/Q control**
 EQ

	LOW	LOW-MID	HIGH-MID	HIGH
	-18.0 dB ~ +18.0 dB(0.1 dB) ¹			
	21.1 Hz ~ 20.0 kHz(1/12 120)			
Q	HPF, 10.0 ~ 0.10(41) , L.SHELF	10.0 ~ 0.10(41)		LPF, 10.0 ~ 0.10(41) , H.SHELF

1. Q HPF LPF , LOW HIGH GAIN control on/off control

EQ

	LOW	LOW-MID	HIGH-MID	HIGH
	0 dB			
	125 Hz	1.00 kHz	4.00 kHz	10.0 kHz
Q	L.SHELF	0.70		H.SHELF

EQ Edit

EQ

EQ Edit

EQUALIZER

, SELECTED CHANNEL EQUALIZER

control

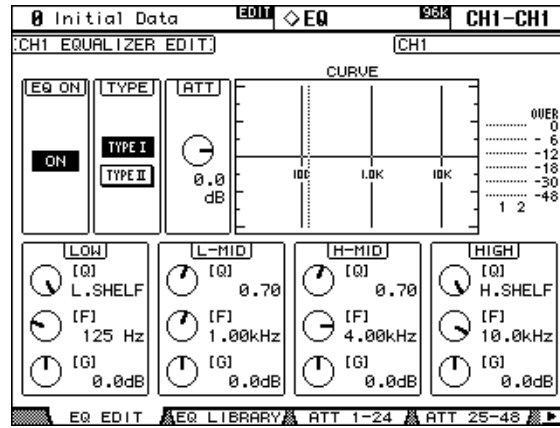
가

197

"Auto EQUALIZER Display"

1 EQUALIZER [DISPLAY]

EQ Edit



2 LAYER

, [SEL]

3

INC/DEC

EQ ON: EQ

가

, TYPE

가

, [ENTER]

EQ

TYPE: EQ

,

TYPE I(Yamaha

EQ)

TYPE II()

ATT: pre-EQ

. Attenuator

Attenuator

90

"

"

CURVE:

Input Channel EQ

:

Input Channel

LOW, L-MID, H-MID, HIGH: 4가 band

Q,

(F)

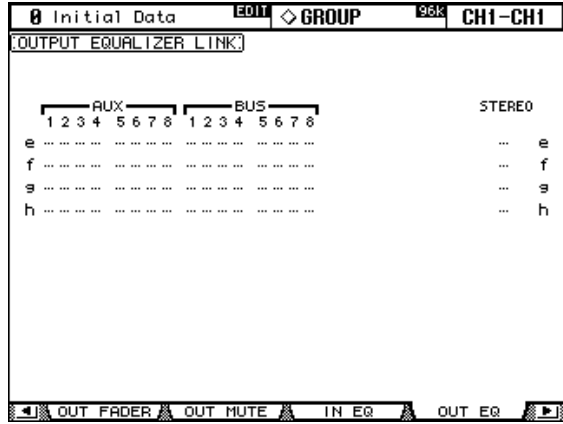
(G)

Output Channel EQ

Bus Out, Aux Send, Stereo Out EQ, Output Channel EQ e, f, g, h

1 DISPLAY ACCESS [GROUP]

Output Equalizer Link



2 LAYER [MASTER]

3 Up/Down 가

EQ e-h

4 [SEL]

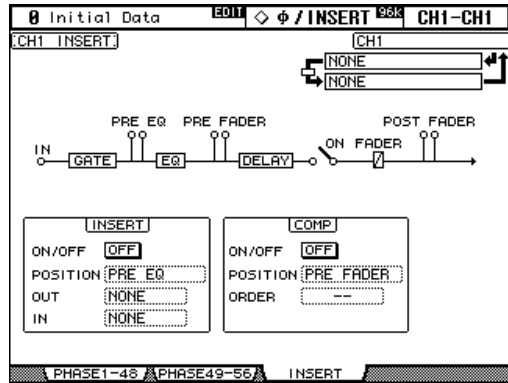
Output Channel

가

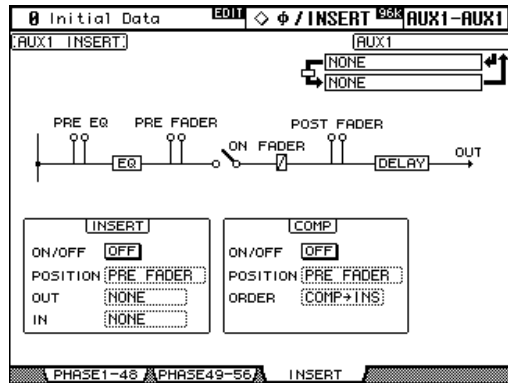
가 Output Channel EQ 가 Output Channel 가, [SEL] indicator가

Input Channel, Bus Out, Aux Send, Stereo Out 가 Insert가
1 SELECTED CHANNEL DISPLAY ACCESS [PHASE/INSERT] Insert

Input Channel Insert



Bus Out, Aux Send Stereo Out Insert



- 2 LAYER , [SEL]
- 3 , INC/DEC , [ENTER]

INSERT ON/OFF: Insert
INSERT POSITION: Insert , pre-EQ, pre-fader post-fader

INSERT OUT: Insert Out effect , Slot Output, Omni Out, 2TR
 204 208 . Input Output Patch ID가

(Patch Select) (57)
 [ENTER] . Insert Out Output Patch

INSERT IN: Insert In , AD Input, Slot Input, 2TR
 effect , Input Channel Insert In
 204 , Output Channel Insert In 208
 ID가

(Patch Select) (57)
 [ENTER]

Insert In Input Channel Insert In Patch
 55 "Output Channel Insert In"

COMP ON/OFF: Compressor . SELECTED CHANNEL
DYNAMICS [COMP ON] , Comp Edit ON/OFF
. 97 " "

COMP POSITION: Compressor , pre-EQ, pre-fader
post-fader . Comp Edit POSITION
. 97 " "

COMP ORDER: Insert Compressor (, INSERT
POSITION COMP POSITION), Insert
Compressor Comp->Ins Ins->Comp .
Y56K effect effect , EFFECTS/
PLUG-INS [CHANNEL INSERTS] , EFFECTS/PLUG-INS [1-4]
indicator가 , effect 가 .Y56K
, [PLUG-INS] indicator . effect
, [INTERNAL EFFECTS] indicator .
effect , 가 .

Input Channel, Bus Out, Aux Send, Stereo Out compressor가 . 36
 88 compressor
 128 "Comp "

Comp

Comp . 255

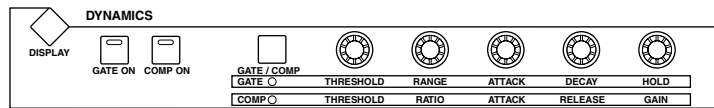
#			
1	Comp	COMP	compressor stereo Output Channel (pairing) Input Channel
2	Expand	EXPAND	expander
3	Compander(H)	COMPAND-H	- compressor
4	Compander(S)	COMPAND-S	- compressor
5	A. Dr. BD	COMP	compressor
6	A. Dr. BD	COMPAND-H	- compander
7	A. Dr. SN	COMP	compressor
8	A. Dr. SN	EXPAND	expander
9	A. Dr. SN	COMPAND-S	- compander
10	A. Dr. Tom	EXPAND	expander ,
11	A. Dr. OverTop	COMPAND-S	- compander
12	E. B. Finger	COMP	가 compressor
13	E. B. Slap	COMP	compressor
14	Syn.	COMP	compressor
15	Piano1	COMP	compressor
16	Piano2	COMP	15 ,
17	E. Guitar	COMP	(cutting) compressor
18	A. Guitar	COMP	(stroke) compressor
19	Strings1	COMP	compressor
20	Strings2	COMP	19 ,
21	Strings3	COMP	20 ,
22	BrassSection	COMP	compressor
23	Syn.Pad	COMP	compressor ,
24	SamplingPerc	COMPAND-S	compressor
25	Sampling BD	COMP	24 ,
26	Sampling SN	COMP	25 ,
27	Hip Comp	COMPAND-S	26 , (loop) (phrase)
28	Solo Vocal1	COMP	compressor
29	Solo Vocal2	COMP	28

#			
30	Chorus	COMP	28 , .
31	Click Erase	EXPAND	가 (click track) expander
32	Announcer	COMPAND-H	가 - compander
33	Limiter1	COMPAND-S	가 - compander
34	Limiter2	COMP	" - " compressor
35	Total Comp1	COMP	compressor stereo output (pairing) Input Channel Output Channel .
36	Total Comp2	COMP	35 , 가 .

SELECTED CHANNEL DYNAMICS Control

1 LAYER , [SEL]

2 SELECTED CHANNEL DYNAMICS [COMP ON]
compressor



3 SELECTED CHANNEL DYNAMICS [GATE/COMP] DYNAMICS control
COMP (COMP indicator가), THRESHOLD, RATIO, ATTACK,
RELEASE GAIN control compressor
Output Channel , [GATE/COMP] COMP

Comp Edit

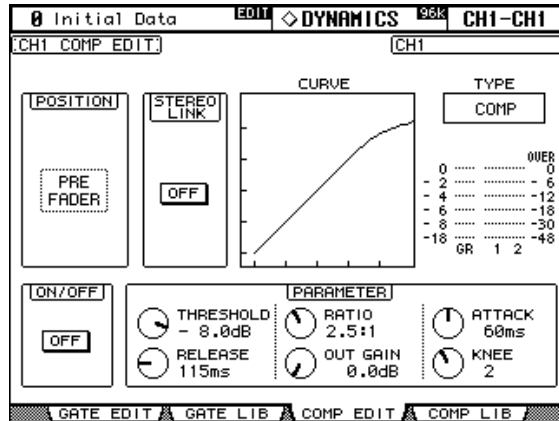
Comp Edit compressor , DYNAMICS
, SELECTED CHANNEL DYNAMICS compressor
control 가 197
"Auto DYNAMICS Display"

1 LAYER , [SEL]

2 SELECTED CHANNEL DYNAMICS [DISPLAY] Comp
comp compressor
128 "Comp"

3 SELECTED CHANNEL DYNAMICS [DISPLAY]

Comp Edit



4 , INC/DEC , [ENTER]

POSITION: compressor , pre-EQ, pre-fader post-fader

. Insert COMP POSITION
95 " "

STEREO LINK: (pairing) stereo

compressor . Input Channel compressor Input
Channel (pairing)
104 " (pairing)"
가

CURVE: compressor (,)

TYPE: compressor Comp

: Input Channel
. GR compressor

ON/OFF: compressor . SELECTED CHANNEL
DYNAMICS [COMP ON]

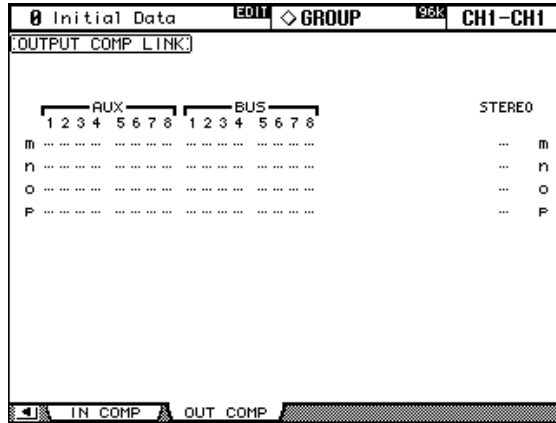
PARAMETER: (Threshold), (Ratio), (Attack), (Release),
(Out Gain), (Knee) control

Output Channel Compressor

Bus Out, Aux Send, Stereo Out compressor, Output Channel
 . Output Channel compressor m, n, o, p

1 DISPLAY ACCESS [GROUP]

Output Comp Link



2 LAYER [MASTER]

3 Up/Down compressor m-p
 가

4 [SEL] Output Channel 가

가 Output Channel compressor 가
 Output Channel
 Output Channel 가, [SEL] indicator가

Delay

Input Channel, Bus Out, Aux Send, Stereo Out
 . Input Channel Delay

Delay

1 SELECTED CHANNEL DISPLAY ACCESS [DELAY]

Delay

56 Input Channel Delay
 Channel 1-24 Delay

Input

0 Initial Data		EDIT		◇ DELAY		96k		CH1-CH1	
[INPUT CH1-24 DELAY]		[CH1]		DELAY SCALE		meter		feet	
		sample		beat		frame		GANG	
	1	2	3	4	5	6	7	8	
[msec]	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
[sample]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIX	+100	+100	+100	+100	+100	+100	+100	+100	
FB.GAIN	0%	0%	0%	0%	0%	0%	0%	0%	
	9	10	11	12	13	14	15	16	
[msec]	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
[sample]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIX	+100	+100	+100	+100	+100	+100	+100	+100	
FB.GAIN	0%	0%	0%	0%	0%	0%	0%	0%	
	17	18	19	20	21	22	23	24	
[msec]	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
[sample]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIX	+100	+100	+100	+100	+100	+100	+100	+100	
FB.GAIN	0%	0%	0%	0%	0%	0%	0%	0%	
	CH1-24	CH25-48	CH49-56	OUTPUT					

Bus Out, Aux Send, Stereo Out

Delay

Output Delay

0 Initial Data		EDIT		◇ DELAY		96k		AUX1-AUX1	
[INPUT CH1-24 DELAY]		[CH1]		DELAY SCALE		meter		feet	
		sample		beat		frame		GANG	
	1	2	3	4	5	6	7	8	
[msec]	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
[sample]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIX	+100	+100	+100	+100	+100	+100	+100	+100	
FB.GAIN	0%	0%	0%	0%	0%	0%	0%	0%	
	9	10	11	12	13	14	15	16	
[msec]	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
[sample]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIX	+100	+100	+100	+100	+100	+100	+100	+100	
FB.GAIN	0%	0%	0%	0%	0%	0%	0%	0%	
	17	18	19	20	21	22	23	24	
[msec]	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
[sample]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIX	+100	+100	+100	+100	+100	+100	+100	+100	
FB.GAIN	0%	0%	0%	0%	0%	0%	0%	0%	
	CH1-24	CH25-48	CH49-56	OUTPUT					

2

Delay

INC/DEC

, [ENTER]

LAYER [SEL] Input Channel Output Channel

DELAY SCALE: msec delay . meter(
), feet(), sample(), beat() timecode frame()

GANG: , (pairing) delay delay 가

ON/OFF: Delay . [ENTER]
 delay

msec: delay . delay
 , DELAY SCALE Delay
 . [ENTER] Input Channel Output Channel
 delay Input Channel Output Channel

MIX: Input Channel , dry wet

FB.GAIN: Input Channel Delay ,

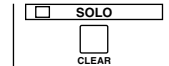
Input Channel, Bus Out Aux Send
1 Input Channel LAYER Input Channel
 , Output Channel

Input Channel Output Channel . Output Channel
 Input Channel , 가

2 [SOLO] [SOLO] indicator가



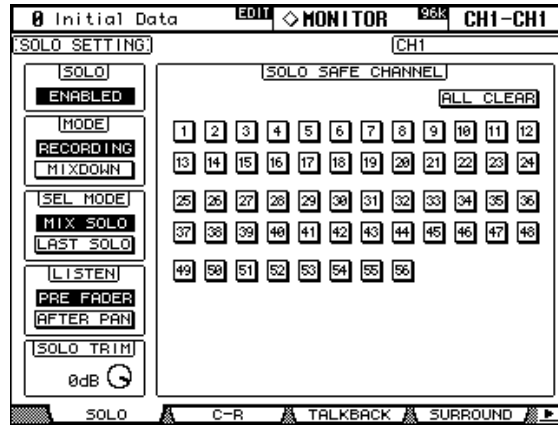
. SOLO [CLEAR] MONITOR SOLO indicator가



Solo Setup , SOLO 가

197 "Auto SOLO Display:"

1 MONITOR [DISPLAY] Solo Setup



2 , INC/DEC , [ENTER]

SOLO: 가
STATUS: Solo Recording Mixdown . Input Channel

Recording Solo , Input Channel 가 Control Room Output

fader . AFTER PAN , Input Channel pre

Mixdown Solo , Input Channel 가 Stereo Out Control
 Room Stereo bus . Input Channel
 [ON] indicator가 (Solo Safe가 가).
 Stereo Out Input Channel . Input
 Channel .
SEL MODE: Solo Select Mix Solo Last Solo . Mix Solo
 , . Last Solo ,
 .
LISTEN: Input Channel pre fader .
 Mixdown Solo . Output Channel
 .
SOLO TRIM: (trimming) .
 Mixdown Solo .
SOLO SAFE CHANNEL: , Input Channel
 Input Channel Input Channel
 . [SEL] , SOLO SAFE CHANNEL
 . [ENTER] INC/DEC Input Channel Solo Safe
 . Recording Solo . ALL CLEAR
 [ENTER] Solo Safe .

(pairing)

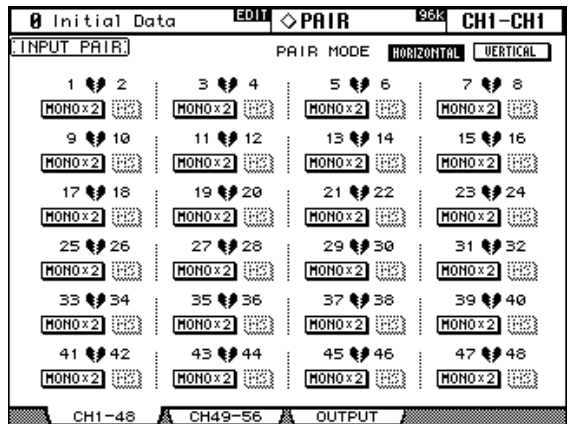
stereo Input Channel, Bus Out, Aux Send (pairing)
 Input Channel , - (, 1-2, 3-4,
 5-6) , (, 1-25, 2-26,
 49-73, 50-74) (pairing) . Bus Out Aux Send
 (pairing) 가 .

[SEL] (pairing)

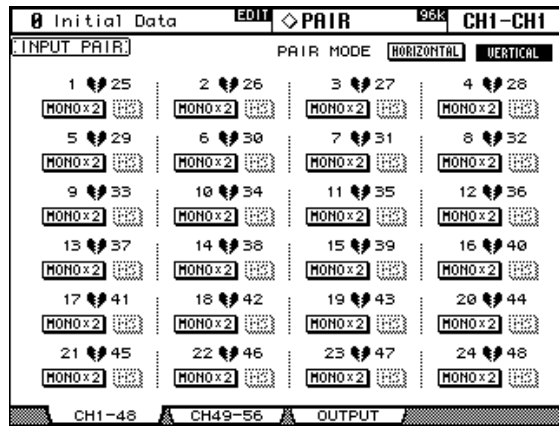
(pairing) [SEL] .
1 LAYER , (pairing) .
2 [SEL] [SEL] .
 (pairing) .
 [SEL] indicator가 , [SEL] indicator .
 Aux Send AUX SELECT (pairing) .
 (pairing) , [SEL]
 [SEL] .
 (pairing) , fader, On/Off, Insert On/Off, Aux On/Off, Aux Send , Aux
 pre/post, Gate , compressor , EQ , fader , EQ
 , Comp , Solo Safe, [AUTO] , Fade , Recall Safe, Bus to Stereo On/Off,
 Bus to Stereo 가 .
 (pairing) , Input Patch, Insert Patch, Output Patch, Comp , , Delay
 On/Off, Delay , Delay , , , Follow Pan, Surround Pan, Bus to
 Stereo Pan, Aux Send Pan, , Attenuator

Pair (pairing)

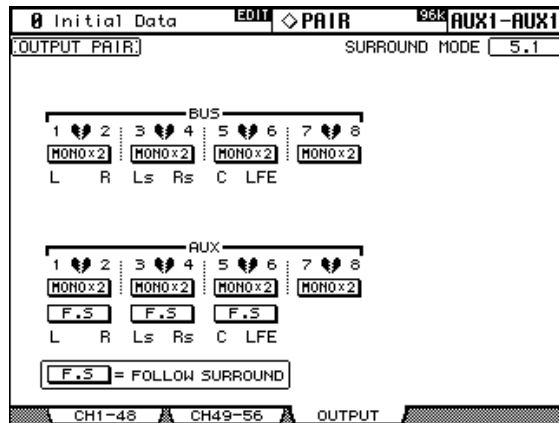
Pair (pairing) 가 .
1 DISPLAY ACCESS [PAIR] Pair .
 56 Input Channel Pair . Input
 Channel 1-48 Pair .



2 pair , PAIR MODE HORIZONTAL VERTICAL
 , [ENTER]
 Input Channel 1-48 Input Channel 49-96 pair
 Input Channel 1-48 Pair



Bus Out Aux Send pair Output Pair



3 pair , [ENTER]

LAYER [SEL] Input Channel Output Channel

가

[ENTER]

(pairing)

Input Channel (pairing) , MS MS
 . MS Input Channel Pair
 MS

Output Pair Surround (, Stereo, 3-1 5.1)
 Surround Mode (72) . Stereo
 Surround , Surround Bus Out
 Aux Send pair

Surround Mode	Bus Out/Aux Send					
	1	2	3	4	5	6
3-1	L	R	C	S	-	-

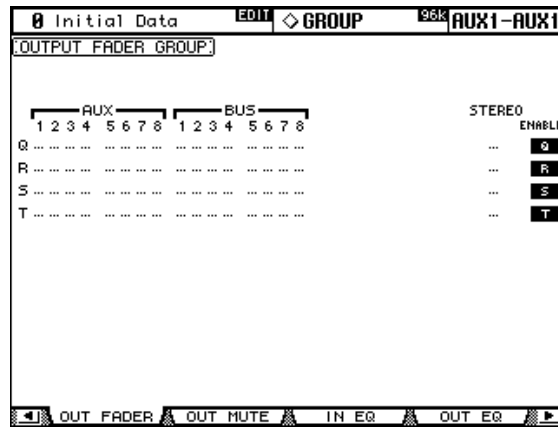
Surround Mode	Bus Out/Aux Send					
	1	2	3	4	5	6
5.1	L	R	Ls	Rs	C	LFE

Stereo Surround , Bus Out Input Channel Surround Pan
 Aux Send , effect Surround
 . Aux Send FS
 . Surround Pan Aux Send , Aux Send pair
 , Aux Pan (84)

Output Channel fader

Bus Out, Aux Send, Stereo Out fader , Output Channel
 . Output Channel fader Q, R, S, T

1 DISPLAY ACCESS [GROUP] Output Fader Group



2 LAYER [MASTER]

3 Up/Down fader Q-T

4 [SEL] Output Channel fader 가

Output Channel 가 , [SEL] indicator가

ENABLE: 가

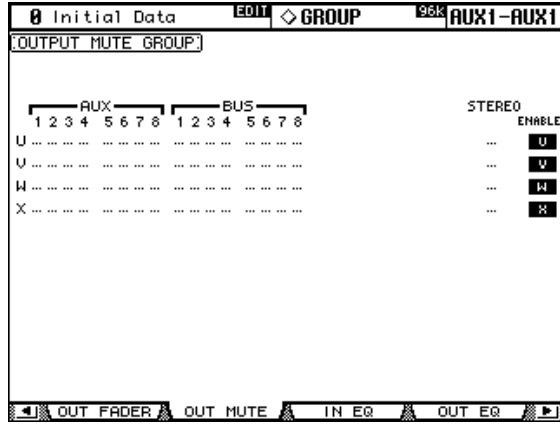
fader [SEL] fader
 , fader fader
 fader fader 35 "Fader
 "

Output Channel (ON/OFF)

Bus Out, Aux Send, Stereo Out , Output Channel
 . Output Channel U, V, W, X

1 DISPLAY ACCESS [GROUP]

Output Mute Group



2 LAYER [MASTER]

3 Up/Down 가

U-X

4 [SEL]

Output Channel

가

Output Channel 가 , [SEL] indicator가

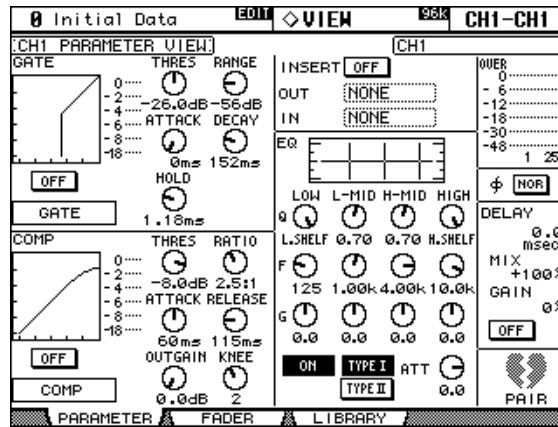
ENABLE: 가

Input Channel, Bus Out, Aux Send Stereo Out Parameter View

- 1 **DISPLAY ACCESS [VIEW]** Parameter View
- 2 **LAYER** , [SEL]
- 3 , INC/DEC , [ENTER]

Input Channel

Input Channel Parameter View



GATE: Input Channel Gate On/Off, Threshold(), Range(), Attack(), Decay(), Hold() Gate . GR
Gate . gate gate

COMP: Comp On/Off, Threshold(), Ratio(), Attack(), Release(), Gain(), Knee() compressor . GR
Compressor . Comp Comp

INSERT: Insert , .
95 " "

EQ: EQ attenuator . Input Channel
EQ . 91 "EQ" .

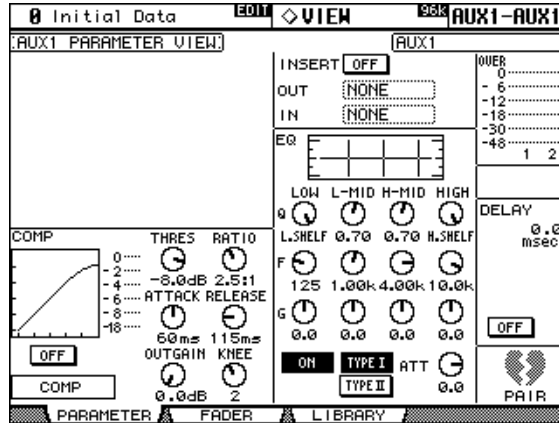
:
: Input Channel
59 " "

DELAY: Delay . 101
" Delay"

PAIR: (pairing) .
104 " (pairing)" .

Output Channel

Bus Out, Aux Send, Stereo Out Parameter View , Input
 Channel Input Channel Parameter View GATE , DELAY MIX FB
 GAIN . Stereo Out
 . [SEL]

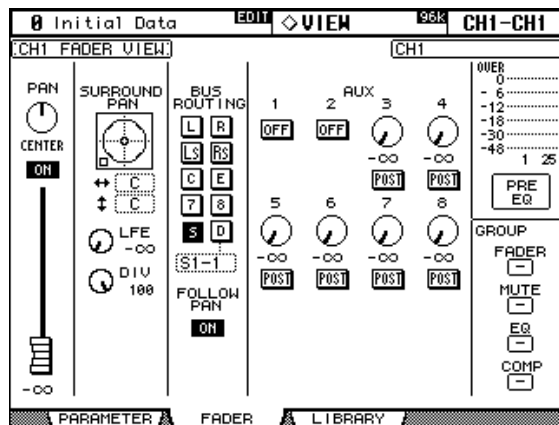


fader

Input Channel, Bus Out, Aux Send Stereo Out fader Fader
 View
 1 **DISPLAY ACCESS [VIEW]** Fader View
 2 **LAYER** , [SEL]
 3 , , INC/DEC , [ENTER]
 Pan control , [ENTER]

Input Channel

Input Channel Fader View



PAN: Input Channel Pan . 67
 "Input Channel "

ON/OFF: Input Channel On/Off . 63
 "Input Channel (ON/OFF)"

Fader: Input Channel fader . fader 0.0 dB
 fader knob가 . fader 가 fader
 65 "Input Channel "

SURROUND PAN: Input Channel Surround Pan Stereo
 Surround Pan " 69 "Surround

BUS ROUTING: Input Channel (Routing) Follow Pan
 Direct Out 66 "Input Channel " 56 "Direct Out

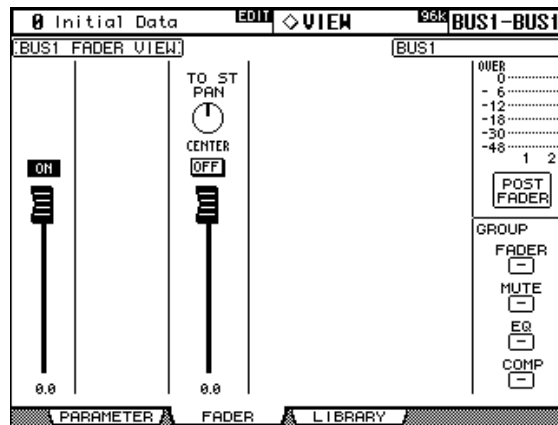
AUX: Input Channel Aux Send , On/Off pre/post
 rotary control , [ENTER] Aux Send
 79 "Aux Send"

: Input Channel 가

GROUP: Input Channel fader, ,
 EQ compressor

Bus Out

Bus Out Fader View



ON/OFF: Bus Out On/Off 77
 "Bus Out (ON/OFF)"

Fader: Bus Out fader . fader 0.0 dB fader
 knob가 . fader 가 fader
 77 "Bus Out "

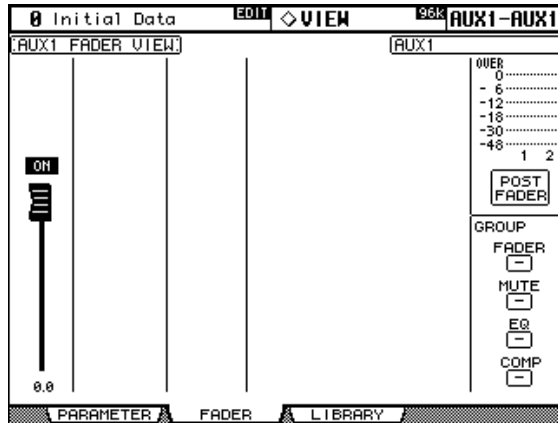
TO ST PAN, ON/OFF fader: Bus Out Bus Out to Stereo Out Pan, On/Off
 fader . fader 0.0 dB fader knob . fader
 가 fader 78 "Stereo Out Bus
 Out "

: Bus Out 가

GROUP: Bus Out fader, , EQ compressor

Aux Send

Aux Send Fader View



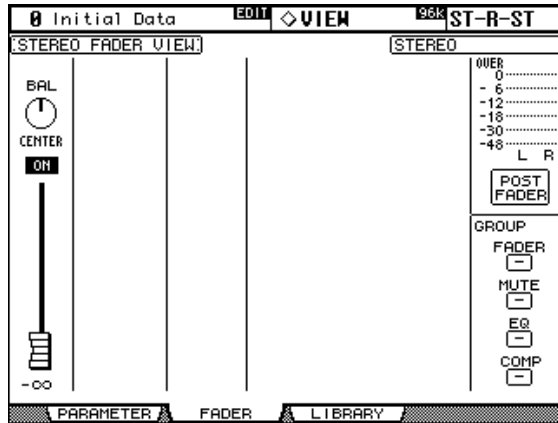
ON/OFF: Aux Send On/Off 80
 "Aux Send"

fader: Aux Send fader . fader 0.0 dB fader
 knob . fader 가 fader
 86 "Aux Send Master"
 : Aux Send 가

GROUP: Aux Send가 fader, , EQ
 compressor

Stereo Out

Stereo Out Fader View . Stereo Out
 . STEREO [SEL]



BAL: Stereo Out 75 "Stereo Out
 (balancing)"

ON/OFF: Stereo Out On/Off 74 "Stereo
 Out (ON/OFF)"

Fader: Stereo Out fader . fader 0.0 dB fader knob
 . fader 가 fader 74
 "Stereo Out"
 : Stereo Out 가

GROUP: Stereo Out fader, , EQ compressor

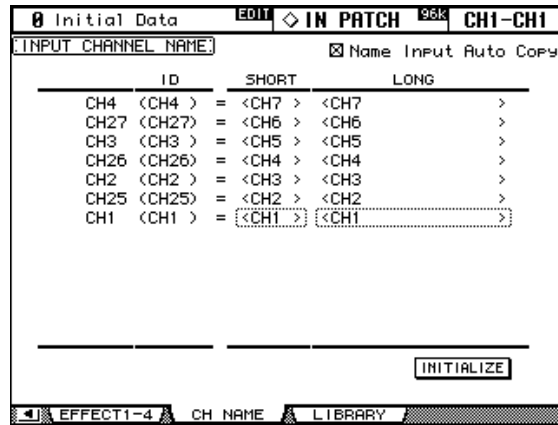
Input Channel, Bus Out, Aux Send, Stereo Out

Input Channel 214 , Output Channel 214

Input Channel

1 DISPLAY ACCESS [INPUT PATCH]

Input Channel Name



2 , INC/DEC LAYER [SEL] Input Channel

Input Channel (pairing) 가 , Input Channel CH1, CH25, CH2, CH26

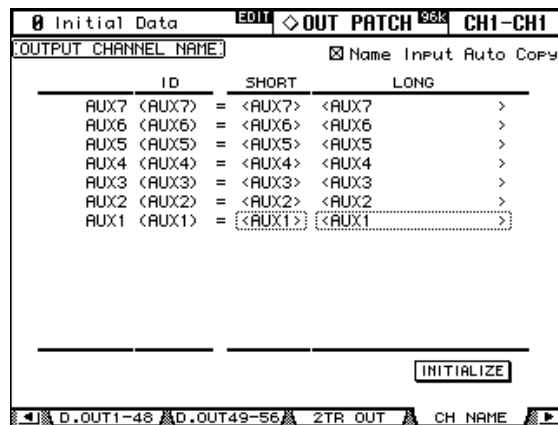
3 Input Channel , [ENTER]

Title Edit , Input Channel OK
 32 "Title Edit "
 INITIALIZE Input Channel

Output Channel

1 DISPLAY ACCESS [OUTPUT PATCH]

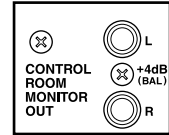
Name



12 Talkback

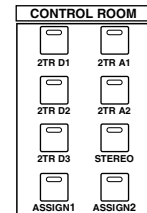
Control Room

CONTROL ROOM MONITOR OUT 1/4 ,
+4 dB Control room

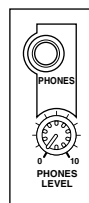
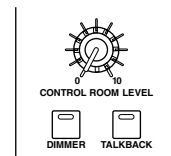


Control Room Monitor CONTROL ROOM

- [2TR D1]: 2TR IN DIGITAL AES/EBU 1 .
- [2TR D2]: 2TR IN DIGITAL COAXIAL 2 .
- [2TR D3]: 2TR IN DIGITAL COAXIAL 3 .
- [2TR A1]: 2TR IN ANALOG 1 .
- [2TR A2]: 2TR IN ANALOG 2 .
- [STEREO]: Stereo Out .
- [ASSIGN 1]: Control Room Setup . Output Channel
115 "Control Room Setup" .
- [ASSIGN 2]: Control Room Setup . Output Channel
115 "Control Room Setup" .



Control Room Monitor CONTROL ROOM LEVEL
control . [DIMMER]
, Control Room Monitor Surround Control Room
Setup (115) dim . Talkback
Oscillator , Dimmer



Control Room Monitor PHONES , PHONES
LEVEL control .

Surround

02R96 (pink noise) generator, Surround Monitor
 Surround Stereo Surround
 (59).

Surround Monitor SURROUND
 [BUS] Bus Out .[SLOT] Surround
 Monitor 4

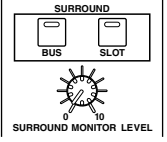
Surround Monitor (120) [SLOT]
 . Surround Monitor

SURROUND MONITOR LEVEL control

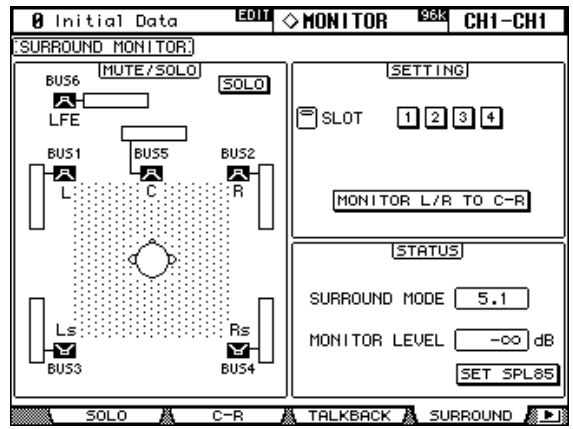
Surround Monitor Attenuator Delay Surround
 Monitor Ls Rs , 02R96
 Attenuator Delay Ls2 Rs2 Surround
 117 "Surround"

Surround Monitor Slot Output Omni Output
 54 " " .

1 32 Surround Monitor
 Surround Monitor 130
 "Surround Monitor"
 Surround Surround Monitor



1 MONITOR [DISPLAY] Surround Monitor



2 , INC/DEC , [ENTER]

Surround Monitor
 Surround Bus Out
MUTE/SOLO: Surround
 Surround
 . SOLO가 ,
 [ENTER] Surround
SETTING: SURROUND [SLOT] Slot Input
 4 , 가 . Surround
 Monitor Patch Slot Input Surround Monitor
 (120).

MONITOR L/R to C-R , Surround Monitor Control Room
 Monitor Surround Monitor Control Room Monitor

STATUS: SURROUND MODE Surround Mode (67)
 Surround . MONITOR LEVEL SURROUND MONITOR
 LEVEL control Surround
 85 dB SPL
 oscillator(117) 85 dB SPL
 SURROUND MONITOR LEVEL control Surround Monitor control
 , SET SPL85 MONITOR LEVEL 85 dB SPL
 . SET SPL85

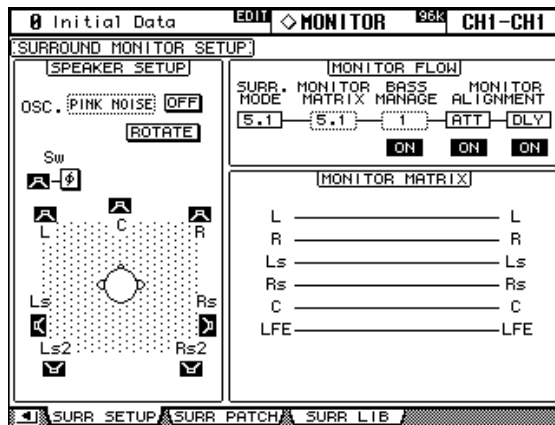
Surround

Surround Monitor Setup

Surround

1 MONITOR [DISPLAY]

Surround Monitor Setup



2

INC/DEC , [ENTER]

SPEAKER SETUP: Surround Monitor

OSC(oscillator) , PINK NOISE, 500-2K(500 Hz ~ 2 kHz BPF
), 1K(1 kHz) 50 Hz(50 Hz) . ON/OFF

oscillator oscillator가 , oscillator

Surround -20 dB oscillator

Bus Out

[SEL] . LFE SW

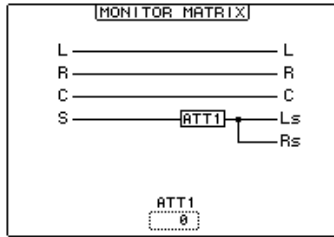
. ROTATE , oscillator 가
 (3 , 2).

SURR.MODE: Surround Mode (69) Surround

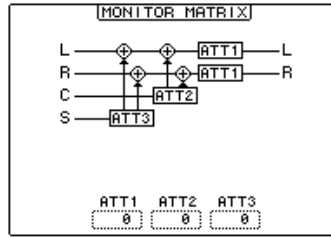
MONITOR MATRIX: Surround Monitor
 und , 5.1, 3-1 ST
 ST . ATT

. 5.1 Surro
 . 3-1 Surround , 3-1
 Surround
 가

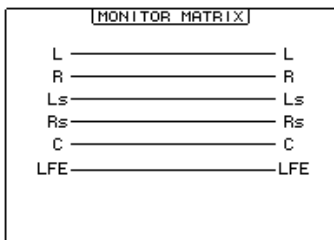
3-1 3-1



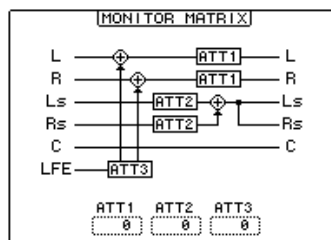
3-1 ST



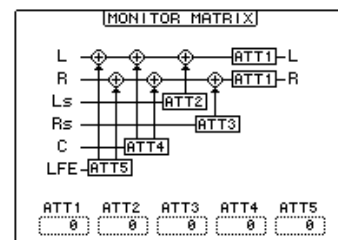
5.1 5.1



5.1 3-1



5.1 ST



BASS MANAGE: 5
 . ON/OFF

("w/BS" with Bass Management).
 SMALL 가

#		HPF	LPF1	LPF2	ATT	AMP
1	DVD Mix w/BS	80-12	80-24	80-24	0	10
2	DVD Author w/BS	80-12	120-42	80-24	0	10
3	Film Mix w/BS	80-12	80-24	80-24	-3	10
4	Film Author w/BS	80-12	120-42	80-24	-3	10
5	Bypass	THRU	THRU	MUTE	0	0

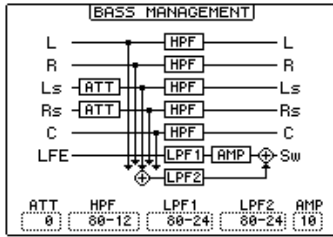
3-1 , (film sources)가 , 1
 2 . 3 4 .

HPF	THRU, 80-12, 80-12L, 80-24, 80-24L
LPF1	THRU, 80-24, 80-24L, 120-42
LPF2	THRU, 80-24, 80-24L, MUTE
ATT	0 ~ -12 dB (1 dB)
AMP	0 ~ +12 dB (1 dB)

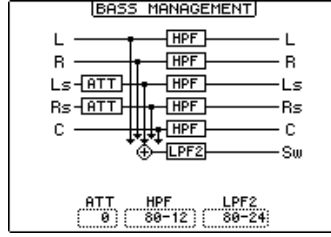
"80-12" 80 Hz -12 dB/ . "L"
 (Linkwitz) . (Butterworth) .

가 on off ,

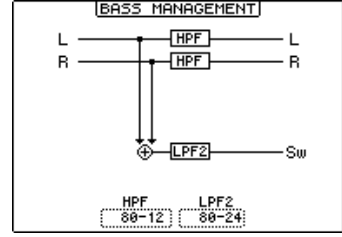
5.1 ON



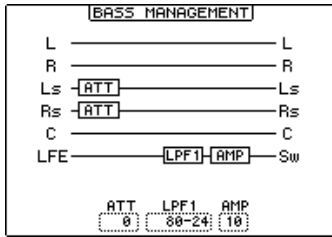
3-1 ON



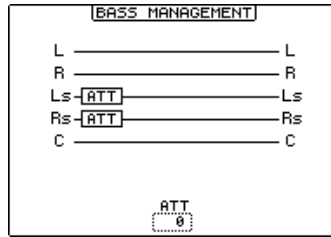
ST ON



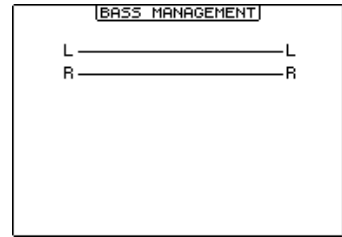
5.1 OFF



3-1 OFF

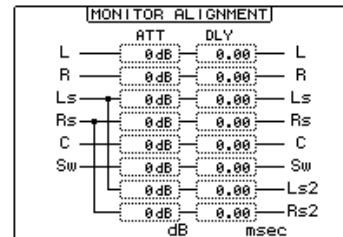


ST OFF



MONITOR ALIGNMENT ATT & DLY ON/OFF:

Surround Attenuator Delay
 . MONITOR
 ALIGNMENT Attenuator Delay
 , Surround
 attenuation delay Surround
 Monitor . Attenuator
 -12 dB +12 dB 0.1 dB
 . Delay 0.0 30.0msec
 0.02 msec



Surround

Slot Input Surround Monitor

1 MONITOR [DISPLAY]

Surround Monitor Patch

0 Initial Data		EDIT		MONITOR		98%		CH1-CH1	
[SURROUND MONITOR PATCH]									
[SURROUND MONITOR PATCH]									
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	LEVEL
SLOT1	[]	[]	[]	[]	[]	[]	[]	[]	0dB
SLOT2	[]	[]	[]	[]	[]	[]	[]	[]	0dB
SLOT3	[]	[]	[]	[]	[]	[]	[]	[]	0dB
SLOT4	[]	[]	[]	[]	[]	[]	[]	[]	0dB
	L	R	Ls	Rs	C	LFE			
Surr Setup		Surr Patch		Surr L16					



2

INC/DEC , [ENTER]

SLOT/CH: 4 Slot Input 1-8 Surround Monitor 1-8
 Slot Input Surround Monitor

LEVEL: Slot

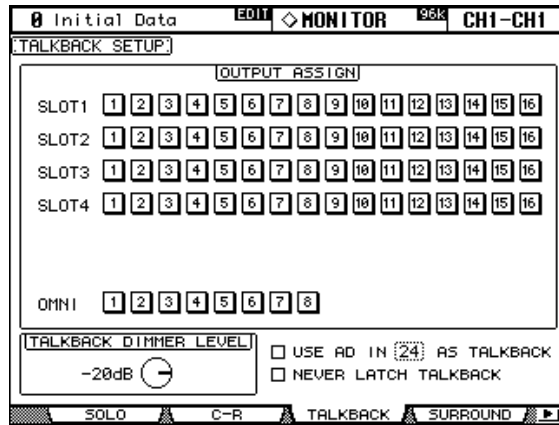
Talkback

Talkback Studio Monitor Out Talkback Setup Slot
 Omni Output Talkback .
 TALKBACK LEVEL control talkback .
 [TALKBACK] 가 가 (,
 300ms), Talkback ,
 Latch (Talkback Setup
). Talkback
 Unlatch . Talkback
 [TALKBACK] indicator가 .

Talkback Setup

1 MONITOR [DISPLAY]

Talkback Setup



2 , INC/DEC , [ENTER]

OUTPUT ASSIGN: Talkback Slot Omni Out

TALKBACK DIMMER LEVEL: Talkback , Studio Monitor
 Talkback attenuation

USE AD IN x AS TALKBACK: AD Input Talkback
 AD Input

AD Input 가 Talkback
 Talkback TALKBACK LEVEL

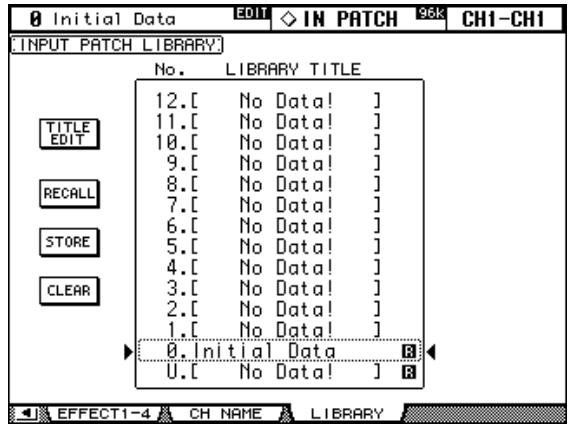
NEVER LATCH TALKBACK: Talkback latching

13

02R96 Automix, Effect, , Input patch, Output Patch, Bus to Stereo, Gate, Comp, EQ, Surround Monitor 10 가 .
 MIDI MIDI MIDI
 (168).

1

Input Patch



2

INC/DEC

가

3

TITLE EDIT: [ENTER]
 . Title Edit , OK . 32
 "Title Edit "

RECALL: [ENTER]
 (Recall Confirmation) ,

STORE: [ENTER]
 Title Edit , OK . 32
 "Title Edit " . 197 (Store Confirmation)
 Title Edit

CLEAR: [ENTER]

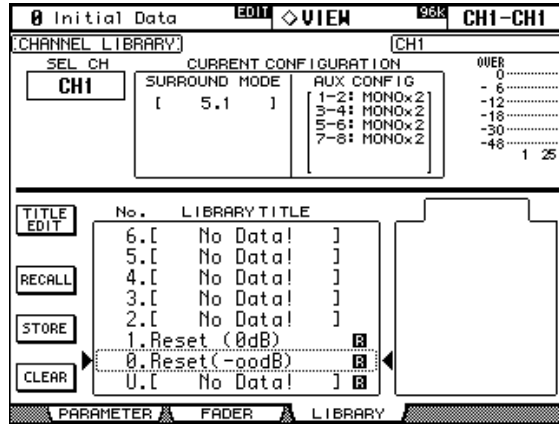
"R"
 가 "No Data!"
 0
 U
 U
 U

Input Channel, Bus Out, Aux Send, Stereo Out

2

127

1 DISPLAY ACCESS [VIEW] Channel



2 LAYER , [SEL]

Channel Input Channel , Aux Send , Input
"CONFLICT"

가 STORED FROM

0 "Reset(- dB)"

- dB

1 "Reset(0dB)"

0 dB(,)

SEL CH:

CURRENT CONFIGURATION:

Input Channel , Surround

Aux 가

: Input Channel

STORED FROM:

Input Channel , Pan Aux (pairing)

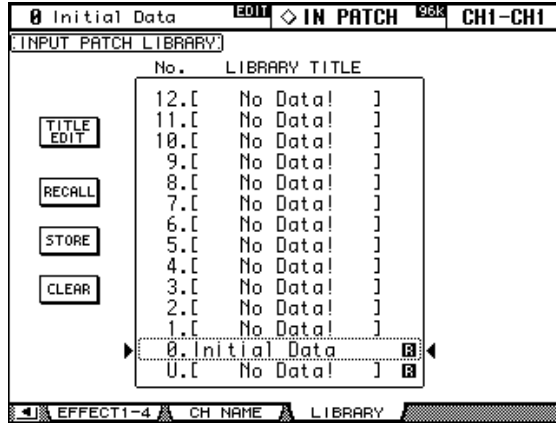
(Store), (Recall), Title Edit, (Clear)

122

Input Patch

1 Input Patch 32 . Input Patch Input Patch 52

1 DISPLAY ACCESS [INPUT PATCH] Input Patch

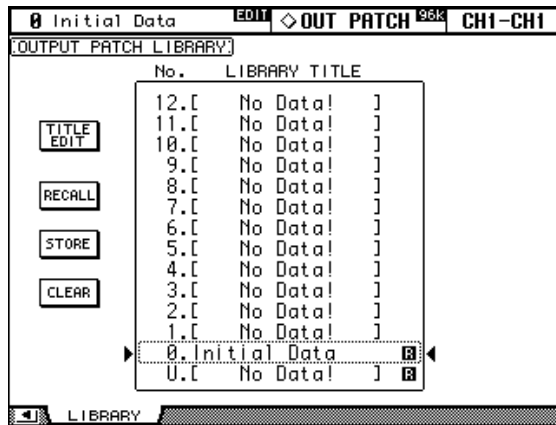


Input Patch
(Store), (Recall), Title Edit, (Clear) 122

Output Patch

1 Output Patch 32 . Output Patch Output Patch 54

1 DISPLAY ACCESS [OUTPUT PATCH] Output Patch



Output Patch
(Store), (Recall), Title Edit, (Clear) 122

Effect

52

76

Effect

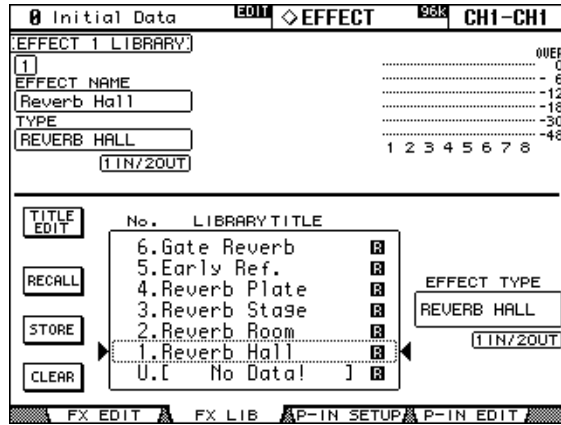
Effect

. Effect

131

1 EFFECTS/PLUG-INS [DISPLAY]

Effect



2 EFFECTS/PLUG-INS [INTERNAL EFFECTS]

, EFFECTS/PLUG-INS [1-4]

effect

effect

EFFECT NAME:

Effect

TYPE:

Effect

effect

I/O

1

Effect

가 8 , Effect

2 -4

. Effect

가 2

EFFECT TYPE:

effect

I/O

(Store),

(Recall), Title Edit,

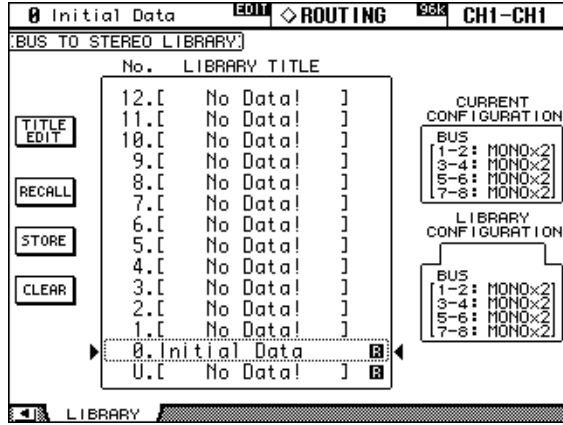
(Clear)

122

Bus to Stereo

1 Bus to Stereo 32 Bus to Stereo 78

1 ROUTING [DISPLAY] Bus to Stereo



Bus Out to Stereo Out

CURRENT CONFIGURATION: Bus Out (pairing) 가

LIBRARY CONFIGURATION: Bus Out (pairing) 가

Bus Out (pairing) 가 , LIBRARY CONFIGURATION

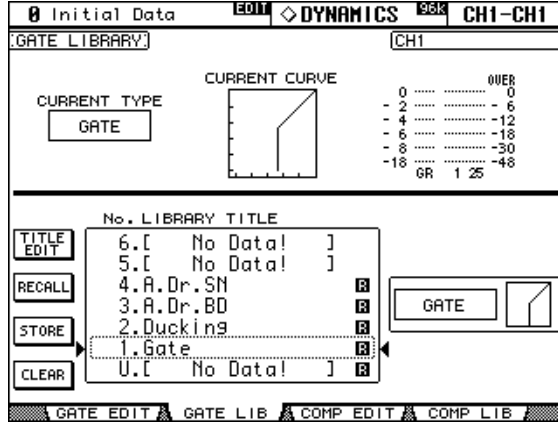
"CONFLICT" 가
 (Store), (Recall), Title Edit, (Clear) 122

Gate

4 Channel Gate 124 . Input Channel Gate Input 60

1 DYNAMICS [DISPLAY]

Gate



2 LAYER

, [SEL] Input Channel

, Input Channel Gate
 Gate Input Channel
 CURRENT TYPE: Gate
 CURRENT CURVE: Gate
 GR : gate (pairing) (Vertical)
 (Gate)
 (Store), (Recall), Title Edit, (Clear) 122

Comp

36

92

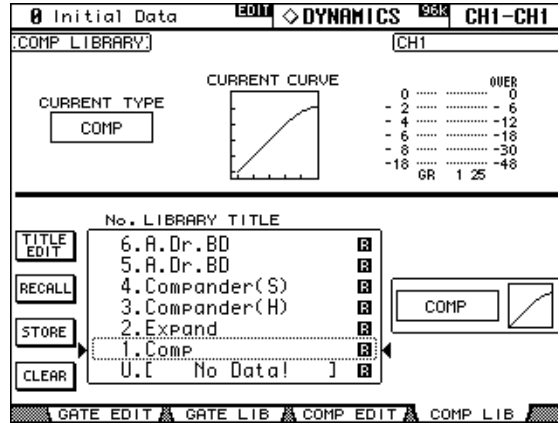
Comp

. Comp

97

1 DYNAMICS [DISPLAY]

Comp



2 LAYER

, [SEL]

Comp

Comp

CURRENT TYPE:

Comp

CURRENT CURVE:

Comp

GR : Comp

(pairing)

(Vertical)

(Comp, Expand, Comp Soft, Comp Hard)

(Store),

(Recall), Title Edit,

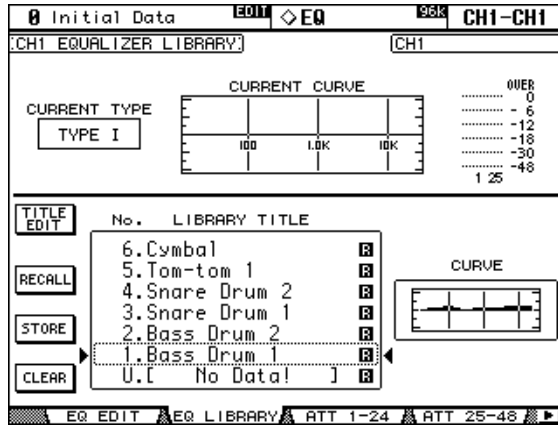
(Clear)

122

EQ

Input Channel, Bus Out, Aux Send, Stereo Out EQ EQ
40 160
91

1 EQUALIZER [DISPLAY] EQ



2 LAYER , [SEL]

EQ
EQ
CURRENT TYPE: EQ (TYPE I TYPE II)
CURRENT CURVE: EQ
: Input Channel

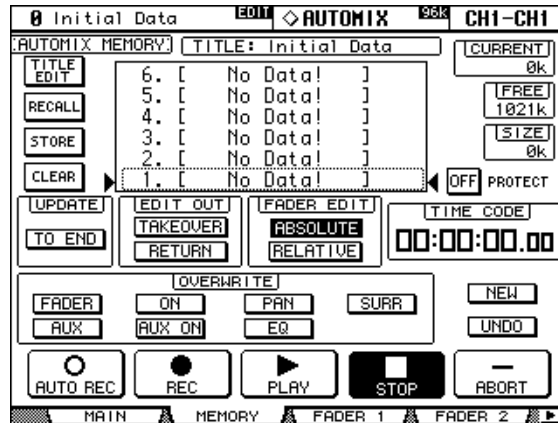
CURVE: EQ
(Store), (Recall), Title Edit, (Clear)
" "

Automix

16 Automix Automix
145

. Automix

1 AUTOMIX [DISPLAY] Automix



, Automix ↵

TITLE: Automix
CURRENT: Automix
FREE: Automix
SIZE: Automix
PROTECT: [ENTER]

Automix

(Store), (Recall), Title Edit, (Clear)

122

Surround Monitor

1 32

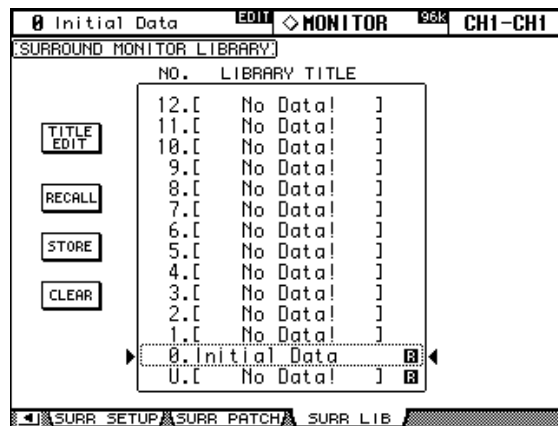
Surround Monitor

Surround Monitor

. Surround

116

1 MONITOR [DISPLAY] Surround Monitor



, Surround Monitor

(Store), (Recall), Title Edit, (Clear)

122

14 Effect

Effect

02R96 4 effect 가 , Reverb, Delay, Modulation
 effect, effect, surround effect effect effect

Effect 2-4 가 stereo .
 surround effect 1 , 8 가 .
 effect

effect Effects Edit
 effect (Meter)
 87 " "

52 76 Effect effect
 125 "Effect "

Effect

Effect Aux Send, Input Channel Output Channel Insert Out
 effect 53
 "Effect Input "

Effect Input Channel, Input Output Channel Insert In effect
 54 " "

effect

effect 223

reverb

#			
1	Reverb Hall	REVERB HALL	gate
2	Reverb Room	REVERB ROOM	gate
3	Reverb Stage	REVERB STAGE	gate
4	Reverb Plate	REVERB PLATE	gate reverb
5	Early Ref.	EARLY REF.	
6	Gate Reverb	GATE REVERB	gate
7	Reverse Gate	REVERSE GATE	gate

Delay

#			
8	Mono Delay	MONO DELAY	delay
9	Stereo Delay	STEREO DELAY	stereo delay
10	Mod.delay	MOD.DELAY	delay
11	Delay LCR	DELAY LCR	3 (, ,) delay
12	Echo	ECHO	stereo delay

Modulation effect

#			
13	Chorus	CHORUS	
14	Flange	FLANGE	
15	Symphonic	SYMPHONIC	Yamaha modulation effect
16	Phaser	PHASER	16 stereo shifter
17	Auto Pan	AUTO PAN	
18	Tremolo	TREMOLO	
19	HQ.Pitch	HQ.PITCH	shifter
20	Dual Pitch	DUAL PITCH	stereo shifter
21	Rotary	ROTARY	
22	Ring Mod.	RING MOD.	Modulator
23	Mod.Filter	MOD.FILTER	Modulation

Guitar effect

#			
24	Distortion	DISTORTION	
25	Amp Simulate	AMP SIMULATE	

effect

#			
26	Dyna.Filter	DYNA.FILTER	
27	Dyna.Flange	DYNA.FLANGE	
28	Dyna.Phaser	DYNA.PHASER	shifter

effect

#			
29	Rev+Chorus	REV+CHORUS	reverb
30	Rev->Chorus	REV->CHORUS	reverb
31	Rev+Flange	REV+FLANGE	reverb
32	Rev->Flange	REV->FLANGE	reverb
33	Rev+Sympho.	REV+SYMPHO.	reverb
34	REV->SYMPHO.	REV->SYMPHO.	reverb
35	Rev->Pan	REV->PAN	reverb
36	Delay+ER.	DELAY+ER.	delay
37	Delay->ER.	DELAY->ER.	delay
38	Delay+Rev	DELAY+REV	delay reverb
39	Delay->Rev	DELAY->REV	delay reverb
40	Dist->Delay	DIST->DELAY	delay

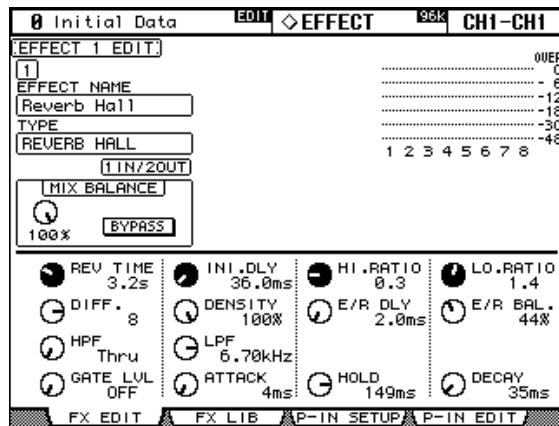
#			
41	Multi.Filter	MULTI.FILTER	3band (24 dB/)
42	Freeze	FREEZE	
43	Stereo Reverb	ST REVERB	Stereo reverb
44 ¹	Reverb 5.1	REVERB 5.1 ²	6 5.1 surround reverb
45 ¹	Octa Reverb	OCTA REVERB ²	8 7.1 surround reverb
46 ¹	Auto Pan 5.1	AUTO PAN 5.1	6 5.1 surround
47 ¹	Chorus 5.1	CHORUS 5.1	6 5.1 surround
48 ¹	Flange 5.1	FLANGE 5.1	6 5.1 surround
49 ¹	Sympho. 5.1	SYMPHO. 5.1	6 5.1 surround effect
50	M. Band Dyna.	M. BAND DYNA.	band
51 ¹	Comp 5.1	COMP 5.1 ²	5.1 surround band compressor
52 ¹	Compand 5.1	COMPAND 5.1 ²	5.1 surround band compander

1. Effect 1 effect
 2. effect 4 DSP가 effect
 가 3 , effect 1 REVERB 5.1 , 2-4

Effect

effect

- EFFECTS/PLUG INS [INTERNAL EFFECTS]
- EFFECTS/PLUG INS [1-4] effect
- EFFECTS/PLUG INS [DISPLAY] Effect
 effect effect
- EFFECTS/PLUG INS [DISPLAY] Effect
 125 "Effect"



effect effect

131

- INC/DEC [ENTER]

EFFECT NAME: effect
 TYPE: effect effect I/O

MIX BALANCE: dry wet .0%
 , dry .100% , wet

BYPASS: effect

TEMPO: delay 가 effect 가

effect ,

delay , BPM control .

TAP TEMPO

가 . MIDI CLK 가 , MIDI Rx

MIDI 가 . 163

"MIDI I/O"

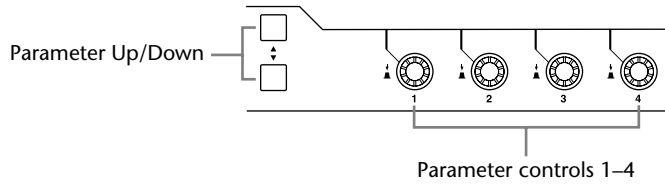
: effect . 1

가8 , 2-4 가2 .

control 1-4 effect .

Up/Down 가

가 , Up 16 , Down 가



Y56K effect effect ,

EFFECTS/PLUG-INS [CHANNEL INSERTS] , EFFECTS/PLUG-INS

[1-4] indicator가 , effect Plug-In Edit 가 . Y56K

, [PLUG-INS] indicator . effect

, [INTERNAL EFFECTS] indicator .

effect , 가

02R96 YGDAI Slot(Slot 3-4 가) Y56K
 Yamaha
 effect MIDI MIDI control
 가가 32
 4 control
 automation
 Scene
 Y56K YGDAI Slot 3-4 3-4 Y56K
 Slot 4 4
 Slot Input Output 가 , 02R96 Y56K effect
 . Slot Output(, effect) Bus Out, Aux Send, Stereo Out
 Input Output Channel Insert Out . Slot Input(, effect
) Input Channel Input Output Channel Insert In
 52 "Input Output Patch"

Y56K Slot , 02R96

- 1 EFFECTS/PLUG INS [PLUG-INS]
- 2 EFFECTS/PLUG INS [DISPLAY]

Plug-In Setup

Initial Data		EFFECT	CH1-CH1
PLUG-IN SETUP			
TARGET	NAME	PORT	
PLUG-IN1	PLUG-IN CARD <WAVES >	SLOT1	
PLUG-IN2	PLUG-IN CARD <WAVES >	SLOT2	
PLUG-IN3	USER DEFINED <REV500 >	SERIAL (1)	
PLUG-IN4	USER DEFINED <BANK2 TITLE >	USB (1)	

- 3 , INC/DEC , [ENTER]

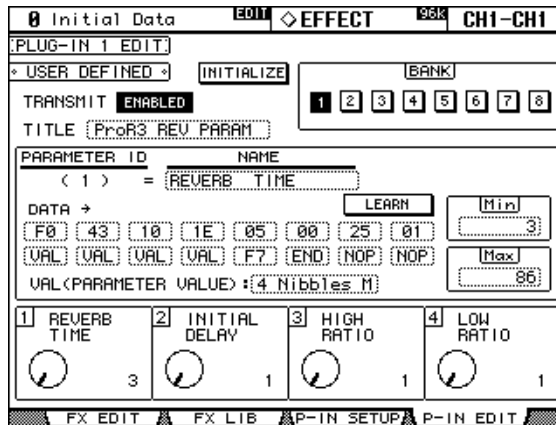
TARGET: 4 . EFFECTS PLUG-INS [1-4]
 , Plug-In Edit
 가 . EFFECTS PLUG-INS
 [1-4]
TITLE: Y56K , USER DEFINED
 , Plug-In Edit
PORT: Y56K , Slot 가 USER
 DEFINED , MIDI MIDI, 1-8, USB 1-8 SLOT1 1-8
 MIDI MIDI/To Host Setup
 163 "MIDI I/O"

, MIID MIDI (168)

Slot Y56K 가

- 1 EFFECTS/PLUG INS [PLUG-INS]
- 2 EFFECTS/PLUG INS [1-4]
- 3 EFFECTS/PLUG INS [DISPLAY]

Plug-In Edit



4 , INC/DEC , [ENTER]

TRANSMIT: MIDI 가

INITIALIZE:

BANK:

4 , 32 가

TITLE: (16)
 , [ENTER] . Title Edit
 OK . 32 "Title Edit "

PARAMETER ID/NAME: Plug-In Edit 4 rotary control

, control (16)
 INC/DEC 1-4 ID , [ENTER]
 Title Edit , OK . 32
 "Title Edit "

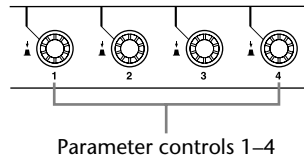
DATA: control MIDI (16)
 . PARAMETER ID/NAME , 1-4 ID
 . 00 FF 16 . VAL
 control . END . NOP

가
 LEARN: MIDI control
 , MIDI 가
 MIDI 가 DATA
 16

MIN/ MAX: control MIDI
 . PARAMETER ID/NAME , 1-4
 ID
 VAL: control DATA VAL
 가

VAL		VAL
One byte	7 1	1 VAL
MSB/LSB	14 7	2 VAL
LSB/MSB	14 7	2 VAL
2 Nibbles M	, 8 4	2 VAL
3 Nibbles M	, 12 4	3 VAL
4 Nibbles M	, 4	4 VAL
2 Nibbles L	, 8 4	2 VAL
3 Nibbles L	, 12 4	3 VAL
4 Nibbles L	, 4	4 VAL

Plug-In Edit control , MIDI 가
 control .
 Plug-In Edit control 1-4



Y56K effect effect ,
 EFFECTS/PLUG-INS [CHANNEL INSERTS] , EFFECTS/PLUG-INS
 [1-4] indicator가 , effect 가
 Y56K , [PLUG-INS] indicator . effect
 , [INTERNAL EFFECTS] indicator .
 effect , 가
 가 Scene . Scene
 MIDI 가 Scene , 가
 (, REMOTE 가 ENABLED).
 , MIDI .

15 Scene Memory

Scene Memory

Scene Memory 02R96 Scene
 . Scene Memory 99 , . Scene
 Input Output Patch , Input Output Patch Scene
 . Input Output Channel fader 30 fade
 . Recall Safe Scene Input
 Output Channel . Scene
 .
 SCENE MEMORY [STORE] [RECALL] , Scene Memory
 Scene . MIDI Scene
 , 166 "Scene
 Program Change " . 02R96 Scene , Scene
 가 , MIDI , effect
 . Scene Automix
 . Automix , Scene .
 145 "Automix" .
 Scene Memory MIDI MIDI MIDI
 (168) .

Scene

Scene Input Channel Out Channel , Effect ,
 (pair) , Fade , Scene .

Indicator

(, Scene) . Scene ,
 Scene Memory . Scene ,
 Scene Memory ,
 Scene , indicator(SCENE
 MEMORY "EDIT")가 , (,
) Scene



SCENE MEMORY



Scene 2
 indicator가



Scene 2 가
 Scene2 indicator가

02R96

Scene Memory 0 U

Scene Memory 0
 ,
 , Scene Memory 0 . Input Channel fader
 (Initial Data Nominal) preference - dB
 (198).
 Scene Memory U Scene Memory
 . Scene Memory , Scene Memory
 U Scene Memory . Scene Memory
 , Scene Memory U
 . Scene Memory U
 .

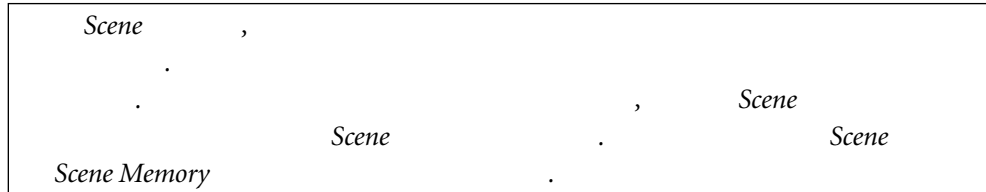
Scene Memory

, Scene
 198 Scene MEM (Scene MEM Auto Update)
 , Scene Memory
 가 .
 , A/B .
 Scene , Scene Memory
 . Scene 가 ,
 .
 Scene MEM (Scene MEM Auto Update) ,
 가 가 ,
 , indicator가 .
 가 .
 , indicator
 , 가 indicator가
 가 , Scene ,
 , indicator .
 Automix Scene , 가 .MIDI
 Scene , Scene
 , 02R96 SCENE MEMORY Scene Memory
 Scene .

SCENE MEMORY

Scene

Scene Memory , SCENE MEMORY 가
 , Scene Memory . Scene
 Memory , Scene Memory "NO"
 DATA!" , Scene Memory
 Scene Memory



Scene

- 1 **SCENE MEMORY Up [▲] Down [▼]** Scene Memory .
- 2 **[STORE]** .
 Title Edit . 197 (Store Confirmation) preference
- 3 .
 32 "Title Edit "
- 4 **Title Edit OK** .
 Scene Scene Memory .
 Scene Memory U (SCENE MEMORY "Ud") , Scene

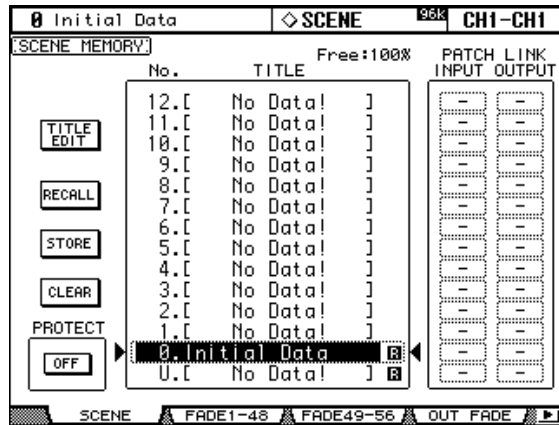
Scene

- 1 **SCENE MEMORY Up [▲] Down [▼]** Scene Memory .
- 2 **[RECALL]** .
 Scene Memory , 가
 (Recall Confirmation) , Scene
- Scene Memory U (SCENE MEMORY "Ud") , Scene

Scene Memory

Scene Memory Scene , , ,

1 SCENE MEMORY [DISPLAY] Scene Memory



2 INC/DEC Scene Memory

3

TITLE EDIT: Scene Memory , [ENTER]
 . Title Edit , OK

32 "Title Edit "

RECALL: Scene Memory , [ENTER]
 . Scene Memory , 가
 , Scene Memory , indicator가
 (Recall Confirmation) , Scene

STORE: Scene Memory Scene , [ENTER]
 . Title Edit , OK
 32 "Title Edit " . Scene , Scene
 Memory , indicator가 . 197
 (Store Confirmation) Title Edit
 . "Free: 100%" Scene

CLEAR: Scene Memory ,
 [ENTER] , YES

PROTECT: Scene Memory , [ENTER]
 . Scene Memory .
 Scene Memory Scene . PROTECT , INC/DEC
 Scene Memory

PATCH LINK: INPUT OUTPUT , Scene
 , Scene Memory
 .
 Scene . 가 ,

Scene fade

Input Channel, Bus Out, Aux Send Stereo Out fade
 , fade , Scene , Input Output Channel fader Scene
 . fade Scene .

- 1 **SCENE MEMORY [DISPLAY]** **Fade Time**
 56 Input Channel fader
 Input Channel 1-48 Fade Time

0 Initial Data		◇ SCENE		96k		CH1-CH1		
INPUT CH1-48 FADE TIME				[CH1]				
[ALL CLEAR]								
INPUT CH [sec]	1	2	3	4	5	6	7	8
	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
	9	10	11	12	13	14	15	16
	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
	17	18	19	20	21	22	23	24
	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	26	27	28	29	30	31	32	
00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	
33	34	35	36	37	38	39	40	
00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	
41	42	43	44	45	46	47	48	
00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	
Double-click to copy to all Inputs								
SCENE		FADE1-48		FADE49-56		OUT FADE		

Output Channel Fade Time Output Fade Time

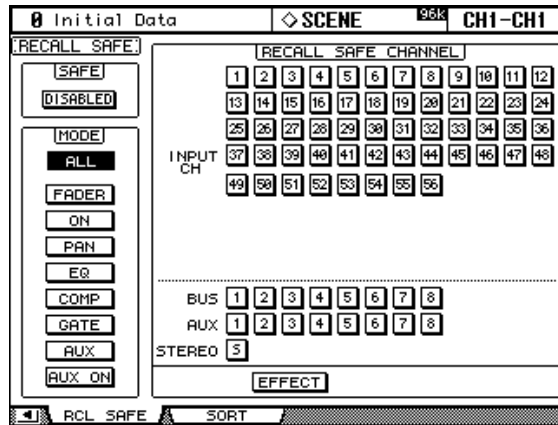
0 Initial Data		◇ SCENE		96k		CH1-CH1		
OUTPUT FADE TIME				[BUS1]				
[ALL CLEAR]								
BUS [sec]	1	2	3	4	5	6	7	8
	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
AUX [sec]	1	2	3	4	5	6	7	8
	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
STEREO [sec]	00.0							
Double-click to copy to all Outputs								
SCENE		FADE1-48		FADE49-56		OUT FADE		

- 2 **[SEL]** **Fade Time**
INC/DEC
 [ENTER] , Input Channel Output Channel Fade
 Time Input Channel Output Channel
 Fade Time 가
 [SEL] ,
 Fade Time 0 30 0.1
 ALL CLEAR [ENTER] Fade Time 0

Scenes

Scene , 가 , Recall Safe 가 .
 Input Channel, Bus Out, Aux Send Stereo Out Recall Safe

1 SCENE MEMORY [DISPLAY] Recall Safe



2 SAFE ENABLED/DISABLED , [ENTER] INC/DEC
 Recall Safe 가 .

3 , [SEL] , [ENTER]
 INC/DEC Safe channel .
 [SEL]
 Safe channel , 가 .

4 MODE , [ENTER]

MODE Scene Safe channel . ALL(
 . FADER(fader),
 ON(On/Off), PAN(Pan), EQ(EQ), COMP(Comp),
 GATE(Gate), AUX(Aux Send), AUX ON(Aux Send On/Off).
 EFFECT MODE , effect
 Recall safe Scene Memory .

Scene

Scene Memory Scene

1 SCENE MEMORY [DISPLAY] Scene Memory

The screenshot shows a menu titled 'SCENE MEMORY SORT' with an 'EXECUTE' button. It contains two columns: 'SOURCE' and 'DESTINATION'. The 'SOURCE' column lists items 7 through 1, each with 'No Data!' and a closing bracket. The 'DESTINATION' column lists items 6 through 1, each with 'No Data!' and a closing bracket, followed by '0. Initial Data'. An arrow points to the '1.' entry in the 'SOURCE' column, which is labeled 'INSERTION POINT'. At the bottom, there are 'RCL SAFE' and 'SORT' options.

SOURCE	DESTINATION
7.[No Data!]	6.[No Data!]
6.[No Data!]	5.[No Data!]
5.[No Data!]	4.[No Data!]
4.[No Data!]	3.[No Data!]
3.[No Data!]	2.[No Data!]
2.[No Data!]	1.[No Data!]
1.[No Data!]	0. Initial Data

2 SOURCE , INC/DEC
Scene Memory

3 DESTINATION , INC/DEC
Scene Memory

4 [ENTER] Scene Memory
[ENTER]

16 Automix

Automix

02R96 Automix , , Pan, Surround Pan, Aux Send, Aux Send 가 , EQ, effect, 가 . , Remote Layer Scene punch in punch out . automation . event , 1/4 punch in/out 가 . Automix generator . 16 Automix Automix 130 "Automix " MIDI MIDI (168).

Automix

Automix .

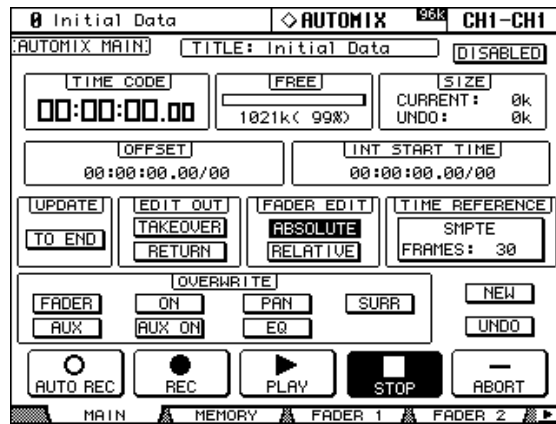
	Input Channel	Bus Out	Aux Send	Stereo Out
(fader)	O	O	O	O
(ON/OFF)	O	O	O	O
Pan	O	-	-	-
Surround Pan	O	-	-	-
EQ(F, Q, G, On/Off)	O	O	O	O
Aux Send 1-8	O	-	-	-
Aux Send 1-8	O	-	-	-
Scene				
EQ, Gate, Comp, Effect, Channel				
Effect ()				
(1-4)				
Remote Layer(fader, [ON], Encoder)				

Automix Main

Automix Main

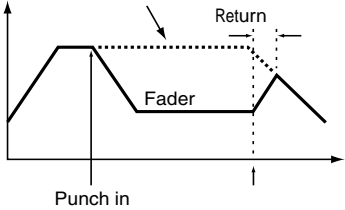
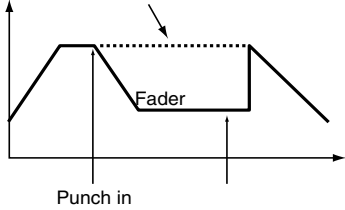
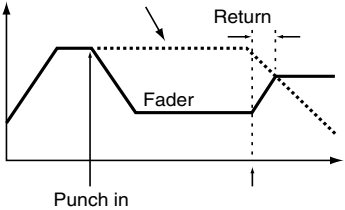
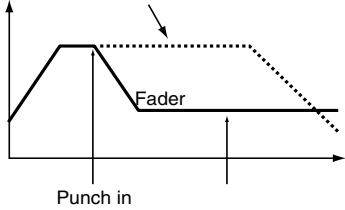
1 DISPLAY ACCESS [AUTOMIX]

Automix Main



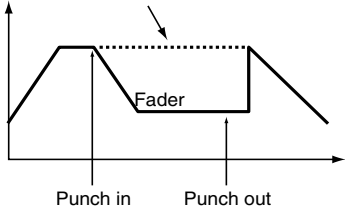
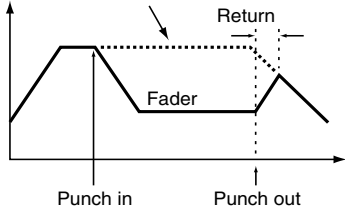
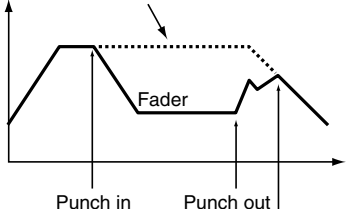
2 INC/DEC , [ENTER]

TITLE: Automix
DISABLED/ENABLED: Automix 가
TIME CODE:
FREE: Automix , ,
SIZE: Automix Automix 가
OFFSET: , , ,
 "+" event
 . [ENTER] 0 "-"
INT START TIME: generator , , , 가
 "00" generator (Time Reference)
 (152).
UPDATE: event . TO
 END ,
 event가 Automix
 가 event가 , punch out
 . TO END , event가
 TO END , Fader event Fader Edit Edit Out
 , Fader Edit 가 Absolute . Fader
 Edit Relative , Edit Out Takeover Off , fader

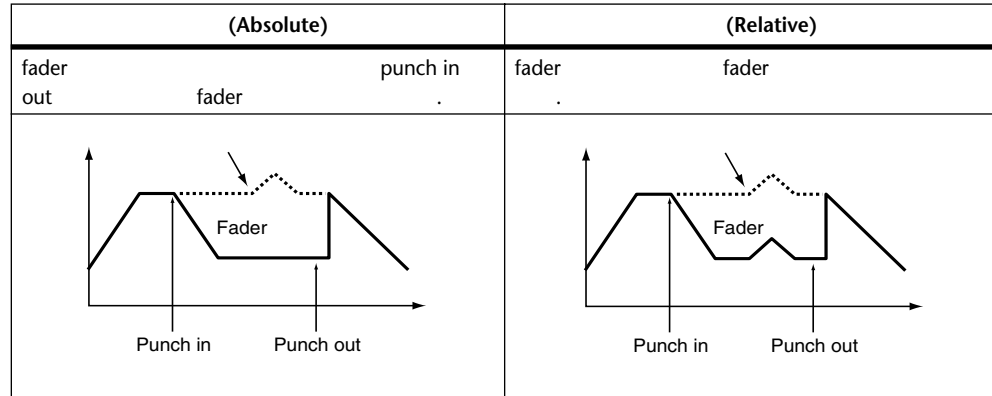
TO END	Return	Takeover Off
OFF	<p data-bbox="619 253 836 309">, fader가 Fader Edit fader</p> 	<p data-bbox="1331 264 1437 297">fader event</p> <p data-bbox="932 297 1161 331">가 fader가</p> 
ON	<p data-bbox="619 629 836 685">, fader가 fader event , Automix</p> <p data-bbox="485 685 571 741">가 , fader가</p> 	<p data-bbox="1267 651 1353 685">event가 ,</p> <p data-bbox="932 685 1082 719">fader가 Automix</p> 

EDIT OUT:

Off, Takeover, Return Edit Out
 Edit Out punch out fader fader
 . fader Input Channel , Bus Out , Aux Send
 , Stereo Out , Remote Layer fader
 Edit Out . Return Fader Edit (151)

Off	Return	Takeover
<p data-bbox="233 1350 368 1406">punch out Fader event가</p> <p data-bbox="496 1373 582 1406">fader가</p> 	<p data-bbox="638 1332 995 1366">punch out fader가 Fader Edit</p> <p data-bbox="734 1388 790 1422">, fader</p> 	<p data-bbox="1043 1332 1401 1388">punch out , fader 가</p> <p data-bbox="1043 1388 1425 1444">fader punch out fader knob , fader</p> <p data-bbox="1139 1444 1225 1478">fader가</p>  <p data-bbox="1315 1722 1425 1756">punch out</p> <p data-bbox="1043 1756 1297 1834">, [AUTO] out , punch out fader</p>

FADER EDIT: (Absolute) (Relative) Fader Edit
 . Fader Edit fader .
 fader 가 (Absolute) , fader
 (Relative) , fader fader
 fader Input Channel , Bus Out , Aux Send , Stereo
 Out , Remote Layer fader
 Fader Edit (TO END: off. Edit Out: off)



TIME REFERENCE:
 [ENTER] , Time Reference
 (152).

OVERWRITE:
 (,)
 . OVERWRITE

FADER	fader(Input Channel, Bus Out , Aux Send , Stereo Out, Remote Layer fader)
ON	(ON/OFF), [ON]
PAN	Input Channel Pan, Encoder
SURR	Input Channel Surround Pan, LFE , DIV
AUX	Aux Send 1-8
AUX ON	Aux Send 1-8
EQ	EQ (F, Q, G, On/Off)


Scene , effect OVERWRITE

NEW: Automix . Automix , Scene(, Scene)
 Scene event가 Automix Scene
 Automix 가 Automix

UNDO: Automix , Automix , Automix , Automix
 UNDO , Automix 가 , Automix
 02R96 Automix (123).

AUTO REC: Automix REC
 . Auto Record 가 .
REC: 가 Automix Record-Ready
 Ready . AUTO REC ,
 . Record-Ready ,
 Automix , PLAY
 (,), REC ()
 PLAY .
PLAY: , Automix
 , 가 ,
 . STOP ABORT
 Automix , 가
 . REC Automix
 punch in .
STOP: Automix . Automix가
 .
ABORT: Automix
 .

Channel Strip [AUTO]

Channel strip [AUTO] (arming) , 
 punch in out .
 [AUTO] indicator .
 • Off: Automix
 • : Automix
 • : Record Ready
 • : (, 156)
 • : Takeover
 • : , Takeover Edit Out , punch out
 fader , fader가 .

Automix Memory

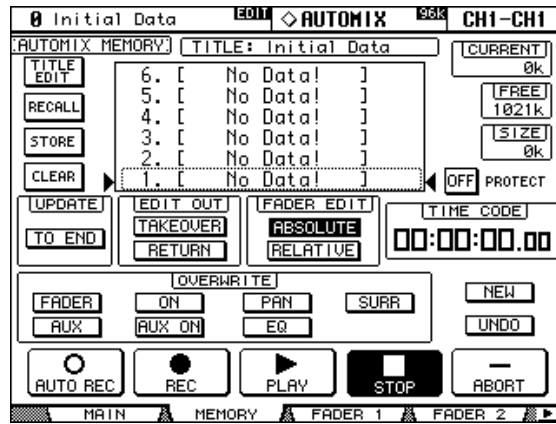
Automix Memory

Automix

Automix Main

1 DISPLAY ACCESS [AUTOMIX]

Automix Memory



2

INC/DEC , [ENTER]

Automix

130

"Automix"

146

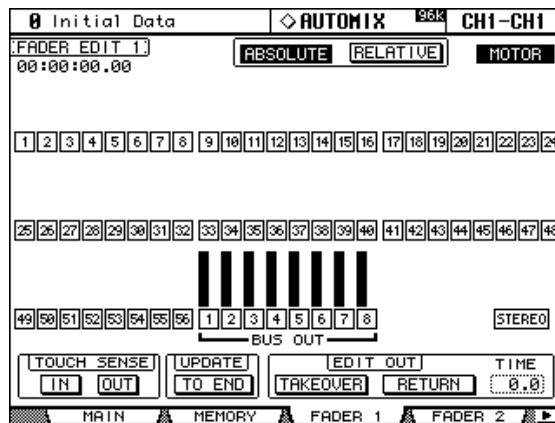
Fader Edit

fader 가 Fader Edit , Fader Edit
 가 . Fader Edit 1 Input Channel 1-56, Bus Out,
 Stereo Out fader . Fader Edit 2 Input Channel 1-56, Bus
 Out, Aux Send fader . Fader Fader , Input
 Output Channel . Aux , Aux Send .
 , fader 가 . fader
 가 fader .
 fader 가 fader .

1 DISPLAY ACCESS [AUTOMIX]

Fader Edit

Fader Edit 1



2

INC/DEC , [ENTER]

Edit Safe : fader Channel Safe , safe
 Automix . safe
 . [ENTER] safe
 가 , event가 fader, Encoder, [ON]
 , event Safe channel ,
 . Channel safe

ABSOLUTE **RELATIVE:** Main Memory .
 146 "Automix Main "
MOTOR: Automix fader .

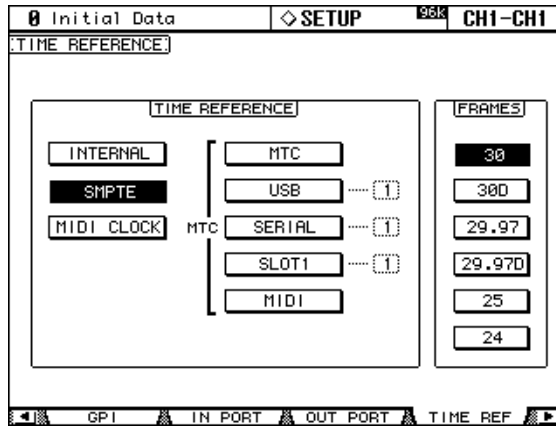
TOUCH SENSE: , fader knob fader
 punch in out . IN OUT

UPDATE: Main Memory .
 146 "Automix Main "
EDIT OUT: TAKEOVER RETURN Main Memory
 146 "Automix Main " TIME , Edit
 Out 가 Return fader가 Automix
 가 .0.0 30.0 0.1

Automix

1 DISPLAY ACCESS [SETUP]

Time Reference



2

, INC/DEC , [ENTER]

TIME REFERENCE:

INTERNAL		
SMPTE	SMPTE TIME CODE INPUT	SMPTE
MIDI CLOCK	MIDI IN	MIDI
MTC	MTC TIME CODE INPUT	MTC
USB	USB TO HOST	MTC
SERIAL	SERIAL TO HOST	MTC
SLOT1	1	MTC(1 mLAN I/O)
MIDI	MIDI IN	MTC

USB, SERIAL SLOT1 , 1-8

FRAMES: 30, 30D, 29.97, 29.97D, 25 24

가 Automix

MIDI CLOCK , F8 TIMING CLOCK(), FA START(Automix), FB CONTINUE(Automix), FC STOP(Automix)

MIDI CLOCK
가

1 DISPLAY ACCESS [SETUP]

Time Signature

MEAS	TIME	MEAS	TIME	MEAS	TIME	MEAS	TIME
1	4/4						

2

INC/DEC

, [ENTER] , 가
[ENTER] , 1

Automix

- 1 Automix .
- 2 .
- 3 152 " " .
- 4 **DISPLAY ACCESS [AUTOMIX] Automix Main** .
- 5 **Automix Main , ENABLED/DISABLED Automix**
가 .
- 6 **Automix Main , OVERWRITE**
OVERWRITE 가 .
- 7 **Automix Main , REC** .
REC
 , 가 Automix AUTO REC
 . REC AUTO REC , AUTO REC
 , REC
REC .
- 8 **[AUTO] Automix (arming)** .
[AUTO] indicator가 .
- 9 **REC PLAY** .
- 10 **fader control** .
SELECTED CHANNEL .[AUTO]
 . [AUTO] punch out
- 11 **Automix Memory STOP Automix Main** .
Automix (,)
가 .

event

event .
punch in event가 , OVERWRITE
[AUTO] . [AUTO] punch in
 , punch in out
(156) . Update To End , event
(146) . Edit Out(147) Fader
Edit(148) fader event .

		OVERWRITE		/
(fader)	Input	FADER	Fader , fader , Fader	(pairing) fader가 fader
	Bus Out, Aux Send		Fader , fader , Fader	
	Stereo Out		Stereo Out fader	
(ON/OFF)	Input	ON	, [ON]	[ON] 가
	Bus Out, Aux Send		, [ON]	
	Stereo Out		Stereo Out [ON]	
Pan	Input	PAN	Pan , Encoder (SELECTED CHANNEL PAN control [LINK]가)	Pan 가 Gang Inverse-Gang ,
Surround Pan	Input	SURR	([LINK]가 SELECTED CHANNEL PAN control 가 Encoder , Encoder)	Surround Edit ST LINK
EQ(F, Q, G, On/Off)	Input, Bus Out, Aux Send, Stereo Out	EQ	SELECTED CHANNEL EQUALIZER (EQ 가 Encoder , Encoder)	가 EQ EQ
Aux send 1-8	Input	AUX	Fader 가 Aux , fader .Encoder 가 Aux , Encoder (Aux Send Aux view)	Aux Send .(Aux Send가 , Aux)
Aux Send 1-8	Input	AUX ON	Aux Send Aux view	가 Aux Send가 Aux Send 가 (,)
Scene	-	-	SCENE MEMORY Scene	-
	EQ, Gate, Comp, Effect, Channel	-		-
Effect ()	Effect 1-4	-	control 1-4 (punch in/out)	-
(1-4)	14	-	control 1-4 (punch in/out)	-
Remote Layer	Fader	FADER	Remote Layer , fader	-
	[ON]	ON	Remote Layer , [ON]	-
	Encoder	PAN	Encoder Remote Layer ,	-

punch in/out

Automix , channel strip [AUTO] punch in/out
punch in/out

		OVERWRITE		Punch In	Punch Out
(fader)	Input	FADER	Fader , Fader	fader knob	fader knob
	Bus Out, Aux Send		fader , Fader	1	2
	Stereo Out		Stereo Out fader		
Pan	Input	PAN	Pan , Encoder (SELECTED CHANNEL PAN control, [LINK]가)	Encoder	Encoder
Surround Pan	Input	SURR	LFE Surround Pan Encoder	Encoder	Encoder
EQ(F, Q, G)		EQ	Auto EQ Edit In (199) (SELECTED CHANNEL EQUALIZER (EQ 가 Encoder , Encoder)	control	[AUTO]
EQ On/Off				EQ [ON]	[AUTO]
Aux send 1-8	Input	AUX	Aux , Fader	fader knob 1	fader knob 2
			Aux , Encoder	Encoder	Encoder
Effect ()	Effect 1-4	-	effect	1-4 control	1-4 control
(1-4)	1-4	-		1-4 control	1-4 control
Remote Layer	Fader	FADER	Remote Layer	fader knob 1	fader knob 2
	Encoder	PAN	Remote Layer	Encoder	Encoder

- 1. Fader Edit
- 2. Fader Edit

TOUCH SENSE IN
TOUCH SENSE OUT

Automix control punch in ,
OVERWRITE ,
가 , control punch out ,
punch out .

Automix [AUTO] punch in , OVERWRITE
가 . [AUTO]
punch out , 가 punch out .
fader가 , OVERWRITE FADER , [AUTO]
fader knob (Fader Edit TOUCH SENSE가)
Record [AUTO] indicator가
(OVERWRITE ON) EQ(OVERWRITE EQ)

Automix

Automix 가 , Automix
Automix . Automix
. Automix Main Memory STOP ABORT
가 .
. Automix Main Memory
PLAY Automix , STOP .
Channel strip [AUTO] Automix .
, [AUTO] indicator가 . Automix
, [AUTO] indicator가 .
, fader Fader event (Fader 가
). fader fader (151). fader
event Fader Edit (151).
event indicator .
event가 SELECTED CHANNEL control .
effect effect ,
. effect
, effect event .
158 "event "

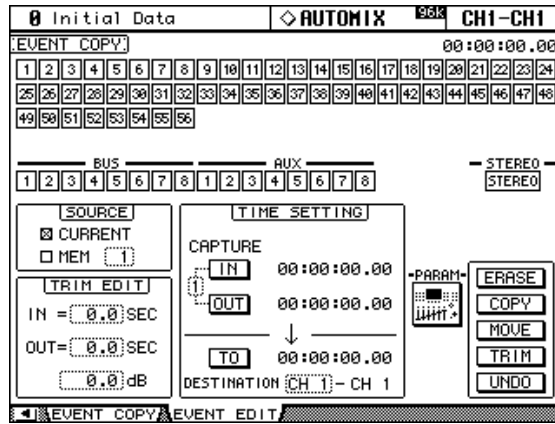
event

Event Copy Event Edit Automix event
Automix

Event Copy

Event Copy , In Out event

1 DISPLAY ACCESS [AUTOMIX] Event Copy



2 , INC/DEC , [ENTER]

가 Input Channel Output Channel Automix ,

가 Scene event effect event

SOURCE: / Automix
CURRENT, Automix, MEM 1-16 Automix
MEM , MOVE MERGE
Automix

TIME SETTING: IN OUT Automix

[ENTER] INC/DEC

가 "00" 8 IN OUT 8

INC/DEC

TO / .TO

[ENTER] TO . [ENTER]
INC/DEC . [ENTER]

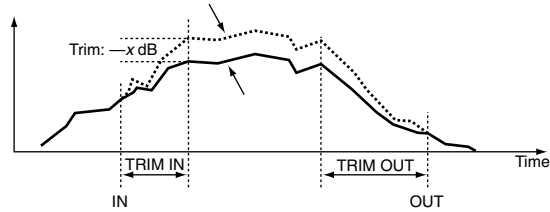
0 /

DESTINATION

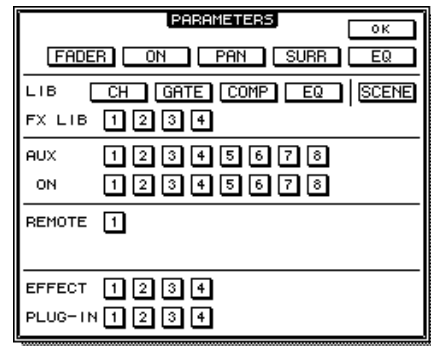
Channel 1-8 , 8 ,

TRIM EDIT: TRIM IN TRIM OUT 0.5 dB
 . TRIM IN fader
 . TIME SETTING IN

TRIM OUT fader 가
 TIME SETTING OUT



PARAM: , , , /
 PARAMETERS 가
 가 ,



		event
FADER		Fader event(Input Channel, Bus Out , Aux Send , Stereo Out)
ON		event
PAN		Input Channel pan event
SURR		Input Channel Surround pan, LFE , DIV event
EQ		EQ event
LIB	CH	event
	GATE	Gate event
	COMP	Comp event
	EQ	EQ event
	SCENE	Scene event
FX LIB	1-4	effect effect event
AUX	1-8	Aux Send event
ON	1-8	Aux Send event
REMOTE	1	event
EFFECT	1-4	effect event
PLUG-IN	1-4	event

ERASE : Automix
 . IN OUT
 PARAMETERS Automix event ERASE
 [ENTER]

COPY : Automix .
 . IN OUT .
 TO . DESTINATION .
 . PARAMETERS .
 Automix event . COPY [ENTER]
 event .

MOVE/MERGE : Automix / .
 event , SOURCE CURRENT .
 . IN OUT . TO .
 . DESTINATION .
 . PARAMETERS .
 Automix event . MOVE [ENTER] .
 Automix event , SOURCE MEM Automix
 . IN OUT .
 . TO .
 . DESTINATION .
 PARAMETERS Automix event . MERGE
 [ENTER] .

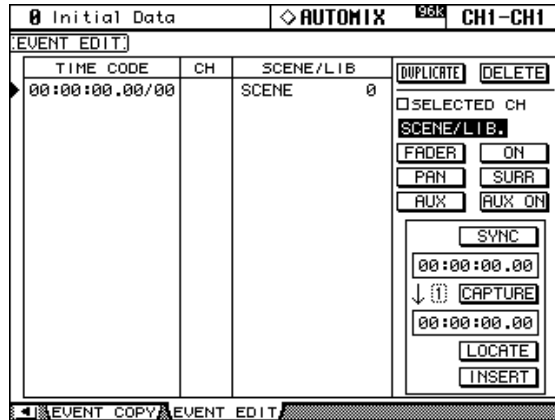
TRIM : Automix .
 . IN OUT .
 TRIM EDIT IN OUT TRIM IN OUT ,
 . PARAMETERS Automix event (.
). TRIM [ENTER] .
 , PARAMETERS , FADER(, Input Channel, Bus Out , Aux Send
 , Stereo Out), AUX 1-8 (, Aux Send 1-8) fader event .

UNDO : Automix Main UNDO .
 148 "UNDO" .

Event Edit

Event Edit , event , , .

1 DISPLAY ACCESS [AUTOMIX] Event Edit .



2 , INC/DEC , [ENTER]

Event : Automix event가 . event event
event 가

DUPLICATE, DELETE, SELECTED CH, event SYNC ,
INC/DEC 가 event
, control event . event ,

DUPLICATE : event event
, DUPLICATE [ENTER] . event
event event가 , event
event .

DELETE : event event
, DELETE [ENTER] .

SELECTED CH: , event . Scene
Effect event (pairing)
, event .

Event : event event .

	event	
SCENE/LIB	Scene event	TIME CODE, CH, SCENE/LIB
FADER	fader(Input Channel, Bus Out , Aux Send , Stereo Out)	TIME CODE, CH, dB, SEC
ON	(ON/OFF)	TIME CODE, CH, ON/OFF
PAN	Pan	TIME CODE, CH, L-C-R
SURR	Surround pan	TIME CODE, CH, SURR
AUX	Aux Send 1-8	TIME CODE, CH, AUX, dB
AUX ON	Aux Send 1-8	TIME CODE, CH, AUX, ON/OFF

SYNC : , 가 가 event가 . Automix

CAPTURE : . 8
8
, INC/DEC
CAPTURE, LOCATE INSERT
.
Inc TC (199),
가 가 .
(Link Capture & Locate Memory) (199
) , 8 가8 , 가
1 1 , 가
.
:
INC/DEC . [ENTER]
가 "00"
LOCATE : event
INSERT : event . event event
event
. INSERT [ENTER]

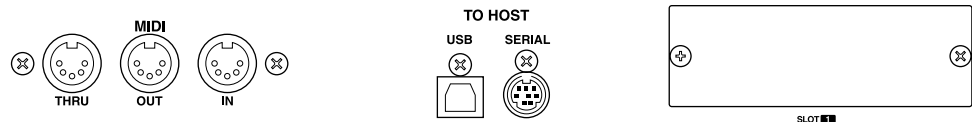
17 MIDI

MIDI 02R96

- 02R96 MIDI .
- Scene Program Change(183)
- control Control Change(167)
- control Parameter Change(167)
- effect MIDI On/Off(244)
- Scene, (168)
- Automix MTC MIDI (154)
- control MMC(192)
- control 1-4 , MIDI (135)
- Channel strip fader, Encoder [ON] , 가 MIDI (189)
- (169) DAW() control Remote Layer

MIDI I/O

- 02R96 MIDI 가 .
- MIDI
- TO HOST USB
- TO HOST SERIAL
- SLOT1(Slot 1 mLAN I/O)



TO HOST SERIAL, TO HOST USB SLOT1 8

02R96 MIDI , MIDI indicator가 (29).

CD-ROM TO HOST USB TO HOST SERIAL YAMAHA CBX YAMAHA USB ,

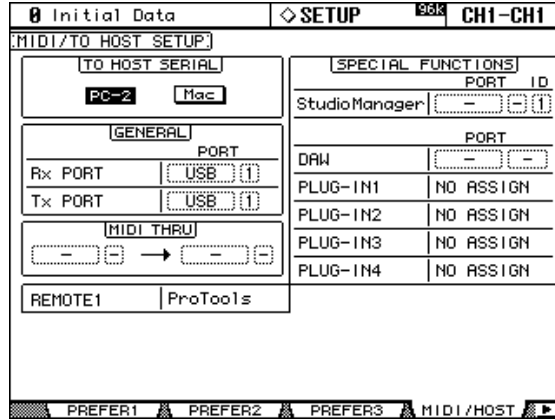
CD-ROM TO HOST USB TO HOST SERIAL YAMAHA USB OMS 2.3.8 ,

MIDI

MIDI

1 DISPLAY ACCESS [SETUP]

MIDI/TO HOST Setup



2 , INC/DEC , [ENTER]

TO HOST SERIAL: PC TO HOST SERIAL

: TO HOST SERIAL PC , PC가

GENERAL: Scene Program Change, control Control
Change, effect On/Off MIDI

1-8, SLOT1 1-8 가 , MIDI, SERIAL 1-8, USB

MIDI THRU: MIDI 가 , MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8

REMOTE1: Remote Layer 가
MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8 . Pro Tools Remote Layer
"Pro Tools"

Studio Manager: Studio Manager 1-8
02R96 ID 가 MIDI, SERIAL
1-8, USB 1-8, SLOT1 1-8 Studio Manager

DAW: DAW . DAW
3 가 , 1-3, 2-4, 3-5, 4-6, 5-7, 6-8 3
가 SERIAL, USB, SLOT1

PLUG-IN1-4: Slot 가 ,
USER DEFINED , MIDI, SERIAL 1-8, USB 1-8
SLOT1 1-8
Plug-In Setup (135).

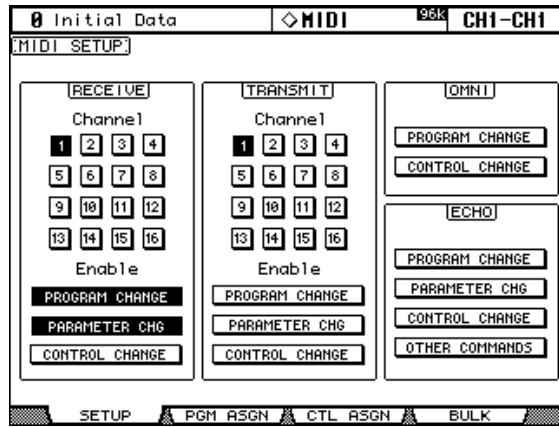
: , "Change port?" 가 . YES ,
"NO ASSIGN"

MIDI

MIDI

1 DISPLAY ACCESS [MIDI]

MIDI Setup



2

, INC/DEC

[ENTER]

RECEIVE: , MIDI MIDI
 Enable Program Change, Parameter Change Control Change

TRANSMIT: , MIDI MIDI
 Enable Program Change, Parameter Change Control Change

OMNI: Program Change Control Change 02R96
 MIDI

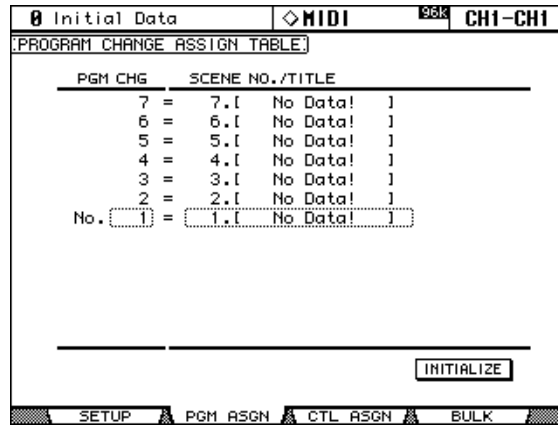
ECHO: MIDI IN Program Change, Parameter Change, Control Change
 MIDI OUT

Scene Program Change

MIDI Program Change 02R96 Scene .02R96
 Scene , Program Change 가 . Scene
 Program Change ,가 Program Change가 .
 가 , Program Change 가 , Scene . Program
 Change MIDI (165
).

Scene 1-99가 Program Change 1-99 . Scene
 0 Program Change 100 . Scene Program Change Assign
 Table 273 ,
 .MIDI (168) ,MIDI
 MIDI .

1 DISPLAY ACCESS [MIDI] Program Change Assign Table



2 PGM CHG , INC/DEC
 Program Change .

3 SCENE No/TITLE , INC/DEC
 Scene .

INITIALIZE [ENTER] Scene Program Change Assign Table

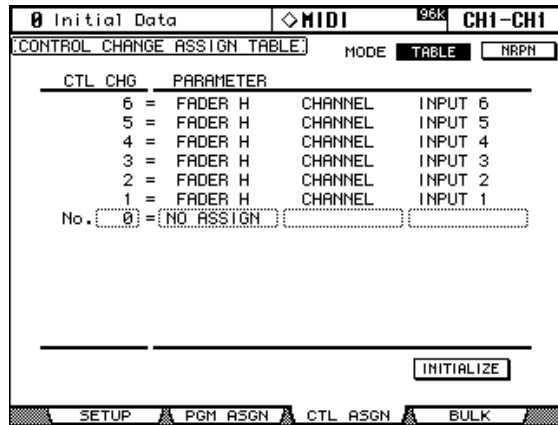
Control Change

control MIDI Control Change 02R96
 02R96 , Control Change 가
 가 , Control Change 가 , 02R96 가
 Control Change MIDI (165
).

Control Change Assign Table가 274

. MIDI (168) , MIDI
 MIDI

1 DISPLAY ACCESS [MIDI] Control Change Assign Table



2 MODE TABLE , [ENTER]
 TABLE , 02R96 , MIDI Control Change 가
 . NRPN , 02R96
 NRPN(Non Registered Parameter Number:)가

3 CTL CHG. , INC/DEC
 Control Change .

4 PARAMETER , INC/DEC
 128 가 MIDI Control Change 가
 . Delay fader L H .Delay
 LOW, MID, HIGH
 Control Change (, fader L H)
 INITIALIZE [ENTER] Control Change Assign Table

Parameter Change

control

Parameter Change 02R96
 . 02R96 , Parameter Change 가
 가 , Parameter Change 가 , 02R96 가
 . "MIDI " . Parameter Change
 MIDI (165).

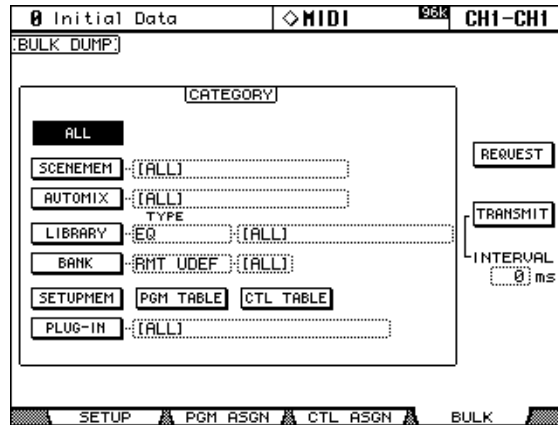
MIDI

MIDI

MIDI

02R96

1 **DISPLAY ACCESS [MIDI] Bulk Dump**



2 , CATEGORY
 , TRANSMIT [ENTER]

3 , CATEGORY
 , REQUEST [ENTER]

INTERVAL

CATEGORY

ALL:

SCENE MEM: Scene, Scene Scene(,).

AUTOMIX: Automix, Automix Automix.

LIBRARY: EQ, Gate, Comp, Channel, Effect, Bus to Stereo, Input Patch, Output Patch, Surround Monitor

, Bus to Stereo, Input Patch, Output Patch, Surround Monitor

BANK:

SETUP MEM: 02R96 (,).

PGM TABLE: Scene MIDI Program Change Table. 166 "Scene
 Program Change "

CTL TABLE: MIDI Control Change Table. 167 "
 Control Change "

PLUG-IN: Y56K . Slot Slot 3 4

18 Pro Tools Remote Layer

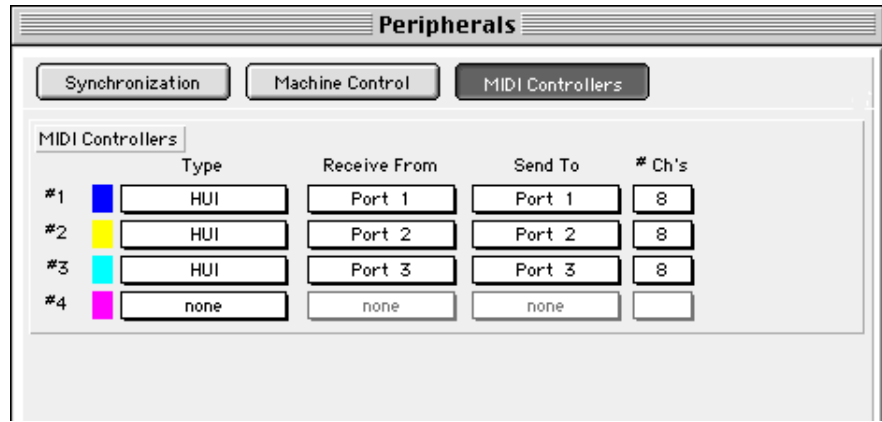
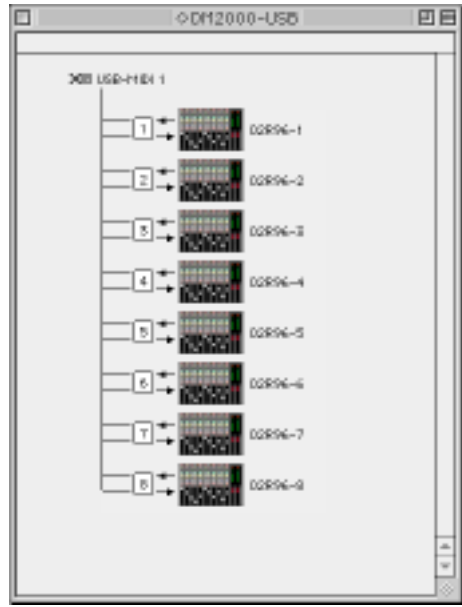
- 02R96 Pro Tools Remote Layer
 MB02R96 가 , Pro Tools
- 1 **PC**
 PC RS232 TO HOST SERIAL PC USB
 TO HOST USB , PC 02R96 .TO HOST
 SERIAL , MIDI/TO HOST Setup TO HOST SERIAL
 가 PC-2 (164).
 - 2
 PC ,02R96 CD-ROM TO HOST SERIAL TO
 HOST USB .
 - 1
 TO HOST SERIAL ,
 USB TO HOST USB , 02R96
 .TO HOST SERIAL , MIDI/TO HOST TO
 HOST SERIAL 가 Mac (164).
 - 2 **OMS**
 02R96 OMS(Open Music System) Pro Tools
 OMS가 , 가 , 가
 . OMS가 , 02R96 CD-ROM
 . 02R96 CD-ROM OMS .
 - 3 **Yamaha USB MIDI 1.04**
 TO HOST USB , 02R96 CD-ROM Yamaha USB
 MIDI .

02R96

- 1 **DISPLAY ACCESS [SETUP]** MIDI/TO HOST Setup , DAW
 Pro Tools
 164 "MIDI "
- 2 **DISPLAY ACCESS [REMOTE]** Remote , Pro Tools
 .
 189 "Remote Layer "
- 3 **LAYER [REMOTE]** Remote Layer .
 Pro Tools Remote Layer , 02R96 control 02R96 Pro
 Tools . 02R96 , Input Channel Layer Master Layer
 Layer Automix Pro Tools Layer가

Pro Tools

- 1 Pro Tools 가 . Pro Tools
- 2 **OMS Studio Setup** , **OMS**
 Yamaha USB MIDI 8
 . 02R96 OMS-
 02R96 CD-ROM
- 3 **Peripherals** .
- 4 **Peripherals** , **MIDI Controllers** .



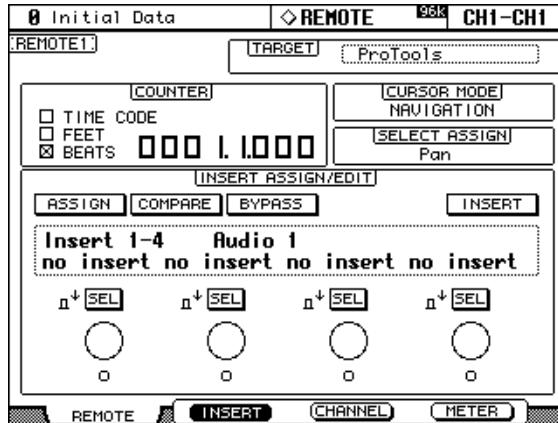
- 5 controller **HUI** .
- 6 **Receive From** **Send To** , **OK** .
 02R96 8- Pro Tools MIDI controller 3
 . 8 MIDI 가 . MIDI Controller
 2 9-16 , MIDI Controller 3 17-24

Control

Pro Tools Remote Layer

Pro Tools Remote Layer가 02R96 control
 . 02R96 control 02R96 , "AUX SELECT [AUX 1] (SEND A)
 " .

Pro Tools Remote Layer



F2 (INSERT), F3 (CHANNEL), F4 (METER)

- [F2]- Insert Assign/Edit Display (172)
- [F3]- Channel Display (172)
- [F4]- Meter Display (173)

TARGET

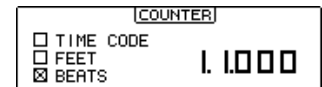
Layer , DISPLAY ACCESS [REMOTE]
 189 "Remote Layer "

COUNTER

Pro Tools

3

Pro Tools
가



TIME CODE: Pro Tools "Time Code"

FEET: Pro Tools "Feet:Frames"

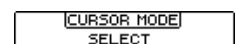
BEATS: Pro Tools "Bars:Beats"

Pro Tools "Minutes:Seconds" "Samples" , 가

CURSOR MODE

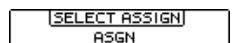
NAVIGATION, ZOOM, SELECT 가

[INC] (CURSOR MODE)



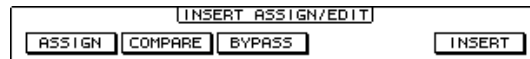
SELECT ASSIGN

Encoder , Pan (PanR), SndA,
 SndB, SndC, SndD, SndE



INSERT ASSIGN/EDIT Display

[F2]



ASSIGN: EFFECTS/PLUG-INS [1] (ASSIGN) indicator가
 182 "Insert/ "

COMPARE: EFFECTS/PLUG-INS [2] (COMPARE) indicator가
 183 " "

BYPASS: EFFECTS/PLUG-INS [3] (BYPASS) indicator가
 183 " 184 "

INSERT: EFFECTS/PLUG-INS [4] (INSERT/ASSIGN) indicator가
 183 " "

INSERT/PARAM



insert 가 ,

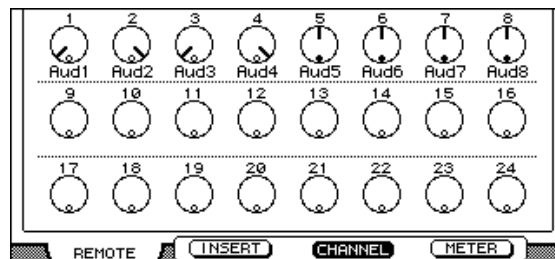
Encoder



control 1-4 SEL indicator
 control Push Switch on/off rotary control indicator
 control "O" control
 Automation

Channel Display

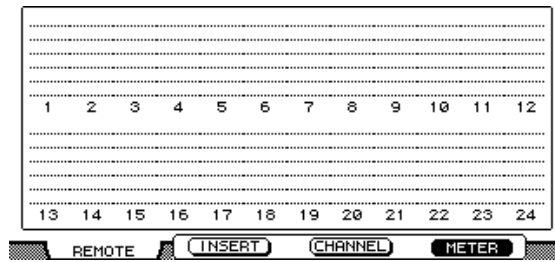
[F3]



pan aux send). panpot Encoder control (,
 Encoder .Automation
 , aux send aux send pre/post
 187 "Automation ", 180 "Send "
 180 "Send Pre/Post "

Meter Display

[F4]



stereo 가
Automation , aux send aux send pre/post
187 "Automation", 180
"Send" " 180" "Send Pre/Post" "

Channel strip

02R96 Channel strip Pro Tools , 가
02R96 Channel strip 1 Pro Tools
Channel strip ,
02R96 Channel Strip . USER DEFINED KEYS
, Pro Tools 24 (176)
AUTO
SEL
SOLO
ON

Encoder Push Switch

Encoder pan send . Encoder Push Switch send
panpot send pre post fader
Encoder

Encoder	Encoder	Push Switch
[PAN]	Pan(179)	Pan (184)
[SEND LEVEL]	Send (180)	Send pre/post (180) Send (184)

[AUTO]

USER DEFINED KEYS [3-8] Automation
187 "Automation" "

[SEL]

(179) insert (183)

[SOLO]

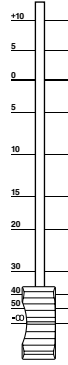
" 179 "

[ON]

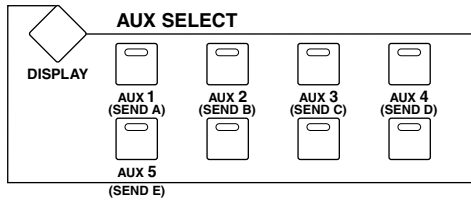
179 " "

Fader

fader (179) Flip send (181)

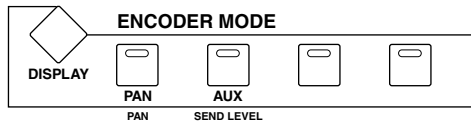


AUX SELECT



AUX SELECT [AUX 1-5] A-E indicator가

ENCODER MODE



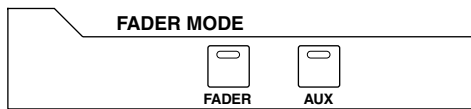
[PAN] (PAN)

가 , Encoder가 panpot 179 " " indicator

[AUX] (SEND LEVEL)

indicator가 , Encoder가 control , indicator가 , A가 .Encoder가 pan , indicator가 , AUX SELECT [AUX 1-5](SEND A-E) , indicator가

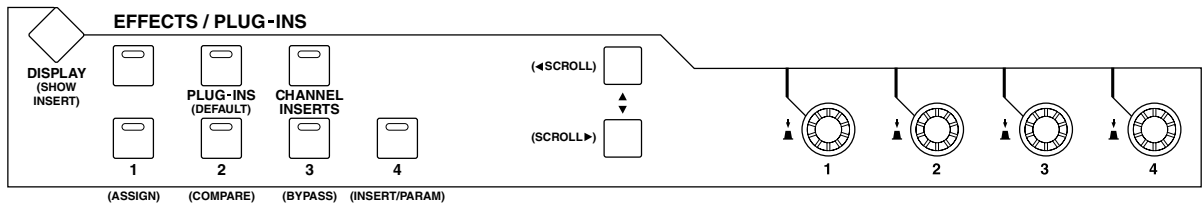
FADER MODE



[FADER] [AUX]

Fader, Encoder, [ON] 181 send "Flip " Flip

EFFECTS/PLUG-INS



[DISPLAY] (SHOW INSERT)

[PLUG-INS] (DEFAULT)

control fader, panpot, send
184 "Fader, Send panpot "

[CHANNEL INSERTS]

[SEL] . indicator가 (),
[SEL] (179). indicator가 (Insert
Select), insert/ (183).

[1] (ASSIGN)

control insert/
182 "Insert/ "

[2] (COMPARE)

" " 183

[3] (BYPASS)

" 184 " " 183 "

[4] (INSERT/PARAM)

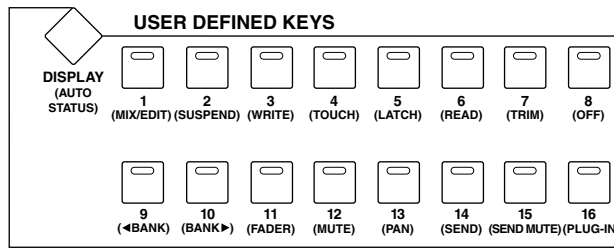
" " control 183

Up (◀ SCROLL)

Down (SCROLL ▶)

Insert ,
182 "Insert/ " 183 " "

USER DEFINED KEYS



[DISPLAY] (AUTO STATUS)

Automation
187 "Automation"

[1] (MIX/EDIT)

Mix Edit

[2] (SUSPEND)

automation . automation
indicator 7†

[3] (WRITE), [4] (TOUCH), [5] (LATCH), [6] (READ), [7] (TRIM), [8] (OFF)

Channel strip [AUTO] channel strip Automation
187 "Automation"

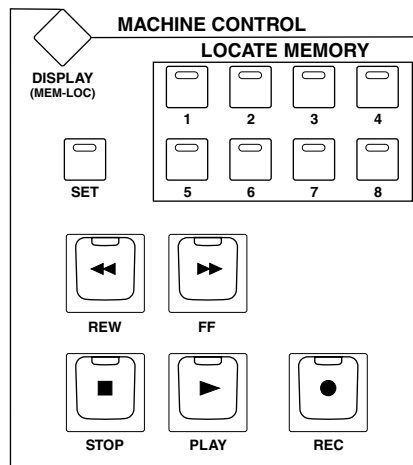
[9] (←BANK) [10] (BANK▶)

24

[11] (FADER), [12] (MUTE), [13] (PAN), [14] (SEND), [15] (SEND MUTE), [16] (PLUG-IN)

automation .
188 "Automation"

MACHINE CONTROL



[DISPLAY] (MEM-LOC)

Memory Locations

LOCATE MEMORY [1-8]

Pro Tools 1-8 "Classic" panpot (, Preferences),
1-8 .

[REW]

rewind (-).

[FF]

fast forward (-).

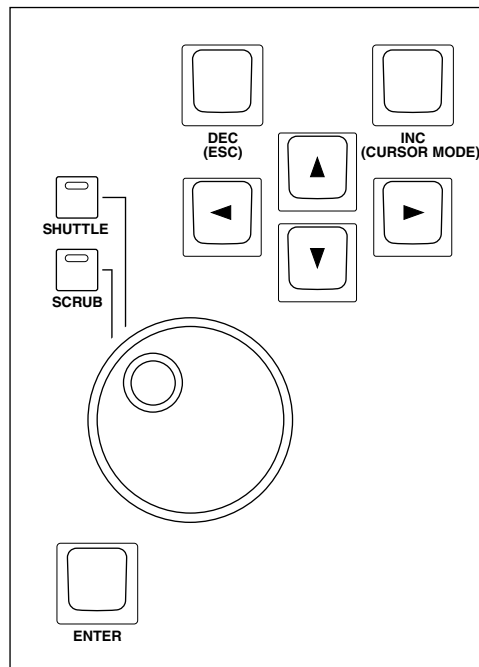
[STOP]

[PLAY]

[REC]

Pro Tools ([REC] indicator가),
[PLAY] ([REC] indicator가).

MACHINE CONTROL Pro Tools Remote Layer가 Pro
Tools . Locate Memory (194) Machine
Configuration (192) DAW CONTROL ,
Layer MACHINE CONTROL Pro Tools .



shuttle scrub (185) (186) .

[SHUTTLE] [SCRUB]

shuttle scrub . 186
"Scrub Shuttle" .

[ENTER]

Enter 가 . 가 . New ,
Memory Location 가 . 가 ,
OK .

[DEC] (ESC)

가 , Esc .
, Cancel .

[INC] (CURSOR MODE)

Navigation(184), Zoom(185), Select(185)

Edit (184), (185),
(185) .

(.) EFFECTS/PLUG-INS [CHANNEL INSERTS] indicator
 1 [SEL] indicator가
 2 8 (, 1-8, 9-16, 17-24), [SEL]
 가 [SEL]

(.) FADER MODE [FADER] [AUX] indicator가
 1 fader fader

1 [ON] indicator가
 2 [ON] indicator가

1 ENCODER MODE [PAN] (PAN) indicator가
 2 Encoder Pan 가 Channel Display 172
 "Channel Display "
 stereo aux input channel (, panpot가2), ENCODER MODE [PAN] (PAN)
 panpot , Encoder panpot가
 , ENCODER MODE [PAN] (PAN) indicator가
 SELECT ASSIGN "Pan" panpot가 ,
 ENCODER MODE [PAN] (PAN) indicator가 SELECT
 ASSIGN "PanR"

1 [SOLO] indicator [SOLO] indicator가 [ON]
 2 [SOLO]

Send

AUX SELECT [AUX 1-5](SEND A-E) , Channel Display [F3]
 Meter Display [F4](172)) Send .

Send Pre/Post

- send pre post .
- (ENCODER MODE [PAN] (PAN) indicator .)
- 1 **AUX SELECT [AUX 1-5] (SEND A-E) send** .
 ENCODER MODE [AUX] (SEND LEVEL) indicator 7† , send
 indicator .
 - 2 **Encoder Push Switch pre post** .
 Flip Encoder Push Switch send pre post fader
 . 181 "Flip " .
 Encoder Push Switch , Channel Display [F3] Meter Display
 [F4](172)) send pre/post .

Send

- Send .
- 1 **AUX SELECT [AUX 1-5] (SEND A-E) send** .
 ENCODER MODE [AUX] (SEND LEVEL) indicator 7† , send
 indicator .
 send Channel Display . 172
 "Channel Display " .
 - 2 **Encoder send** .
 Flip fader send . 181
 "Flip " .

Send

Flip [ON] send . 181
 "Flip " .

Send

Stereo send . 181 . Flip Encoder send
 . "Flip " .

Flip

, Flip fader, Encoder [ON] send

Control		Flip
Fader		Send
Encoder	pan/send	Send pan
Encoder Push Switch	Encoder Pan, Encoder Send, Send pre/post	Send pre/post
[ON]		Send

- 1 **FADER MODE [FADER] [AUX]**
 FADER MODE [FADER] [AUX] indicator가, ENCODER MODE [PAN] (PAN) [AUX] (SEND LEVEL) indicator가
 SELECT ASSIGN "FLIP"
- 2 **AUX SELECT [AUX 1-5] (SEND A-E)**
 send indicator가
- 3 **fader, Encoder [ON] send**
 Stereo aux input channel (, send panpot가 2), ENCODER MODE [PAN] (PAN) panpot, Encoder panpot가, ENCODER MODE [PAN] (PAN) indicator가
 panpot가, ENCODER MODE [PAN] (PAN) indicator가

Insert/

	insert		Pro Tools
1	EFFECTS PLUG-INS [CHANNEL INSERTS]		
	indicator가	[SEL] Insert Select	
2	[SEL] insert		
		INSERT/PARAM	Pro Tools Mix
	가	가	
3	EFFECTS/PLUG-INS [1] (ASSIGN)		
	indicator가	, ASSIGN indicator	
4	control 1-4 insert/		
	insert/		insert/
		SEL	
5		control Push Switch	
	SEL		
	EFFECTS/PLUG-INS [1] (ASSIGN)	indicator가	
	insert/	. insert 5	, Down
	(SCROLL >)	. insert 1-4	Up (< SCROLL)
	insert/	, [SEL]	
		EFFECTS/PLUG-INS [1] (ASSIGN)	
	[DEC] (ESC)		

- 1 **EFFECTS PLUG-INS [CHANNEL INSERTS]**
indicator가 [SEL] Insert Select
- 2 **[SEL]**
가 [SEL] indicator가 , Pro Tools Mix insert 가
INSERT ASSIGN/EDIT
- 3 **control 1-4 Push Switch**
Plug-in Edit 가 , 가 INSERT
ASSIGN/EDIT . EFFECTS/PLUG-INS [4] (INSERT/PARAM)
indicator가 , PARAM indicator가
- 4 **control 1-4 Push Switch**
Push Switch
control
- 5 **Down (SCROLL >)** **Up (< SCROLL)**
가 가 , "1/2" 가 가
"3/4"
- EFFECTS/PLUG-INS [3] (BYPASS)
BYPASS indicator가
COMPARE indicator가
EFFECTS/PLUG-INS [2] (COMPARE)
COMPARE indicator가
가
- 6 **EFFECTS/PLUG-INS [4] (INSERT/PARAM)**
(indicator가), [SEL] (2),
control 1-4 Push Switch (3).

(EFFECTS/PLUG-INS [4] (INSERT/PARAM) indicator
.)

1 EFFECTS PLUG-INS [CHANNEL INSERTS]

indicator } [SEL] Insert Select

2 [SEL]

3 EFFECTS/PLUG-INS [3] (BYPASS) Switch

control 1-4 Push

5 , Down (SCROLL >) , 3
Up (< SCROLL) 1-4

"d-verb" , "D-Verb"
"D-VERB"

Fader, Send panpot

fader, panpot send . fader send control
"0" , panpot

EFFECTS PLUG-INS [CHANNEL INSERTS]

indicator

...	!
fader	EFFECTS PLUG-INS [PLUG-INS]+[SEL]
panpot	[PAN], EFFECTS PLUG-INS [PLUG-INS]+[ENCODER push]
send	AUX SELECT [AUX1-5], EFFECTS PLUG-INS [PLUG-INS]+[ENCODER push]

EFFECTS PLUG-INS [PLUG-INS] (DEFAULT) , indicator }
SELECT ASSIGN "DFLT"

Edit

1 [INC] (CURSOR MODE)

Navigation

CURSOR MODE "NAVIGATION"

2

3

4 , Up

5 , Down

(Zooming)

		Edit	.
1	[INC] (CURSOR MODE)	Zoom	.
	CURSOR MODE	"ZOOM"	.
	(Zoom)	,	.
•	:	.	.
•	:	.	.
•	Up	:	.
•	Down	:	.
1	[INC] (CURSOR MODE)	Select	.
	CURSOR MODE	"SELECT"	.
2	.	In	.
3	.	Out	.
4	.	, Up	.
5	.	, Down	.
6	In	,	.
7	Out	,	.

Scrub Shuttle

- 1 Pro Tools가 scrub shuttle .
- 2 scrub [SCRUB] , shuttle [SHUTTLE] .
 indicator가 . [REW] [FF] indicator , 가
 Navigation (CURSOR MODE "NAVIGATION"
).
- 3 scrub/shuttle scrub/shuttle .
 In scrub/shuttle . ,
 가 . , Pro Tools Edit Insertion Follows Scrub/Shuttle
 (, Preferences ,) , [SCRUB] [SHUTTLE]
 .
 In . Out
 .
 [SCRUB] [SHUTTLE] scrub shuttle ,
 scrub shuttle .
- 4 scrub/shuttle , [SCRUB] [SHUTTLE]
 [STOP] .
 [REW], [FF] [PLAY] , rewind, fast forward
 scrub/shuttle .
 scrub/shuttle , Pro Tools/02R96 control , [SCRUB] [SHUTTLE]
 , fader, [ON] , [SOLO] .
 [ENTER] .
 scrub , 가 .

Automation

Automation

- Automation
- [F3] [F4]
Channel Display Meter Display 가 .
 - [AUTO]
[AUTO] Automation 가 .

Pro Tools		[AUTO] indicator
Auto write	Wrt	() ()
Auto touch	Tch	
Auto latch	Ltch	
Auto read	Read	
Auto off	Off	Off

MIDI , "-" .

Automation

- USER DEFINED [DISPLAY] (AUTO STATUS)**
USER DEFINED [DISPLAY] (AUTO STATUS) , Automation
가 .

Automation

- Automation
- [AUTO] , USER DEFINED [3] (WRITE), [4] (TOUCH), [5] (LATCH), [6] (READ), [7] (TRIM) [8] (OFF)
Channel Display Meter Display 가 , [AUTO]
Automation 가 .

Trim

- 1 **[AUTO]** Trim, **USER DEFINED KEYS [7] (TRIM)**
 Channel Display [F3] Automation 가 [F4]가, [AUTO]

Pro Tools		[AUTO] indicator
Auto trim/write	TWrt	/ ()
Auto trim/touch	TTch	
Auto trim/latch	TLch	
Auto trim/read	TRd	/

USER DEFINED KEYS [DISPLAY] (AUTO STATUS)
 Automation

Automation

- 1 **USER DEFINED KEYS** Automation

USER DEFINED KEYS	Pro Tools
[11] (FADER)	
[12] (MUTE)	
[13] (PAN)	Pan
[14] (SEND)	Send
[15] (SEND MUTE)	Send
[16] (PLUG-IN)	

indicator가

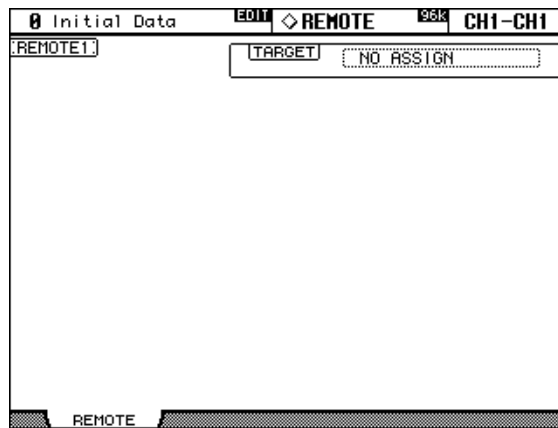
19 Remote control

Remote Layer

02R96 Remote Layer 02R96 MIDI
 (,) Remote , Nuendo,
 Pro Tools 가 24 channel strip fader, Encoder
 [ON] MIDI
 automation Scene . Nuendo Pro Tools
 Nuendo Pro Tools

Remote Layer

- 1 DISPLAY ACCESS [REMOTE] Remote 1-4



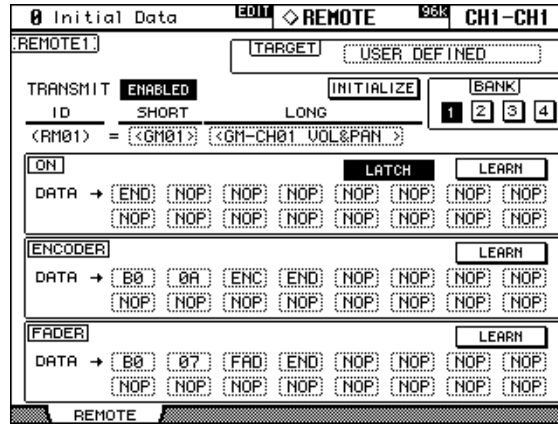
- 2 TARGET , [ENTER] INC/DEC

TARGET: NO ASSIGN, USER DEFINED, Nuendo(Nuendo) Pro Tools(Pro Tools)
 Pro Tools 169 190

Remote Layer

Remote Layer

1 DISPLAY ACCESS [REMOTE] Remote



2 , INC/DEC , [ENTER]

TARGET: ().

TRANSMIT: Remote Layer MIDI 가 .

INITIALIZE:

BANK: 1, 2, 3, 4 . 24 fader, Encoder

[ON] MIDI . MIDI MIDI (168).

204 "USER DEFINED KEYS "

ID/SHORT/LONG: Remote Layer , channel strip 1-247 ID RM01- RM24

. Remote channel strip

, SHORT LONG , [SEL] ,

INC/DEC channel strip , [ENTER] . Title

Edit , OK . 32

"Title Edit "

ON: [ON] MIDI (16)

. [SEL] channel strip ,

00 FF , [ON] .SW

, [ON] 7F 가 , [ON] 00

.END .NOP 가

UNLATCH/LATCH: - [ON]

. UNLATCH , ON , OFF

. LATCH , ON

, OFF

LEARN: Learn , MIDI

, MIDI 가 DATA .

16 .

ENCODER: Encoder MIDI (16)
 . [SEL] channel strip ,
 .00 FF , Encoder . ENC
 , Encoder 0-127 Encoder . END
 . NOP 가 .
LEARN: [ON] , MIDI 가
 ENCODER DATA .

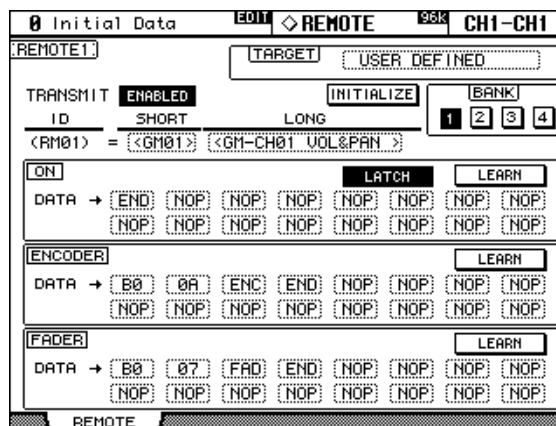
FADER: fader MIDI (16)
 . [SEL] channel strip ,
 00 FF , fader . FAD
 , fader 0-127 fader . END
 . NOP 가 .
LEARN: [ON] , MIDI 가
 FADER DATA .

Remote Layer

Remote Layer가

1 LAYER [REMOTE]

Remote Layer



Remote Layer , channel strip fader, Encoder [ON]
 MIDI 가 .
 Remote Layer , Remote 가 . DISPLAY
 ACCESS [REMOTE] Remote
 Layer , 가 .
 channel strip fader, Encoder [ON] , Remote Layer
 Scene . Scene , Remote Layer Scene
 , fader, Encoder [ON]
 MIDI 가 (, TRANSMIT 가 ENABLED).
 , fader, Encoder [ON] , MIDI

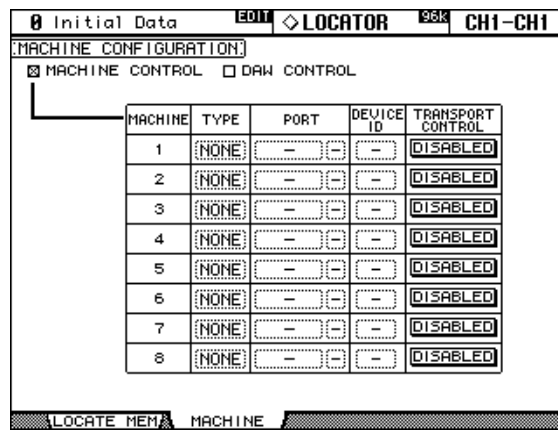
control

02R96 , MMC(MIDI Machine Control) 8

MMC 02R96 MIDI, SERIAL, USB SLOT1(Slot 1
 mLAN I/O)
 MMC

8

1 MACHINE CONTROL [DISPLAY] (Machine Configuration)

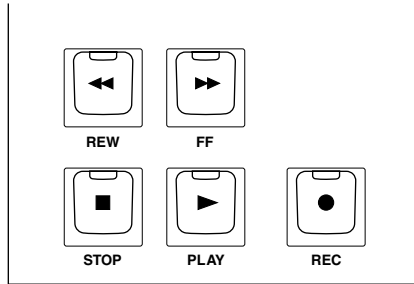


2 , INC/DEC , [ENTER]

MACHINE CONTROL/DAW CONTROL: MACHINE CONTROL ,
 MACHINE CONTROL MMC 가 , DAW Remote Layer가
 DAW가 . DAW CONTROL ,
 MACHINE CONTROL DAW가 .
 Locate Memory (194).
TYPE: MMC NONE .
PORT: TYPE MMC , MMC
 가 , MIDI, SERIAL 1-8, USB 1-8, SLOT1 1-8 .
DEVICE ID: TYPE MMC , 1 127 ID
 ALL ID .
 SERIAL, USB SLOT1 ID .
TRANSPORT CONTROL: 02R96

02R96
(Machine Configuration)

(192)



[REW] rewind

[FF] fast forward

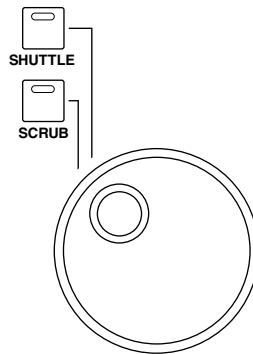
[STOP]

[PLAY] punch out

[REC] [PLAY] [REC]
가

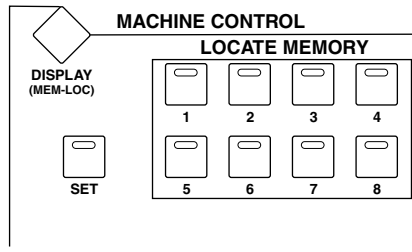
Shuttle Scrub

shuttle scrub



[SHUTTLE] indicator가 , shuttle
[SCRUB] indicator가 , scrub
shuttle/scrub
shuttle/scrub

Locator



LOCATE MEMORY [1-8]

8 Locate . Locate Memory
 Locate (194). Locate
 , [SET] , LOCATE MEMORY [1-8]
 02R96

[SET]

LOCATE MEMORY [1-8], [IN], [OUT] [RETURN TO ZERO]

Locate

- 1 MACHINE CONTROL [DISPLAY] Locate Memory

LOCATE MEMORY	
1	00 : 00 : 00 . 00
2	00 : 00 : 00 . 00
3	00 : 00 : 00 . 00
4	00 : 00 : 00 . 00
5	00 : 00 : 00 . 00
6	00 : 00 : 00 . 00
7	00 : 00 : 00 . 00
8	00 : 00 : 00 . 00

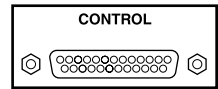
- 2 , INC/DEC , [ENTER]

MACHINE CONTROL/DAW CONTROL: MACHINE CONTROL ,
 MACHINE CONTROL MMC 가 , DAW Remote Layer가
 DAW가 . DAW CONTROL ,
 MACHINE CONTROL Layer DAW가 .

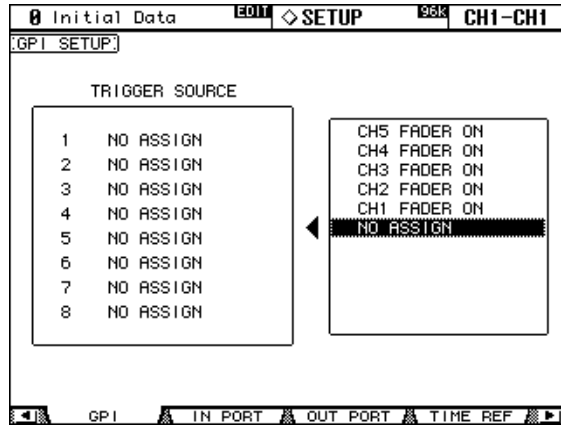
LOCATE MEMORY 1-8: LOCATE MEMORY [1-8]
 . MACHINE CONTROL
 , , Time Reference
 (152).

GPI(General Purpose Interface:)

02R96 CONTROL (25- D- connector)
 GPI() 271
 . fader USER DEFINED KEYS
 8 GPI
 . GPI "RECORDING"
 , Yamaha 02R



1 DISPLAY ACCESS [SETUP] GPI



GPI 가 GPI

2 Up/Down GPI
3 INC/DEC

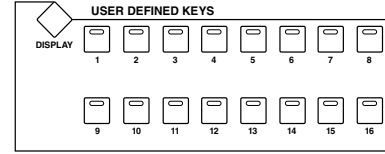
가 217 "GPI"

4 [ENTER]

Fader: fader . fader - FADER
 ON 가 . fader - FADER OFF 가
 가 , GPI 250 msec High(+5 V)가
USER DEFINED KEYS: (trigger) . UNLATCH
 , USER DEFINED KEY , GPI 250 msec High(+5 V)
 . LATCH , USER DEFINED KEY , GPI High(+5 V)
 USER DEFINED KEY High
REC LAMP: "RECORDING"
 . [REC] indicator가 , GPI High(+5 V)
POWER ON: 02R96 , GPI High(+5 V)
 02R96 talkback dimmer 2 GPI . GPIO
 Low()가 , TALKBACK . GPI1 Low()가
 , DIMMER

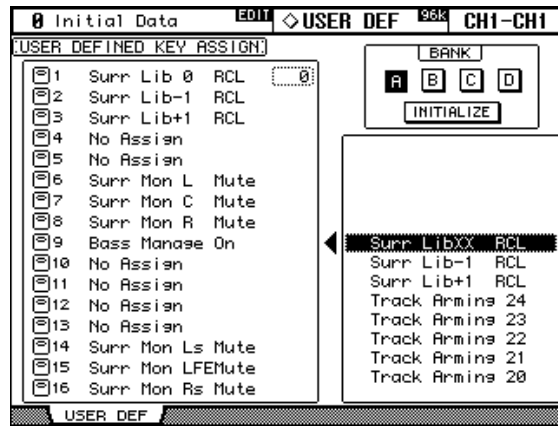
20

150 가 16
 USER DEFINED KEYS , 4
 A, B, C, D
 202



1 USER DEFINED KEYS [DISPLAY]

User defined Key Assigned



2 BANK A, B, C, D , [ENTER]

3 Assign , INC/DEC

가 202

4 [ENTER]

Scene , USER
 DEFINED KEY
 Assign , INC/DEC

INITIALIZE [ENTER] ,

MIDI MIDI MIDI
 (168).

Preferences

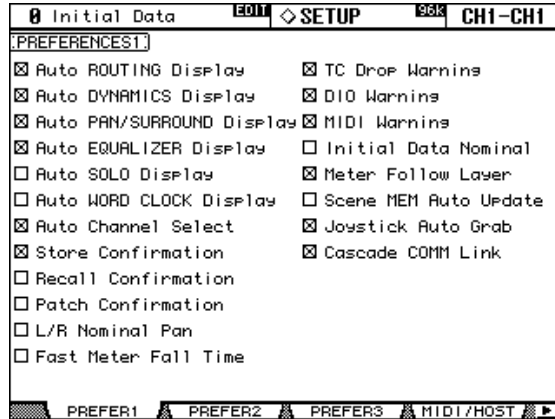
Preferences

02R96

Preferences 1

1 DISPLAY ACCESS [SETUP]

Preferences1



2

preferences

, INC/DEC

[ENTER]

Auto ROUTING Display: preference , SELECTED CHANNEL ROUTING
Routing 가 (66).

Auto DYNAMICS Display: preference , SELECTED CHANNEL DYNAMICS
gate control Gate Edit 가 (60),
SELECTED CHANNEL DYNAMICS Compressor control Comp Edit
가 (97).

Auto PAN/SURROUND Display: preference , SELECTED CHANNEL
PAN/SURROUND control Pan 가 (68
) . 가 , Stereo가 Surround Pan ,
Input Channel Surround Edit 가 (70).

Auto EQUALIZER Display: preference , SELECTED CHANNEL
EQUALIZER control EQ Edit 가 (93
) .

Auto SOLO Display: , Solo Setup 가
(102).

Auto WORD CLOCK Display: preference ,
가 Word Clock Select 가 (42).

Auto Channel Select: preference , fader Encoder
[AUTO], [SOLO] [ON]

Store Confirmation: preference , Scene(140)
(122) Title Edit .

Recall Confirmation: preference , Scene(140)
(122) 가 .

Patch Confirmation: preference ,
가 (52).

L/R Nominal Pan: preference , Input Channel 가 가
/ / 가 , 가
-3 dB . preference , 가 가
가 3 dB , .

Fast Meter Fall Time: preference , 가 .

TC Drop Warning: preference , 가 .

DIO Warning: preference , 2TR 가 .

MIDI Warning: preference , MIDI 가 .

Initial Data Nominal: preference , Scene 0 Input Channel fader가 .

Meter Follow Layer: preference , MB02R96 가 02R96 Layer .

Scene MEM Auto Update: preference , Scene (139) .

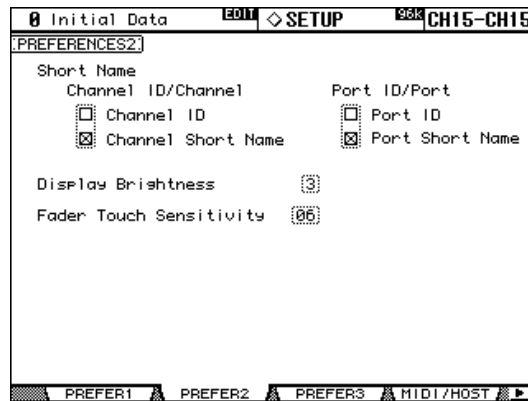
Joystick Auto Grab: preference , surround pan , surround pan control (70) .

Cascade COMM Link: preference , 가 02R96 (49) . preference , 가 02R96

Preferences 2

1 DISPLAY ACCESS [SETUP]

Preferences2



2 preference , , INC/DEC , [ENTER]

Channel ID/Channel: Channel ID preference가 , ID가 (, CH1-CH1). Channel Short Name preference가 , ID (, CH1-NAME).

Port ID/Port: Port ID preference가 , ID가 . Port Short Name , 58 "Encoder " .

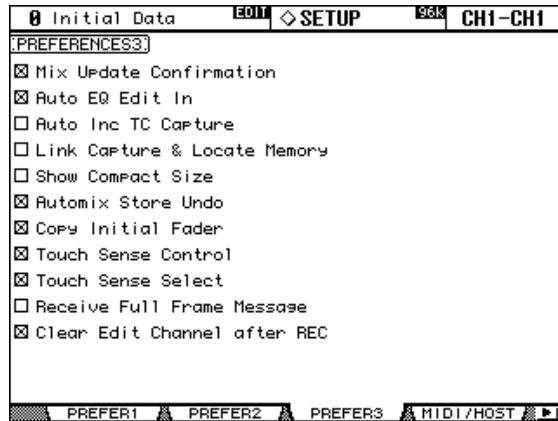
(Display Brightness): LED indicator preference .

Fader Touch Sensitivity: fader , fader knob . fader knob 가 , 가 , 02R96 . 28 "Grounding screw()"

Preferences 3

1 DISPLAY ACCESS [SETUP]

Preferences3



2

preference , INC/DEC

[ENTER]

Mix Update Confirmation: preference , Automix 가 Automix

Auto EQ Edit In: preference , EQ control EQ가 Automix

Auto Inc TC Capture: preference , Automix Event Edit 가 가 (158).

Link Capture & Locate Memory: preference , Automix Event Edit 가 8 Locate 1 가 1

Show Compact Size: Automix preference , Automix Main Memory 가 preference , 가

Automix Store Undo: preference , Automix

Copy Initial Fader: preference , Automix Event Copy Fader preference , IN fader TO 가 fader

Touch Sense Control: preference , 가 (, 가 fader knob) fader 가 , " (Cut-in)" 가 preference , fader

Touch Sense Select: preference , fader knob

Receive Full Frame Message: preference , MTC 가 Automix가

Clear Edit Channel after REC: preference , Auto Rec Automix (, [AUTO]). preference ,

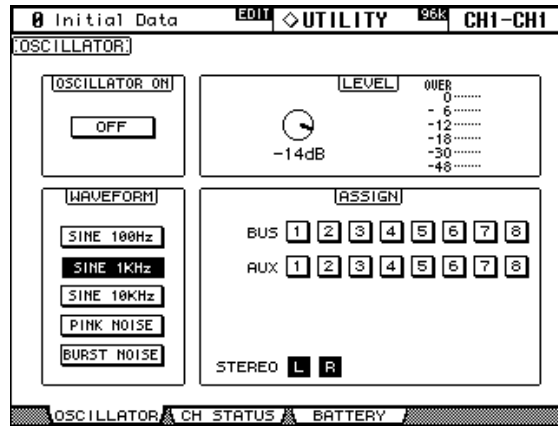
Oscillator

02R96

oscillator가

1 DISPLAY ACCESS [UTILITY]

Oscillator



2 , INC/DEC , [ENTER]

OSCILLATOR ON: Oscillator . LEVEL
[ENTER] Oscillator

: LEVEL	(tone burst)	, oscillator
------------	--------------	--------------

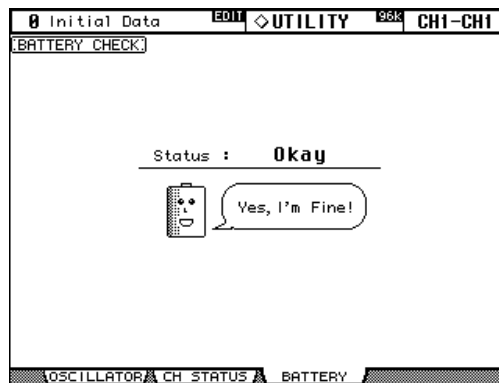
LEVEL: oscillator

WAVEFORM: SINE 100Hz, SINE 1kHz, SINE 10kHz, PINK NOISE, 4 200 msec BURST NOISE

ASSIGN: Oscillator Bus Out, Aux Send, Stereo Out

1 DISPLAY ACCESS [UTILITY]

Battery Check



Status()가 "Okay" , 가 . Status()가 "Getting Low"
가 Yamaha 가

02R96

02R96

: <i>MIDI</i> , <i>Scene</i> 0 (168 (139).

1 02R96

2 SCENE MEMORY [STORE] , 02R96

3 가 , SCENE MEMORY [STORE] , YES
[ENTER]

가 ,Loading Factory Presets & Calibrating the Faders...Do Not Touch the Faders!(fader "fader)"

가

가 fader . fader가

가 가

A:

USER DEFINED KEYS

0	No ASSIGN	No Assign
1	Scene MEM.Recall +1	Scene +1 Recall
2	Scene MEM.Recall -1	Scene -1Recall
3	Scene MEM.Recall No. XX	Scene XX Recall
4	Effect-1 Lib.Recall +1	Fx1 Lib+1 Recall
5	Effect-1 Lib.Recall -1	Fx1 Lib -1 1Recall
6	Effect-1 Lib.Recall No. XX	Fx1 LibXXX RCL.
7	Effect-2 Lib.Recall +1	Fx2 Lib+1 Recall
8	Effect-2 Lib.Recall -1	Fx2 Lib-1Recall
9	Effect-2 Lib.Recall No.XX	Fx2 LibXXX RCL.
10	Effect-3 Lib.Recall +1	Fx3 Lib+1 Recall
11	Effect-3 Lib.Recall -1	Fx3 Lib-1Recall
12	Effect-3 Lib.Recall No.XX	Fx3 LibXXX RCL.
13	Effect-4 Lib.Recall +1	Fx4 Lib+1 Recall
14	Effect-4 Lib.Recall -1	Fx4 Lib-1Recall
15	Effect-4 Lib.Recall No.XX	Fx4 LibXXX RCL.
16	Effect-1 Bypass On/Off	Fx1 Bypass
17	Effect-2 Bypass On/Off	Fx2 Bypass
18	Effect-3 Bypass On/Off	Fx3 Bypass
19	Effect-4 Bypass On/Off	Fx4 Bypass
20	Channel Lib.Recall +1	CH Lib+1 Recall
21	Channel Lib.Recall -1	CH Lib-1Recall
22	Channel Lib.Recall No. XX	CH LibXXX Recall
23	GATE Lib.Recall +1	Gate Lib+1 RCL.
24	GATE Lib.Recall -1	Gate Lib-1RCL.
25	GATE Lib.Recall No. XX	Gate LibXXX RCL.
26	COMP Lib.Recall +1	Comp Lib+1 RCL.
27	COMP Lib.Recall -1	Comp Lib-1RCL.
28	COMP Lib.Recall No. XX	Comp LibXXX RCL.
29	EQ Lib.Recall +1	EQ Lib+1 Recall
30	EQ Lib.Recall -1	EQ Lib.-1Recall
31	EQ Lib.Recall No. XX	EQ LibXXX Recall
32	SURR.MONI MUTE Mute L On/Off	Surr.Mon L Mute
33	SURR.MONI MUTE Mute R On/Off	Surr.Mon R Mute
34	SURR.MONI MUTE Mute Ls On/Off	Surr.Mon Ls Mute
35	SURR.MONI MUTE Mute Rs On/Off	Surr.Mon Rs Mute
36	SURR.MONI MUTE Mute C On/Off	Surr.Mon C Mute
37	SURR.MONI MUTE Mute LFE On/Off	Surr.Mon LFEMute
38	SURR.MONI SLOT1 ON/OFF	Surr.SLOT1 ON
39	SURR.MONI SLOT2 ON/OFF	Surr.SLOT2 ON
40	SURR.MONI SLOT3 ON/OFF	Surr.SLOT3 ON
41	SURR.MONI SLOT4 ON/OFF	Surr.SLOT4 ON
42	SURR.MONI BASS MANAGE ON/OFF	Bass Manage ON
43	Input Fader Group Enable A	IN Fader Group A

44	Input Fader Group Enable B	IN Fader Group B
45	Input Fader Group Enable C	IN Fader Group C
46	Input Fader Group Enable D	IN Fader Group D
47	Input Fader Group Enable E	IN Fader Group E
48	Input Fader Group Enable F	IN Fader Group F
49	Input Fader Group Enable G	IN Fader Group G
50	Input Fader Group Enable H	IN Fader Group H
51	Input MUTE Group Enable I	IN Mute Group I
52	Input MUTE Group Enable J	IN Mute Group J
53	Input MUTE Group Enable K	IN Mute Group K
54	Input MUTE Group Enable L	IN Mute Group L
55	Input MUTE Group Enable M	IN Mute Group M
56	Input MUTE Group Enable N	IN Mute Group N
57	Input MUTE Group Enable O	IN Mute Group O
58	Input MUTE Group Enable P	IN Mute Group P
59	Output Fader Group Enable Q	OutFader Group Q
60	Output Fader Group Enable R	OutFader Group R
61	Output Fader Group Enable S	OutFader Group S
62	Output Fader Group Enable T	OutFader Group T
63	Output MUTE Group Enable U	Out Mute Group U
64	Output MUTE Group Enable V	Out Mute Group V
65	Output MUTE Group Enable W	Out Mute Group W
66	Output MUTE Group Enable X	Out Mute Group X
67	PEAK HOLD On/Off	Peak Hold
68	OSCILLATOR On/Off	OSC.ON/OFF(/)
69	SOLO Enable	SOLO ENABLE
70	Input Patch Lib.Recall +1	IN Patch Lib+1
71	Input Patch Lib.Recall -1	IN Patch Lib-1
72	Input Patch Lib.Recall No. XX	IN Patch LibXX
73	Output Patch Lib.Recall +1	Out Patch Lib+1
74	Output Patch Lib.Recall -1	Out Patch Lib-1
75	Output Patch Lib.Recall No. XX	Out Patch LibXX
76	Channel Name ID/Short	CH Name ID/Short
77	Port Name ID/Short	PortNameID/Short
78	Automix REC	Automix REC
79	Automix PLAY	Automix PLAY
80	Automix STOP	Automix STOP
81	Automix ABORT	Automix ABORT
82	Automix AUTO REC	Automix AUTOREC
83	Automix ENABLE	Automix ENABLE
84	Automix RETURN	Automix RETURN
85	Automix TAKEOVER	Automix TAKEOVER
86	Automix RELATIVE	Automix RELATIVE
87	Automix TOUCH SENSE	Automix T.SENSE
88	Overwrite FADER	Overwrite FADER
89	Overwrite ON	Overwrite ON
90	Overwrite PAN	Overwrite PAN
91	Overwrite SURROUND	Overwrite SURR.
92	Overwrite EQ	Overwrite EQ

93	Overwrite AUX	Overwrite AUX
94	Overwrite AUX ON	Overwrite AUX ON
95	Track Arming 1 ON/OFF	Track Arming 1
96	Track Arming 2 ON/OFF	Track Arming 2
97	Track Arming 3 ON/OFF	Track Arming 3
98	Track Arming 4 ON/OFF	Track Arming 4
99	Track Arming 5 ON/OFF	Track Arming 5
100	Track Arming 6 ON/OFF	Track Arming 6
101	Track Arming 7 ON/OFF	Track Arming 7
102	Track Arming 8 ON/OFF	Track Arming 8
103	Track Arming 9 ON/OFF	Track Arming 9
104	Track Arming 10 ON/OFF	Track Arming 10
105	Track Arming 11 ON/OFF	Track Arming 11
106	Track Arming 12 ON/OFF	Track Arming 12
107	Track Arming 13 ON/OFF	Track Arming 13
108	Track Arming 14 ON/OFF	Track Arming 14
109	Track Arming 15 ON/OFF	Track Arming 15
110	Track Arming 16 ON/OFF	Track Arming 16
111	Track Arming 17 ON/OFF	Track Arming 17
112	Track Arming 18 ON/OFF	Track Arming 18
113	Track Arming 19 ON/OFF	Track Arming 19
114	Track Arming 20 ON/OFF	Track Arming 20
115	Track Arming 21 ON/OFF	Track Arming 21
116	Track Arming 22 ON/OFF	Track Arming 22
117	Track Arming 23 ON/OFF	Track Arming 23
118	Track Arming 24 ON/OFF	Track Arming 24
119	Surr Lib.Recall +1	Surr Lib+1 RCL
120	Surr Lib.Recall -1	Surr Lib-1RCL.
121	Surr Lib.Recall No. XX	Surr LibXX RCL
122	CH Copy	Channel Copy
123	CH Paste	Channel Paste
124	Display Back	Display Back
125	Display Forward	Display Forward

USER DEFINED KEYS

	A	B	C	D
1	Surr Lib 0 Recall	Scene 1 Recall	IN Fader Group A	Automix ENABLE
2	Surr Lib -1 Recall	Scene 2 Recall	IN Fader Group B	Automix REC
3	Surr Lib +1 Recall	Scene 3 Recall	IN Fader Group C	Automix ABORT
4	No Assign	Scene 4 Recall	IN Fader Group D	Automix AUTOREC
5	No Assign	Scene 5 Recall	IN Fader Group E	Automix RETURN
6	Surr.Mon L Mute	Scene 6 Recall	IN Fader Group F	Automix RELATIVE
7	Surr.Mon C Mute	Scene 7 Recall	IN Fader Group G	Automix T. SENSE
8	Surr.Mon R Mute	Scene +1 Recall	IN Fader Group H	Automix TAKEOVER
9	Bass Manage ON	Scene 8 Recall	IN Mute Group I	Overwrite FADER
10	No Assign	Scene 9 Recall	IN Mute Group J	Overwrite ON
11	No Assign	Scene 10 Recall	IN Mute Group K	Overwrite PAN
12	No Assign	Scene 11 Recall	IN Mute Group L	Overwrite SURR.
13	No Assign	Scene 12 Recall	IN Mute Group M	Overwrite AUX
14	Surr.Mon Ls Mute	Scene 13 Recall	IN Mute Group N	Overwrite AUX ON
15	Surr.Mon LFEMute	Scene 14 Recall	IN Mute Group O	Overwrite EQ
16	Surr.Mon Rs Mute	Scene 1 Recall	IN Mute Group P	Automix STOP

Input Patch

Input Channel		Input Channel Insert In		effect	
ID		ID		ID	
NONE	NONE	NONE	NONE	NONE	NONE
AD1	AD IN 1	AD1	AD IN 1	AUX1	AUX1
AD2	AD IN 2	AD2	AD IN 2	AUX2	AUX2
AD3	AD IN 3	AD3	AD IN 3	AUX3	AUX3
AD4	AD IN 4	AD4	AD IN 4	AUX4	AUX4
AD5	AD IN 5	AD5	AD IN 5	AUX5	AUX5
AD6	AD IN 6	AD6	AD IN 6	AUX6	AUX6
AD7	AD IN 7	AD7	AD IN 7	AUX7	AUX7
AD8	AD IN 8	AD8	AD IN 8	AUX8	AUX8
AD9	AD IN 9	AD9	AD IN 9	INSCH1	InsertOut-CH1
AD10	AD IN 10	AD10	AD IN 10	INSCH2	InsertOut-CH2
AD11	AD IN 11	AD11	AD IN 11	INSCH3	InsertOut-CH3
AD12	AD IN 12	AD12	AD IN 12	INSCH4	InsertOut-CH4
AD13	AD IN 13	AD13	AD IN 13	INSCH5	InsertOut-CH5
AD14	AD IN 14	AD14	AD IN 14	INSCH6	InsertOut-CH6
AD15	AD IN 15	AD15	AD IN 15	INSCH7	InsertOut-CH7
AD16	AD IN 16	AD16	AD IN 16	INSCH8	InsertOut-CH8
AD17	AD IN 17	AD17	AD IN 17	INSCH9	InsertOut-CH9
AD18	AD IN 18	AD18	AD IN 18	INSCH10	InsertOut-CH10
AD19	AD IN 19	AD19	AD IN 19	INSCH11	InsertOut-CH11
AD20	AD IN 20	AD20	AD IN 20	INSCH12	InsertOut-CH12
AD21	AD IN 21	AD21	AD IN 21	INSCH13	InsertOut-CH13
AD22	AD IN 22	AD22	AD IN 22	INSCH14	InsertOut-CH14
AD23	AD IN 23	AD23	AD IN 23	INSCH15	InsertOut-CH15
AD24	AD IN 24	AD24	AD IN 24	INSCH16	InsertOut-CH16
S1-1	Slot1 CH1 IN	S1-1	Slot1 CH1 IN	INSCH17	InsertOut-CH17
S1-2	Slot1 CH2 IN	S1-2	Slot1 CH2 IN	INSCH18	InsertOut-CH18
S1-3	Slot1 CH3 IN	S1-3	Slot1 CH3 IN	INSCH19	InsertOut-CH19

Input Channel		Input Channel Insert In		effect	
ID		ID		ID	
S1-4	Slot1 CH4 IN	S1-4	Slot1 CH4 IN	INSCH20	InsertOut-CH20
S1-5	Slot1 CH5 IN	S1-5	Slot1 CH5 IN	INSCH21	InsertOut-CH21
S1-6	Slot1 CH6 IN	S1-6	Slot1 CH6 IN	INSCH22	InsertOut-CH22
S1-7	Slot1 CH7 IN	S1-7	Slot1 CH7 IN	INSCH23	InsertOut-CH23
S1-8	Slot1 CH8 IN	S1-8	Slot1 CH8 IN	INSCH24	InsertOut-CH24
S1-9	Slot1 CH9 IN	S1-9	Slot1 CH9 IN	INSCH25	InsertOut-CH25
S1-10	Slot1 CH10 IN	S1-10	Slot1 CH10 IN	INSCH26	InsertOut-CH26
S1-11	Slot1 CH11 IN	S1-11	Slot1 CH11 IN	INSCH27	InsertOut-CH27
S1-12	Slot1 CH12 IN	S1-12	Slot1 CH12 IN	INSCH28	InsertOut-CH28
S1-13	Slot1 CH13 IN	S1-13	Slot1 CH13 IN	INSCH29	InsertOut-CH29
S1-14	Slot1 CH14 IN	S1-14	Slot1 CH14 IN	INSCH30	InsertOut-CH30
S1-15	Slot1 CH15 IN	S1-15	Slot1 CH15 IN	INSCH31	InsertOut-CH31
S1-16	Slot1 CH16 IN	S1-16	Slot1 CH16 IN	INSCH32	InsertOut-CH32
S2-1	Slot2 CH1 IN	S2-1	Slot2 CH1 IN	INSCH33	InsertOut-CH33
S2-2	Slot2 CH2 IN	S2-2	Slot2 CH2 IN	INSCH34	InsertOut-CH34
S2-3	Slot2 CH3 IN	S2-3	Slot2 CH3 IN	INSCH35	InsertOut-CH35
S2-4	Slot2 CH4 IN	S2-4	Slot2 CH4 IN	INSCH36	InsertOut-CH36
S2-5	Slot2 CH5 IN	S2-5	Slot2 CH5 IN	INSCH37	InsertOut-CH37
S2-6	Slot2 CH6 IN	S2-6	Slot2 CH6 IN	INSCH38	InsertOut-CH38
S2-7	Slot2 CH7 IN	S2-7	Slot2 CH7 IN	INSCH39	InsertOut-CH39
S2-8	Slot2 CH8 IN	S2-8	Slot2 CH8 IN	INSCH40	InsertOut-CH40
S2-9	Slot2 CH9 IN	S2-9	Slot2 CH9 IN	INSCH41	InsertOut-CH41
S2-10	Slot2 CH10 IN	S2-10	Slot2 CH10 IN	INSCH42	InsertOut-CH42
S2-11	Slot2 CH11 IN	S2-11	Slot2 CH11 IN	INSCH43	InsertOut-CH43
S2-12	Slot2 CH12 IN	S2-12	Slot2 CH12 IN	INSCH44	InsertOut-CH44
S2-13	Slot2 CH13 IN	S2-13	Slot2 CH13 IN	INSCH45	InsertOut-CH45
S2-14	Slot2 CH14 IN	S2-14	Slot2 CH14 IN	INSCH46	InsertOut-CH46
S2-15	Slot2 CH15 IN	S2-15	Slot2 CH15 IN	INSCH47	InsertOut-CH47
S2-16	Slot2 CH16 IN	S2-16	Slot2 CH16 IN	INSCH48	InsertOut-CH48
S3-1	Slot3 CH1 IN	S3-1	Slot3 CH1 IN	INSCH49	InsertOut-CH49
S3-2	Slot3 CH2 IN	S3-2	Slot3 CH2 IN	INSCH50	InsertOut-CH50
S3-3	Slot3 CH3 IN	S3-3	Slot3 CH3 IN	INSCH51	InsertOut-CH51
S3-4	Slot3 CH4 IN	S3-4	Slot3 CH4 IN	INSCH52	InsertOut-CH52
S3-5	Slot3 CH5 IN	S3-5	Slot3 CH5 IN	INSCH53	InsertOut-CH53
S3-6	Slot3 CH6 IN	S3-6	Slot3 CH6 IN	INSCH54	InsertOut-CH54
S3-7	Slot3 CH7 IN	S3-7	Slot3 CH7 IN	INSCH55	InsertOut-CH55
S3-8	Slot3 CH8 IN	S3-8	Slot3 CH8 IN	INSCH56	InsertOut-CH56
S3-9	Slot3 CH9 IN	S3-9	Slot3 CH9 IN	INSBUS1	InsertOut-BUS1
S3-10	Slot3 CH10 IN	S3-10	Slot3 CH10 IN	INSBUS2	InsertOut-BUS2
S3-11	Slot3 CH11 IN	S3-11	Slot3 CH11 IN	INSBUS3	InsertOut-BUS3
S3-12	Slot3 CH12 IN	S3-12	Slot3 CH12 IN	INSBUS4	InsertOut-BUS4
S3-13	Slot3 CH13 IN	S3-13	Slot3 CH13 IN	INSBUS5	InsertOut-BUS5
S3-14	Slot3 CH14 IN	S3-14	Slot3 CH14 IN	INSBUS6	InsertOut-BUS6
S3-15	Slot3 CH15 IN	S3-15	Slot3 CH15 IN	INSBUS7	InsertOut-BUS7
S3-16	Slot3 CH16 IN	S3-16	Slot3 CH16 IN	INSBUS8	InsertOut-BUS8
S4-1	Slot4 CH1 IN	S4-1	Slot4 CH1 IN	INSAUX1	InsertOut-AUX1
S4-2	Slot4 CH2 IN	S4-2	Slot4 CH2 IN	INSAUX2	InsertOut-AUX2
S4-3	Slot4 CH3 IN	S4-3	Slot4 CH3 IN	INSAUX3	InsertOut-AUX3
S4-4	Slot4 CH4 IN	S4-4	Slot4 CH4 IN	INSAUX4	InsertOut-AUX4
S4-5	Slot4 CH5 IN	S4-5	Slot4 CH5 IN	INSAUX5	InsertOut-AUX5
S4-6	Slot4 CH6 IN	S4-6	Slot4 CH6 IN	INSAUX6	InsertOut-AUX6

Input Channel		Input Channel Insert In		effect	
ID		ID		ID	
S4-7	Slot4 CH7 IN	S4-7	Slot4 CH7 IN	INSAUX7	InsertOut-AUX7
S4-8	Slot4 CH8 IN	S4-8	Slot4 CH8 IN	INSAUX8	InsertOut-AUX8
S4-9	Slot4 CH9 IN	S4-9	Slot4 CH9 IN	INSSTL	InsertOut-STL
S4-10	Slot4 CH10 IN	S4-10	Slot4 CH10 IN	INSSTR	InsertOut-STR
S4-11	Slot4 CH11 IN	S4-11	Slot4 CH11 IN	FX1-1	Effect1 OUT 1
S4-12	Slot4 CH12 IN	S4-12	Slot4 CH12 IN	FX1-2	Effect1 OUT 2
S4-13	Slot4 CH13 IN	S4-13	Slot4 CH13 IN	FX2-1	Effect2 OUT 1
S4-14	Slot4 CH14 IN	S4-14	Slot4 CH14 IN	FX2-2	Effect2 OUT 2
S4-15	Slot4 CH15 IN	S4-15	Slot4 CH15 IN	FX3-1	Effect3 OUT 1
S4-16	Slot4 CH16 IN	S4-16	Slot4 CH16 IN	FX3-2	Effect3 OUT 2
FX1-1	Effect1 OUT 1	FX1-1	Effect1 OUT 1	FX4-1	Effect4 OUT 1
FX1-2	Effect1 OUT 2	FX1-2	Effect1 OUT 2	FX4-2	Effect4 OUT 2
FX1-3	Effect1 OUT 3	FX1-3	Effect1 OUT 3		
FX1-4	Effect1 OUT 4	FX1-4	Effect1 OUT 4		
FX1-5	Effect1 OUT 5	FX1-5	Effect1 OUT 5		
FX1-6	Effect1 OUT 6	FX1-6	Effect1 OUT 6		
FX1-7	Effect1 OUT 7	FX1-7	Effect1 OUT 7		
FX1-8	Effect1 OUT 8	FX1-8	Effect1 OUT 8		
FX2-1	Effect2 OUT 1	FX2-1	Effect2 OUT 1		
FX2-2	Effect2 OUT 2	FX2-2	Effect2 OUT 2		
FX3-1	Effect3 OUT 1	FX3-1	Effect3 OUT 1		
FX3-2	Effect3 OUT 2	FX3-2	Effect3 OUT 2		
FX4-1	Effect4 OUT 1	FX4-1	Effect4 OUT 1		
FX4-2	Effect4 OUT 2	FX4-2	Effect4 OUT 2		
2TD1L	2TR IN Dig.1 L	2TD1L	2TR IN Dig.1 L		
2TD1R	2TR IN Dig.1 R	2TD1R	2TR IN Dig.1 R		
2TD2L	2TR IN Dig.2 L	2TD2L	2TR IN Dig.2 L		
2TD2R	2TR IN Dig.2 R	2TD2R	2TR IN Dig.2 R		
2TD3L	2TR IN Dig.3 L	2TD3L	2TR IN Dig.3 L		
2TD3R	2TR IN Dig.3 R	2TD3R	2TR IN Dig.3 R		
2TA1L	2TR IN Analog1 L	2TA1L	2TR IN Analog1 L		
2TA1R	2TR IN Analog1 R	2TA1R	2TR IN Analog1 R		
2TA2L	2TR IN Analog2 L	2TA2L	2TR IN Analog2 L		
2TA2R	2TR IN Analog2 R	2TA2R	2TR IN Analog2 R		
BUS1	BUS1				
BUS2	BUS2				
BUS3	BUS3				
BUS4	BUS4				
UBS5	UBS5				
BUS6	BUS6				
BUS7	BUS7				
BUS8	BUS8				
AUX1	AUX1				
AUX2	AUX2				
AUX3	AUX3				
AUX4	AUX4				
AUX5	AUX5				
AUX6	AUX6				
AUX7	AUX7				
AUX8	AUX8				

Input Patch

Input Channel

1	AD01	29	S1-05
2	AD02	30	S1-06
3	AD03	31	S1-07
4	AD04	32	S1-08
5	AD05	33	S2-01
6	AD06	34	S2-02
7	AD07	35	S2-03
8	AD08	36	S2-04
9	AD09	37	S2-05
10	AD10	38	S2-06
11	AD11	39	S2-07
12	AD12	40	S2-08
13	AD13	41	S3-01
14	AD14	42	S3-02
15	AD15	43	S3-03
16	AD16	44	S3-04
17	AD17	45	S3-05
18	AD18	46	S3-06
19	AD19	47	S3-07
20	AD20	48	S3-08
21	AD21	49	S4-01
22	AD22	50	S4-02
23	AD23	51	S4-03
24	AD24	52	S4-04
25	S1-01	53	S4-05
26	S1-02	54	S4-06
27	S1-03	55	S4-07
28	S1-04	56	S4-08

Effect

1-1	AUX1
1-2	NONE
1-3	NONE
1-4	NONE
1-5	NONE
1-6	NONE
1-7	NONE
1-8	NONE
2-1	AUX2
2-2	NONE
3-1	AUX3
3-2	NONE
4-1	AUX4
4-2	NONE

Output Patch

Output Patch 2 가 1 Slot Output, Omni Out
 Output Channel Insert In 가 2 Direct Out
 2TR 가 .

Output Patch Table 1

Slot Output		Omni Out		Output Channel Insert In	
NONE	NONE	NONE	NONE	NONE	NONE
BUS1	BUS1	BUS1	BUS1	AD1	AD IN 1
BUS2	BUS2	BUS2	BUS2	AD2	AD IN 2
BUS3	BUS3	BUS3	BUS3	AD3	AD IN 3
BUS4	BUS4	BUS4	BUS4	AD4	AD IN 4
UBS5	UBS5	UBS5	UBS5	AD5	AD IN 5
BUS6	BUS6	BUS6	BUS6	AD6	AD IN 6
BUS7	BUS7	BUS7	BUS7	AD7	AD IN 7
BUS8	BUS8	BUS8	BUS8	AD8	AD IN 8
AUX1	AUX1	AUX1	AUX1	AD9	AD IN 9
AUX2	AUX2	AUX2	AUX2	AD10	AD IN 10
AUX3	AUX3	AUX3	AUX3	AD11	AD IN 11
AUX4	AUX4	AUX4	AUX4	AD12	AD IN 12
AUX5	AUX5	AUX5	AUX5	AD13	AD IN 13
AUX6	AUX6	AUX6	AUX6	AD14	AD IN 14
AUX7	AUX7	AUX7	AUX7	AD15	AD IN 15
AUX8	AUX8	AUX8	AUX8	AD16	AD IN 16
STEREO-L	STEREO L	STEREO-L	STEREO L	AD17	AD IN 17
STEREO-R	STEREO R	STEREO-R	STEREO R	AD18	AD IN 18
INSCH1	InsertOut-CH1	INSCH1	InsertOut-CH1	AD19	AD IN 19
INSCH2	InsertOut-CH2	INSCH2	InsertOut-CH2	AD20	AD IN 20
INSCH3	InsertOut-CH3	INSCH3	InsertOut-CH3	AD21	AD IN 21
INSCH4	InsertOut-CH4	INSCH4	InsertOut-CH4	AD22	AD IN 22
INSCH5	InsertOut-CH5	INSCH5	InsertOut-CH5	AD23	AD IN 23
INSCH6	InsertOut-CH6	INSCH6	InsertOut-CH6	AD24	AD IN 24
INSCH7	InsertOut-CH7	INSCH7	InsertOut-CH7	S1-1	Slot1 CH1 IN
INSCH8	InsertOut-CH8	INSCH8	InsertOut-CH8	S1-2	Slot1 CH2 IN
INSCH9	InsertOut-CH9	INSCH9	InsertOut-CH9	S1-3	Slot1 CH3 IN
INSCH10	InsertOut-CH10	INSCH10	InsertOut-CH10	S1-4	Slot1 CH4 IN
INSCH11	InsertOut-CH11	INSCH11	InsertOut-CH11	S1-5	Slot1 CH5 IN
INSCH12	InsertOut-CH12	INSCH12	InsertOut-CH12	S1-6	Slot1 CH6 IN
INSCH13	InsertOut-CH13	INSCH13	InsertOut-CH13	S1-7	Slot1 CH7 IN
INSCH14	InsertOut-CH14	INSCH14	InsertOut-CH14	S1-8	Slot1 CH8 IN
INSCH15	InsertOut-CH15	INSCH15	InsertOut-CH15	S1-9	Slot1 CH9 IN
INSCH16	InsertOut-CH16	INSCH16	InsertOut-CH16	S1-10	Slot1 CH10 IN
INSCH17	InsertOut-CH17	INSCH17	InsertOut-CH17	S1-11	Slot1 CH11 IN
INSCH18	InsertOut-CH18	INSCH18	InsertOut-CH18	S1-12	Slot1 CH12 IN
INSCH19	InsertOut-CH19	INSCH19	InsertOut-CH19	S1-13	Slot1 CH13 IN
INSCH20	InsertOut-CH20	INSCH20	InsertOut-CH20	S1-14	Slot1 CH14 IN
INSCH21	InsertOut-CH21	INSCH21	InsertOut-CH21	S1-15	Slot1 CH15 IN
INSCH22	InsertOut-CH22	INSCH22	InsertOut-CH22	S1-16	Slot1 CH16 IN
INSCH23	InsertOut-CH23	INSCH23	InsertOut-CH23	S2-1	Slot2 CH1 IN
INSCH24	InsertOut-CH24	INSCH24	InsertOut-CH24	S2-2	Slot2 CH2 IN
INSCH25	InsertOut-CH25	INSCH25	InsertOut-CH25	S2-3	Slot2 CH3 IN

Slot Output		Omni Out		Output Channel Insert In	
INSCH26	InsertOut-CH26	INSCH26	InsertOut-CH26	S2-4	Slot2 CH4 IN
INSCH27	InsertOut-CH27	INSCH27	InsertOut-CH27	S2-5	Slot2 CH5 IN
INSCH28	InsertOut-CH28	INSCH28	InsertOut-CH28	S2-6	Slot2 CH6 IN
INSCH29	InsertOut-CH29	INSCH29	InsertOut-CH29	S2-7	Slot2 CH7 IN
INSCH30	InsertOut-CH30	INSCH30	InsertOut-CH30	S2-8	Slot2 CH8 IN
INSCH31	InsertOut-CH31	INSCH31	InsertOut-CH31	S2-9	Slot2 CH9 IN
INSCH32	InsertOut-CH32	INSCH32	InsertOut-CH32	S2-10	Slot2 CH10 IN
INSCH33	InsertOut-CH33	INSCH33	InsertOut-CH33	S2-11	Slot2 CH11 IN
INSCH34	InsertOut-CH34	INSCH34	InsertOut-CH34	S2-12	Slot2 CH12 IN
INSCH35	InsertOut-CH35	INSCH35	InsertOut-CH35	S2-13	Slot2 CH13 IN
INSCH36	InsertOut-CH36	INSCH36	InsertOut-CH36	S2-14	Slot2 CH14 IN
INSCH37	InsertOut-CH37	INSCH37	InsertOut-CH37	S2-15	Slot2 CH15 IN
INSCH38	InsertOut-CH38	INSCH38	InsertOut-CH38	S2-16	Slot2 CH16 IN
INSCH39	InsertOut-CH39	INSCH39	InsertOut-CH39	S3-1	Slot3 CH1 IN
INSCH40	InsertOut-CH40	INSCH40	InsertOut-CH40	S3-2	Slot3 CH2 IN
INSCH41	InsertOut-CH41	INSCH41	InsertOut-CH41	S3-3	Slot3 CH3 IN
INSCH42	InsertOut-CH42	INSCH42	InsertOut-CH42	S3-4	Slot3 CH4 IN
INSCH43	InsertOut-CH43	INSCH43	InsertOut-CH43	S3-5	Slot3 CH5 IN
INSCH44	InsertOut-CH44	INSCH44	InsertOut-CH44	S3-6	Slot3 CH6 IN
INSCH45	InsertOut-CH45	INSCH45	InsertOut-CH45	S3-7	Slot3 CH7 IN
INSCH46	InsertOut-CH46	INSCH46	InsertOut-CH46	S3-8	Slot3 CH8 IN
INSCH47	InsertOut-CH47	INSCH47	InsertOut-CH47	S3-9	Slot3 CH9 IN
INSCH48	InsertOut-CH48	INSCH48	InsertOut-CH48	S3-10	Slot3 CH10 IN
INSCH49	InsertOut-CH49	INSCH49	InsertOut-CH49	S3-11	Slot3 CH11 IN
INSCH50	InsertOut-CH50	INSCH50	InsertOut-CH50	S3-12	Slot3 CH12 IN
INSCH51	InsertOut-CH51	INSCH51	InsertOut-CH51	S3-13	Slot3 CH13 IN
INSCH52	InsertOut-CH52	INSCH52	InsertOut-CH52	S3-14	Slot3 CH14 IN
INSCH53	InsertOut-CH53	INSCH53	InsertOut-CH53	S3-15	Slot3 CH15 IN
INSCH54	InsertOut-CH54	INSCH54	InsertOut-CH54	S3-16	Slot3 CH16 IN
INSCH55	InsertOut-CH55	INSCH55	InsertOut-CH55	S4-1	Slot4 CH1 IN
INSCH56	InsertOut-CH56	INSCH56	InsertOut-CH56	S4-2	Slot4 CH2 IN
INSBUS1	InsertOut-BUS1	INSBUS1	InsertOut-BUS1	S4-3	Slot4 CH3 IN
INSBUS2	InsertOut-BUS2	INSBUS2	InsertOut-BUS2	S4-4	Slot4 CH4 IN
INSBUS3	InsertOut-BUS3	INSBUS3	InsertOut-BUS3	S4-5	Slot4 CH5 IN
INSBUS4	InsertOut-BUS4	INSBUS4	InsertOut-BUS4	S4-6	Slot4 CH6 IN
INSBUS5	InsertOut-BUS5	INSBUS5	InsertOut-BUS5	S4-7	Slot4 CH7 IN
INSBUS6	InsertOut-BUS6	INSBUS6	InsertOut-BUS6	S4-8	Slot4 CH8 IN
INSBUS7	InsertOut-BUS7	INSBUS7	InsertOut-BUS7	S4-9	Slot4 CH9 IN
INSBUS8	InsertOut-BUS8	INSBUS8	InsertOut-BUS8	S4-10	Slot4 CH10 IN
INSAUX1	InsertOut-AUX1	INSAUX1	InsertOut-AUX1	S4-11	Slot4 CH11 IN
INSAUX2	InsertOut-AUX2	INSAUX2	InsertOut-AUX2	S4-12	Slot4 CH12 IN
INSAUX3	InsertOut-AUX3	INSAUX3	InsertOut-AUX3	S4-13	Slot4 CH13 IN
INSAUX4	InsertOut-AUX4	INSAUX4	InsertOut-AUX4	S4-14	Slot4 CH14 IN
INSAUX5	InsertOut-AUX5	INSAUX5	InsertOut-AUX5	S4-15	Slot4 CH15 IN
INSAUX6	InsertOut-AUX6	INSAUX6	InsertOut-AUX6	S4-16	Slot4 CH16 IN
INSAUX7	InsertOut-AUX7	INSAUX7	InsertOut-AUX7	FX1-1	Effect1 OUT 1
INSAUX8	InsertOut-AUX8	INSAUX8	InsertOut-AUX8	FX1-2	Effect1 OUT 2
INSSTL	InsertOut-STL	INSSTL	InsertOut-STL	FX1-3	Effect1 OUT 3
INSSTR	InsertOut-STR	INSSTR	InsertOut-STR	FX1-4	Effect1 OUT 4
Surr L	Surround Monitor L	Surr L	Surround Monitor L	FX1-5	Effect1 OUT 5
Surr R	Surround Monitor R	Surr R	Surround Monitor R	FX1-6	Effect1 OUT 6

Slot Output		Omni Out		Output Channel Insert In	
Surr Ls	Surround Monitor Ls	Surr Ls	Surround Monitor Ls	FX1-7	Effect1 OUT 7
Surr Rs	Surround Monitor Rs	Surr Rs	Surround Monitor Rs	FX1-8	Effect1 OUT 8
Surr C	Surround Monitor C	Surr C	Surround Monitor C	FX2-1	Effect2 OUT 1
Surr LFE	Surround Monitor LFE	Surr LFE	Surround Monitor LFE	FX2-2	Effect2 OUT 2
Surr Ls2	Surround Monitor Ls2	Surr Ls2	Surround Monitor Ls2	2TD1L	2TR IN Dig.1 L
Surr Rs2	Surround Monitor Rs2	Surr Rs2	Surround Monitor Rs2	2TD1R	2TR IN Dig.1 R
				2TD2L	2TR IN Dig.2 L
				2TD2R	2TR IN Dig.2 R
				2TD3L	2TR IN Dig.3 L
				2TD3R	2TR IN Dig.3 R
				2TA1L	2TR IN Analog1 L
				2TA1R	2TR IN Analog1 R
				2TA2L	2TR IN Analog2 L
				2TA2R	2TR IN Analog2 R

Output Patch Table 2

Direct Out		2TR	
NONE	NONE	NONE	NONE
S1-1	Slot1 CH1 OUT	BUS1	BUS1
S1-2	Slot1 CH2 OUT	BUS2	BUS2
S1-3	Slot1 CH3 OUT	BUS3	BUS3
S1-4	Slot1 CH4 OUT	BUS4	BUS4
S1-5	Slot1 CH5 OUT	UBS5	UBS5
S1-6	Slot1 CH6 OUT	BUS6	BUS6
S1-7	Slot1 CH7 OUT	BUS7	BUS7
S1-8	Slot1 CH8 OUT	BUS8	BUS8
S1-9	Slot1 CH9 OUT	AUX1	AUX1
S1-10	Slot1 CH10 OUT	AUX2	AUX2
S1-11	Slot1 CH11 OUT	AUX3	AUX3
S1-12	Slot1 CH12 OUT	AUX4	AUX4
S1-13	Slot1 CH13 OUT	AUX5	AUX5
S1-14	Slot1 CH14 OUT	AUX6	AUX6
S1-15	Slot1 CH15 OUT	AUX7	AUX7
S1-16	Slot1 CH16 OUT	AUX8	AUX8
S2-1	Slot2 CH1 OUT	STEREO-L	STEREO L
S2-2	Slot2 CH2 OUT	STEREO-R	STEREO R
S2-3	Slot2 CH3 OUT	INSCH1	InsertOut-CH1
S2-4	Slot2 CH4 OUT	INSCH2	InsertOut-CH2
S2-5	Slot2 CH5 OUT	INSCH3	InsertOut-CH3
S2-6	Slot2 CH6 OUT	INSCH4	InsertOut-CH4
S2-7	Slot2 CH7 OUT	INSCH5	InsertOut-CH5
S2-8	Slot2 CH8 OUT	INSCH6	InsertOut-CH6
S2-9	Slot2 CH9 OUT	INSCH7	InsertOut-CH7
S2-10	Slot2 CH10 OUT	INSCH8	InsertOut-CH8
S2-11	Slot2 CH11 OUT	INSCH9	InsertOut-CH9
S2-12	Slot2 CH12 OUT	INSCH10	InsertOut-CH10
S2-13	Slot2 CH13 OUT	INSCH11	InsertOut-CH11
S2-14	Slot2 CH14 OUT	INSCH12	InsertOut-CH12
S2-15	Slot2 CH15 OUT	INSCH13	InsertOut-CH13
S2-16	Slot2 CH16 OUT	INSCH14	InsertOut-CH14
S3-1	Slot3 CH1 OUT	INSCH15	InsertOut-CH15
S3-2	Slot3 CH2 OUT	INSCH16	InsertOut-CH16
S3-3	Slot3 CH3 OUT	INSCH17	InsertOut-CH17
S3-4	Slot3 CH4 OUT	INSCH18	InsertOut-CH18
S3-5	Slot3 CH5 OUT	INSCH19	InsertOut-CH19
S3-6	Slot3 CH6 OUT	INSCH20	InsertOut-CH20
S3-7	Slot3 CH7 OUT	INSCH21	InsertOut-CH21
S3-8	Slot3 CH8 OUT	INSCH22	InsertOut-CH22
S3-9	Slot3 CH9 OUT	INSCH23	InsertOut-CH23
S3-10	Slot3 CH10 OUT	INSCH24	InsertOut-CH24
S3-11	Slot3 CH11 OUT	INSCH25	InsertOut-CH25
S3-12	Slot3 CH12 OUT	INSCH26	InsertOut-CH26
S3-13	Slot3 CH13 OUT	INSCH27	InsertOut-CH27
S3-14	Slot3 CH14 OUT	INSCH28	InsertOut-CH28
S3-15	Slot3 CH15 OUT	INSCH29	InsertOut-CH29
S3-16	Slot3 CH16 OUT	INSCH30	InsertOut-CH30
S4-1	Slot4 CH1 OUT	INSCH31	InsertOut-CH31

Direct Out		2TR	
S4-2	Slot4 CH2 OUT	INSCH32	InsertOut-CH32
S4-3	Slot4 CH3 OUT	INSCH33	InsertOut-CH33
S4-4	Slot4 CH4 OUT	INSCH34	InsertOut-CH34
S4-5	Slot4 CH5 OUT	INSCH35	InsertOut-CH35
S4-6	Slot4 CH6 OUT	INSCH36	InsertOut-CH36
S4-7	Slot4 CH7 OUT	INSCH37	InsertOut-CH37
S4-8	Slot4 CH8 OUT	INSCH38	InsertOut-CH38
S4-9	Slot4 CH9 OUT	INSCH39	InsertOut-CH39
S4-10	Slot4 CH10 OUT	INSCH40	InsertOut-CH40
S4-11	Slot4 CH11 OUT	INSCH41	InsertOut-CH41
S4-12	Slot4 CH12 OUT	INSCH42	InsertOut-CH42
S4-13	Slot4 CH13 OUT	INSCH43	InsertOut-CH43
S4-14	Slot4 CH14 OUT	INSCH44	InsertOut-CH44
S4-15	Slot4 CH15 OUT	INSCH45	InsertOut-CH45
S4-16	Slot4 CH16 OUT	INSCH46	InsertOut-CH46
OMNI1	OMNI OUT 1	INSCH47	InsertOut-CH47
OMNI2	OMNI OUT 2	INSCH48	InsertOut-CH48
OMNI3	OMNI OUT 3	INSCH49	InsertOut-CH49
OMNI4	OMNI OUT 4	INSCH50	InsertOut-CH50
OMNI5	OMNI OUT 5	INSCH51	InsertOut-CH51
OMNI6	OMNI OUT 6	INSCH52	InsertOut-CH52
OMNI7	OMNI OUT 7	INSCH53	InsertOut-CH53
OMNI8	OMNI OUT 8	INSCH54	InsertOut-CH54
2TD1L	2TR OUT Dig.1 L	INSCH55	InsertOut-CH55
2TD1R	2TR OUT Dig.1 R	INSCH56	InsertOut-CH56
2TD2L	2TR OUT Dig.2 L	INSBUS1	InsertOut-BUS1
2TD2R	2TR OUT Dig.2 R	INSBUS2	InsertOut-BUS2
2TD3L	2TR OUT Dig.3 L	INSBUS3	InsertOut-BUS3
2TD3R	2TR OUT Dig.3 R	INSBUS4	InsertOut-BUS4
		INSBUS5	InsertOut-BUS5
		INSBUS6	InsertOut-BUS6
		INSBUS7	InsertOut-BUS7
		INSBUS8	InsertOut-BUS8
		INSAUX1	InsertOut-AUX1
		INSAUX2	InsertOut-AUX2
		INSAUX3	InsertOut-AUX3
		INSAUX4	InsertOut-AUX4
		INSAUX5	InsertOut-AUX5
		INSAUX6	InsertOut-AUX6
		INSAUX7	InsertOut-AUX7
		INSAUX8	InsertOut-AUX8
		INSSTL	InsertOut-STL
		INSSTR	InsertOut-STR
		CR-L	Control Room L
		CR-R	Control Room R

Output Patch

Slot Output

SLOT1-01	BUS1
SLOT1-02	BUS2
SLOT1-03	BUS3
SLOT1-04	BUS4
SLOT1-05	UBS5
SLOT1-06	BUS6
SLOT1-07	BUS7
SLOT1-08	BUS8
SLOT1-09	BUS1
SLOT1-10	BUS2
SLOT1-11	BUS3
SLOT1-12	BUS4
SLOT1-13	UBS5
SLOT1-14	BUS6
SLOT1-15	BUS7
SLOT1-16	BUS8
SLOT2-01	BUS1
SLOT2-02	BUS2
SLOT2-03	BUS3
SLOT2-04	BUS4
SLOT2-05	UBS5
SLOT2-06	BUS6
SLOT2-07	BUS7
SLOT2-08	BUS8
SLOT2-09	BUS1
SLOT2-10	BUS2
SLOT2-11	BUS3
SLOT2-12	BUS4
SLOT2-13	UBS5
SLOT2-14	BUS6
SLOT2-15	BUS7
SLOT2-16	BUS8
SLOT3-01	BUS1
SLOT3-02	BUS2
SLOT3-03	BUS3
SLOT3-04	BUS4
SLOT3-05	UBS5
SLOT3-06	BUS6
SLOT3-07	BUS7
SLOT3-08	BUS8
SLOT3-09	BUS1
SLOT3-10	BUS2
SLOT3-11	BUS3
SLOT3-12	BUS4
SLOT3-13	UBS5
SLOT3-14	BUS6
SLOT3-15	BUS7
SLOT3-16	BUS8
SLOT4-01	BUS1

SLOT4-02	BUS2
SLOT4-03	BUS3
SLOT4-04	BUS4
SLOT4-05	UBS5
SLOT4-06	BUS6
SLOT4-07	BUS7
SLOT4-08	BUS8
SLOT4-09	BUS1
SLOT4-10	BUS2
SLOT4-11	BUS3
SLOT4-12	BUS4
SLOT4-13	UBS5
SLOT4-14	BUS6
SLOT4-15	BUS7
SLOT4-16	BUS8

Omni Out

1	AUX1
2	AUX2
3	AUX3
4	AUX4
5	AUX5
6	AUX6
7	AUX7
8	AUX8

Direct Out

1	SLOT1-01
2	SLOT1-02
3	SLOT1-03
4	SLOT1-04
5	SLOT1-05
6	SLOT1-06
7	SLOT1-07
8	SLOT1-08
9	SLOT2-01
10	SLOT2-02
11	SLOT2-03
12	SLOT2-04
13	SLOT2-05
14	SLOT2-06
15	SLOT2-07
16	SLOT2-08
17	SLOT3-01
18	SLOT3-02
19	SLOT3-03
20	SLOT3-04
21	SLOT3-05
22	SLOT3-06

23	SLOT3-07
24	SLOT3-08
25	SLOT4-01
26	SLOT4-02
27	SLOT4-03
28	SLOT4-04
29	SLOT4-05
30	SLOT4-06
31	SLOT4-07
32	SLOT4-08
33	NONE
34	NONE
35	NONE
36	NONE
37	NONE
38	NONE
39	NONE
40	NONE
41	NONE
42	NONE
43	NONE
44	NONE
45	NONE
46	NONE
47	NONE
48	NONE
49	NONE
50	NONE
51	NONE
52	NONE
53	NONE
54	NONE
55	NONE
56	NONE

Input Channel

Input Channel ID		
CH01	CH01	CH01
CH02	CH02	CH02
CH03	CH03	CH03
CH04	CH04	CH04
CH05	CH05	CH05
CH06	CH06	CH06
CH07	CH07	CH07
CH08	CH08	CH08
CH09	CH09	CH09
CH10	CH10	CH10
CH11	CH11	CH11
CH12	CH12	CH12
CH13	CH13	CH13
CH14	CH14	CH14
CH15	CH15	CH15

Input Channel ID		
CH16	CH16	CH16
CH17	CH17	CH17
CH18	CH18	CH18
CH19	CH19	CH19
CH20	CH20	CH20
CH21	CH21	CH21
CH22	CH22	CH22
CH23	CH23	CH23
CH24	CH24	CH24
CH25	CH25	CH25
CH26	CH26	CH26
CH27	CH27	CH27
CH28	CH28	CH28
CH29	CH29	CH29
CH30	CH30	CH30
CH31	CH31	CH31
CH32	CH32	CH32
CH33	CH33	CH33
CH34	CH34	CH34
CH35	CH35	CH35
CH36	CH36	CH36
CH37	CH37	CH37
CH38	CH38	CH38
CH39	CH39	CH39
CH40	CH40	CH40
CH41	CH41	CH41
CH42	CH42	CH42
CH43	CH43	CH43
CH44	CH44	CH44
CH45	CH45	CH45
CH46	CH46	CH46
CH47	CH47	CH47
CH48	CH48	CH48
CH49	CH49	CH49
CH50	CH50	CH50
CH51	CH51	CH51
CH52	CH52	CH52
CH53	CH53	CH53
CH54	CH54	CH54
CH55	CH55	CH55
CH56	CH56	CH56

Output Channel

Output Channel ID		
BUS1	BUS1	BUS1
BUS2	BUS2	BUS2
BUS3	BUS3	BUS3
BUS4	BUS4	BUS4
UBS5	UBS5	UBS5
BUS6	BUS6	BUS6
BUS7	BUS7	BUS7
BUS8	BUS8	BUS8

Output Channel ID		
AUX1	AUX1	AUX1
AUX2	AUX2	AUX2
AUX3	AUX3	AUX3
AUX4	AUX4	AUX4
AUX5	AUX5	AUX5
AUX6	AUX6	AUX6
AUX7	AUX7	AUX7
AUX8	AUX8	AUX8
ST	ST	STEREO

Input Port

	ID		
AD1	AD01	AD01	AD IN 1
AD2	AD02	AD02	AD IN 2
AD3	AD03	AD03	AD IN 3
AD4	AD04	AD04	AD IN 4
AD5	AD05	AD05	AD IN 5
AD6	AD06	AD06	AD IN 6
AD7	AD07	AD07	AD IN 7
AD8	AD08	AD08	AD IN 8
AD9	AD09	AD09	AD IN 9
AD10	AD10	AD10	AD IN 10
AD11	AD11	AD11	AD IN 11
AD12	AD12	AD12	AD IN 12
AD13	AD13	AD13	AD IN 13
AD14	AD14	AD14	AD IN 14
AD15	AD15	AD15	AD IN 15
AD16	AD16	AD16	AD IN 16
AD17	AD17	AD17	AD IN 17
AD18	AD18	AD18	AD IN 18
AD19	AD19	AD19	AD IN 19
AD20	AD20	AD20	AD IN 20
AD21	AD21	AD21	AD IN 21
AD22	AD22	AD22	AD IN 22
AD23	AD23	AD23	AD IN 23
AD24	AD24	AD24	AD IN 24
SLOT1-01	S1-01	S101	Slot1 CH1 IN
SLOT1-02	S1-02	S102	Slot1 CH2 IN
SLOT1-03	S1-03	S103	Slot1 CH3 IN
SLOT1-04	S1-04	S104	Slot1 CH4 IN
SLOT1-05	S1-05	S105	Slot1 CH5 IN
SLOT1-06	S1-06	S106	Slot1 CH6 IN
SLOT1-07	S1-07	S107	Slot1 CH7 IN
SLOT1-08	S1-08	S108	Slot1 CH8 IN
SLOT1-09	S1-09	S109	Slot1 CH9 IN
SLOT1-10	S1-10	S110	Slot1 CH10 IN
SLOT1-11	S1-11	S111	Slot1 CH11 IN
SLOT1-12	S1-12	S112	Slot1 CH12 IN
SLOT1-13	S1-13	S113	Slot1 CH13 IN
SLOT1-14	S1-14	S114	Slot1 CH14 IN
SLOT1-15	S1-15	S115	Slot1 CH15 IN

	ID		
SLOT1-16	S1-16	S116	Slot1 CH16 IN
SLOT2-01	S2-01	S201	Slot2 CH1 IN
SLOT2-02	S2-02	S202	Slot2 CH2 IN
SLOT2-03	S2-03	S203	Slot2 CH3 IN
SLOT2-04	S2-04	S204	Slot2 CH4 IN
SLOT2-05	S2-05	S205	Slot2 CH5 IN
SLOT2-06	S2-06	S206	Slot2 CH6 IN
SLOT2-07	S2-07	S207	Slot2 CH7 IN
SLOT2-08	S2-08	S208	Slot2 CH8 IN
SLOT2-09	S2-09	S209	Slot2 CH9 IN
SLOT2-10	S2-10	S210	Slot2 CH10 IN
SLOT2-11	S2-11	S211	Slot2 CH11 IN
SLOT2-12	S2-12	S212	Slot2 CH12 IN
SLOT2-13	S2-13	S213	Slot2 CH13 IN
SLOT2-14	S2-14	S214	Slot2 CH14 IN
SLOT2-15	S2-15	S215	Slot2 CH15 IN
SLOT2-16	S2-16	S216	Slot2 CH16 IN
SLOT3-01	S3-01	S301	Slot3 CH1 IN
SLOT3-02	S3-02	S302	Slot3 CH2 IN
SLOT3-03	S3-03	S303	Slot3 CH3 IN
SLOT3-04	S3-04	S304	Slot3 CH4 IN
SLOT3-05	S3-05	S305	Slot3 CH5 IN
SLOT3-06	S3-06	S306	Slot3 CH6 IN
SLOT3-07	S3-07	S307	Slot3 CH7 IN
SLOT3-08	S3-08	S308	Slot3 CH8 IN
SLOT3-09	S3-09	S309	Slot3 CH9 IN
SLOT3-10	S3-10	S310	Slot3 CH10 IN
SLOT3-11	S3-11	S311	Slot3 CH11 IN
SLOT3-12	S3-12	S312	Slot3 CH12 IN
SLOT3-13	S3-13	S313	Slot3 CH13 IN
SLOT3-14	S3-14	S314	Slot3 CH14 IN
SLOT3-15	S3-15	S315	Slot3 CH15 IN
SLOT3-16	S3-16	S316	Slot3 CH16 IN
SLOT4-01	S4-01	S401	Slot4 CH1 IN
SLOT4-02	S4-02	S402	Slot4 CH2 IN
SLOT4-03	S4-03	S403	Slot4 CH3 IN
SLOT4-04	S4-04	S404	Slot4 CH4 IN
SLOT4-05	S4-05	S405	Slot4 CH5 IN
SLOT4-06	S4-06	S406	Slot4 CH6 IN
SLOT4-07	S4-07	S407	Slot4 CH7 IN
SLOT4-08	S4-08	S408	Slot4 CH8 IN
SLOT4-09	S4-09	S409	Slot4 CH9 IN
SLOT4-10	S4-10	S410	Slot4 CH10 IN
SLOT4-11	S4-11	S411	Slot4 CH11 IN
SLOT4-12	S4-12	S412	Slot4 CH12 IN
SLOT4-13	S4-13	S413	Slot4 CH13 IN
SLOT4-14	S4-14	S414	Slot4 CH14 IN
SLOT4-15	S4-15	S415	Slot4 CH15 IN
SLOT4-16	S4-16	S416	Slot4 CH16 IN
2TD1L	2TD1L	2D1L	2TR IN Dig.1 L
2TD1R	2TD1R	2D1R	2TR IN Dig.1 R
2TD2L	2TD2L	2D2L	2TR IN Dig.2 L

	ID		
2TD2R	2TD2R	2D2R	2TR IN Dig.2 R
2TD3L	2TD3L	2D3L	2TR IN Dig.3 L
2TD3R	2TD3R	2D3R	2TR IN Dig.3 R
2TA1L	2TA1L	2A1L	2TR IN Analog1 L
2TA1R	2TA1R	2A1R	2TR IN Analog1 R
2TA2L	2TA2L	2A2L	2TR IN Analog2 L
2TA2R	2TA2R	2A2R	2TR IN Analog2 R

Output Port

	ID		
SLOT1-01	S1-01	S101	Slot1 CH1 OUT
SLOT1-02	S1-02	S102	Slot1 CH2 OUT
SLOT1-03	S1-03	S103	Slot1 CH3 OUT
SLOT1-04	S1-04	S104	Slot1 CH4 OUT
SLOT1-05	S1-05	S105	Slot1 CH5 OUT
SLOT1-06	S1-06	S106	Slot1 CH6 OUT
SLOT1-07	S1-07	S107	Slot1 CH7 OUT
SLOT1-08	S1-08	S108	Slot1 CH8 OUT
SLOT1-09	S1-09	S109	Slot1 CH9 OUT
SLOT1-10	S1-10	S110	Slot1 CH10 OUT
SLOT1-11	S1-11	S111	Slot1 CH11 OUT
SLOT1-12	S1-12	S112	Slot1 CH12 OUT
SLOT1-13	S1-13	S113	Slot1 CH13 OUT
SLOT1-14	S1-14	S114	Slot1 CH14 OUT
SLOT1-15	S1-15	S115	Slot1 CH15 OUT
SLOT1-16	S1-16	S116	Slot1 CH16 OUT
SLOT2-01	S2-01	S201	Slot2 CH1 OUT
SLOT2-02	S2-02	S202	Slot2 CH2 OUT
SLOT2-03	S2-03	S203	Slot2 CH3 OUT
SLOT2-04	S2-04	S204	Slot2 CH4 OUT
SLOT2-05	S2-05	S205	Slot2 CH5 OUT
SLOT2-06	S2-06	S206	Slot2 CH6 OUT
SLOT2-07	S2-07	S207	Slot2 CH7 OUT
SLOT2-08	S2-08	S208	Slot2 CH8 OUT
SLOT2-09	S2-09	S209	Slot2 CH9 OUT
SLOT2-10	S2-10	S210	Slot2 CH10 OUT
SLOT2-11	S2-11	S211	Slot2 CH11 OUT
SLOT2-12	S2-12	S212	Slot2 CH12 OUT
SLOT2-13	S2-13	S213	Slot2 CH13 OUT
SLOT2-14	S2-14	S214	Slot2 CH14 OUT
SLOT2-15	S2-15	S215	Slot2 CH15 OUT
SLOT2-16	S2-16	S216	Slot2 CH16 OUT
SLOT3-01	S3-01	S301	Slot3 CH1 OUT
SLOT3-02	S3-02	S302	Slot3 CH2 OUT

	ID		
SLOT3-03	S3-03	S303	Slot3 CH3 OUT
SLOT3-04	S3-04	S304	Slot3 CH4 OUT
SLOT3-05	S3-05	S305	Slot3 CH5 OUT
SLOT3-06	S3-06	S306	Slot3 CH6 OUT
SLOT3-07	S3-07	S307	Slot3 CH7 OUT
SLOT3-08	S3-08	S308	Slot3 CH8 OUT
SLOT3-09	S3-09	S309	Slot3 CH9 OUT
SLOT3-10	S3-10	S310	Slot3 CH10 OUT
SLOT3-11	S3-11	S311	Slot3 CH11 OUT
SLOT3-12	S3-12	S312	Slot3 CH12 OUT
SLOT3-13	S3-13	S313	Slot3 CH13 OUT
SLOT3-14	S3-14	S314	Slot3 CH14 OUT
SLOT3-15	S3-15	S315	Slot3 CH15 OUT
SLOT3-16	S3-16	S316	Slot3 CH16 OUT
SLOT4-01	S4-01	S401	Slot4 CH1 OUT
SLOT4-02	S4-02	S402	Slot4 CH2 OUT
SLOT4-03	S4-03	S403	Slot4 CH3 OUT
SLOT4-04	S4-04	S404	Slot4 CH4 OUT
SLOT4-05	S4-05	S405	Slot4 CH5 OUT
SLOT4-06	S4-06	S406	Slot4 CH6 OUT
SLOT4-07	S4-07	S407	Slot4 CH7 OUT
SLOT4-08	S4-08	S408	Slot4 CH8 OUT
SLOT4-09	S4-09	S409	Slot4 CH9 OUT
SLOT4-10	S4-10	S410	Slot4 CH10 OUT
SLOT4-11	S4-11	S411	Slot4 CH11 OUT
SLOT4-12	S4-12	S412	Slot4 CH12 OUT
SLOT4-13	S4-13	S413	Slot4 CH13 OUT
SLOT4-14	S4-14	S414	Slot4 CH14 OUT
SLOT4-15	S4-15	S415	Slot4 CH15 OUT
SLOT4-16	S4-16	S416	Slot4 CH16 OUT
OMNI1	OMNI1	OMN1	OMNI OUT 1
OMNI2	OMNI2	OMN2	OMNI OUT 2
OMNI3	OMNI3	OMN3	OMNI OUT 3
OMNI4	OMNI4	OMN4	OMNI OUT 4
OMNI5	OMNI5	OMN5	OMNI OUT 5
OMNI6	OMNI6	OMN6	OMNI OUT 6
OMNI7	OMNI7	OMN7	OMNI OUT 7
OMNI8	OMNI8	OMN8	OMNI OUT 8
2TD1L	2TD1L	2D1L	2TR OUT Dig.1L
2TD1R	2TD1R	2D1R	2TR OUT Dig.1R
2TD2L	2TD2L	2D2L	2TR OUT Dig.2L
2TD2R	2TD2R	2D2R	2TR OUT Dig.2R
2TD3L	2TD3L	2D3L	2TR OUT Dig.3L
2TD3R	2TD3R	2D3R	2TR OUT Dig.3R

GPI

0	NO ASSIGN
1	CH1 FADER ON
2	CH2 FADER ON
3	CH3 FADER ON
4	CH4 FADER ON
5	CH5 FADER ON
6	CH6 FADER ON
7	CH7 FADER ON
8	CH8 FADER ON
9	CH9 FADER ON
10	CH10 FADER ON
11	CH11 FADER ON
12	CH12 FADER ON
13	CH13 FADER ON
14	CH14 FADER ON
15	CH15 FADER ON
16	CH16 FADER ON
17	CH17 FADER ON
18	CH18 FADER ON
19	CH19 FADER ON
20	CH20 FADER ON
21	CH21 FADER ON
22	CH22 FADER ON
23	CH23 FADER ON
24	CH24 FADER ON
25	CH25 FADER ON
26	CH26 FADER ON
27	CH27 FADER ON
28	CH28 FADER ON
29	CH29 FADER ON
30	CH30 FADER ON
31	CH31 FADER ON
32	CH32 FADER ON
33	CH33 FADER ON
34	CH34 FADER ON
35	CH35 FADER ON
36	CH36 FADER ON
37	CH37 FADER ON
38	CH38 FADER ON
39	CH39 FADER ON
40	CH40 FADER ON
41	CH41 FADER ON
42	CH42 FADER ON
43	CH43 FADER ON
44	CH44 FADER ON
45	CH45 FADER ON
46	CH46 FADER ON
47	CH47 FADER ON
48	CH48 FADER ON
49	CH49 FADER ON
50	CH50 FADER ON
51	CH51 FADER ON
52	CH52 FADER ON

53	CH53 FADER ON
54	CH54 FADER ON
55	CH55 FADER ON
56	CH56 FADER ON
57	BUS1 FADER ON
58	BUS2 FADER ON
59	BUS3 FADER ON
60	BUS4 FADER ON
61	BUS5 FADER ON
62	BUS6 FADER ON
63	BUS7 FADER ON
64	BUS8 FADER ON
65	AUX1 FADER ON
66	AUX2 FADER ON
67	AUX3 FADER ON
68	AUX4 FADER ON
69	AUX5 FADER ON
70	AUX6 FADER ON
71	AUX7 FADER ON
72	AUX8 FADER ON
73	STEREO FADER ON
74	CH1 FADER OFF
75	CH2 FADER OFF
76	CH3 FADER OFF
77	CH4 FADER OFF
78	CH5 FADER OFF
79	CH6 FADER OFF
80	CH7 FADER OFF
81	CH8 FADER OFF
82	CH9 FADER OFF
83	CH10 FADER OFF
84	CH11 FADER OFF
85	CH12 FADER OFF
86	CH13 FADER OFF
87	CH14 FADER OFF
88	CH15 FADER OFF
89	CH16 FADER OFF
90	CH17 FADER OFF
91	CH18 FADER OFF
92	CH19 FADER OFF
93	CH20 FADER OFF
94	CH21 FADER OFF
95	CH22 FADER OFF
96	CH23 FADER OFF
97	CH24 FADER OFF
98	CH25 FADER OFF
99	CH26 FADER OFF
100	CH27 FADER OFF
101	CH28 FADER OFF
102	CH29 FADER OFF
103	CH30 FADER OFF
104	CH31 FADER OFF
105	CH32 FADER OFF
106	CH33 FADER OFF
107	CH34 FADER OFF

108	CH35 FADER OFF
109	CH36 FADER OFF
110	CH37 FADER OFF
111	CH38 FADER OFF
112	CH39 FADER OFF
113	CH40 FADER OFF
114	CH41 FADER OFF
115	CH42 FADER OFF
116	CH43 FADER OFF
117	CH44 FADER OFF
118	CH45 FADER OFF
119	CH46 FADER OFF
120	CH47 FADER OFF
121	CH48 FADER OFF
122	CH49 FADER OFF
123	CH50 FADER OFF
124	CH51 FADER OFF
125	CH52 FADER OFF
126	CH53 FADER OFF
127	CH54 FADER OFF
128	CH55 FADER OFF
129	CH56 FADER OFF
130	BUS1 FADER OFF
131	BUS2 FADER OFF
132	BUS3 FADER OFF
133	BUS4 FADER OFF
134	BUS5 FADER OFF
135	BUS6 FADER OFF
136	BUS7 FADER OFF
137	BUS8 FADER OFF
138	AUX1 FADER OFF
139	AUX2 FADER OFF
140	AUX3 FADER OFF
141	AUX4 FADER OFF
142	AUX5 FADER OFF
143	AUX6 FADER OFF
144	AUX7 FADER OFF
145	AUX8 FADER OFF
146	STEREO FADER OFF
147	UDEF1 LATCH
148	UDEF2 LATCH
149	UDEF3 LATCH
150	UDEF4 LATCH
151	UDEF5 LATCH
152	UDEF6 LATCH
153	UDEF7 LATCH
154	UDEF8 LATCH
155	UDEF9 LATCH
156	UDEF10 LATCH
157	UDEF11 LATCH
158	UDEF12 LATCH
159	UDEF13 LATCH
160	UDEF14 LATCH
161	UDEF15 LATCH
162	UDEF16 LATCH

163	UDEF1 UNLATCH
164	UDEF2 UNLATCH
165	UDEF3 UNLATCH
166	UDEF4 UNLATCH
167	UDEF5 UNLATCH
168	UDEF6 UNLATCH
169	UDEF7 UNLATCH
170	UDEF8 UNLATCH
171	UDEF9 UNLATCH
172	UDEF10 UNLATCH
173	UDEF11 UNLATCH
174	UDEF12 UNLATCH
175	UDEF13 UNLATCH
176	UDEF14 UNLATCH
177	UDEF15 UNLATCH
178	UDEF16 UNLATCH
179	REC LAMP
180	POWER ON

Effect

REVERB HALL, REVERB ROOM, REVERB STAGE, REVERB PLATE

1, 2, , , reverb, gate

REV TIME	0.3-99.0 s	Reverb
INI.DLY	0.0-500.0 ms	Reverb delay
HI.RATIO	0.1-1.0	reverb
LO.RATIO	0.1-2.4	reverb
DIFF.	0.0-1.0	Reverb (reverb)
DENSITY	0-100%	Reverb
E/R DLY	0.0-100.0 ms	reverb delay
E/R BAL.	0-100%	reverb (0%= reverb, 100%=)
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
GATE LVL	OFF, -60 ~ 0 dB	gate†
ATTACK	0-120ms	gate
HOLD	1	Gate
DECAY	2	Gate

- 0,02 ms-2.13s(fs=44.1 kHz), 0,02 ms-1.96(fs=48 kHz), 0,01 ms-1.07 s(fs=88.2 kHz), 0,01 ms-980(fs=96 kHz)
- 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

EARLY REF.

1, 2

TYPE	, , , ,	
ROOMSIZE	0.1-20.0	
LIVENESS	0-10	(0= , 10=)
INI.DLY	0.0-500.0 ms	Reverb delay
DIFF.	0.0-1.0	()
DENSITY	0-100%	
ER NUM.	1-19	
FB GAIN	-100 ~ +100%	
HI.RATIO	0.1-1.0	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	

GATE REVERB, REVERSE GATE

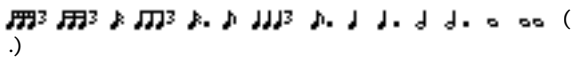
1, 2 gate gate

TYPE	A, B	
ROOMSIZE	0.1-20.0	
LIVENESS	0-10	(0= , 10=)
INI.DLY	0.0-500.0 ms	Reverb delay
DIFF.	0-10	()
DENSITY	0-100%	
HI.RATIO	0.1-1.0	
ER NUM.	1-19	
FB GAIN	-100 ~ +100%	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	

MONO DELAY

1, 2 delay

DELAY	0.0-2730.0 ms	Delay
FB.GAIN	-99 ~ +99%	()
HI.RATIO	0.1-1.0	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE	1	TEMPO DELAY

1. —  (.)

STEREO DELAY

2, 2 stereo delay

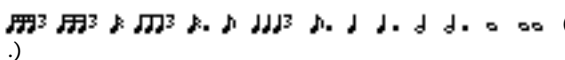
DELAY L	0.0-1350.0 ms	delay
DELAY R	0.0-1350.0 ms	delay
FB.G L	-99 ~ +99%	() ,
FB.G R	-99 ~ +99%	() ,
HI.RATIO	0.1-1.0	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE L	1	TEMPO DELAY
NOTE R	1	TEMPO DELAY

1. —  (.)

MOD.DELAY

Modulation 1, 2 delay


DELAY	0.0-2725.0 ms	Delay
FB.GAIN	-99 ~ +99%	() ,
HI.RATIO	0.1-1.0	
FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
WAVE	Sine/Tri(/)	Modulation
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
DLY NOTE	1	TEMPO DELAY
MOD NOTE	2	TEMPO FREQ

1. —  (.)2. 

DELAY LCR

1, 2, 3 delay(, ,)


DELAY L	0.0-2730.0 ms	delay
DELAY C	0.0-2730.0 ms	delay
DELAY R	0.0-2730.0 ms	delay
FB.DLY	0.0-2730.0 ms	delay
LEVEL L	-100 ~ +100%	delay
LEVEL C	-100 ~ +100%	delay
LEVEL R	-100 ~ +100%	delay
FB.GAIN	-99 ~ +99%	(,)
HI.RATIO	0.1 -1.0	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE L	1	TEMPO DELAY L
NOTE C	1	TEMPO DELAY C
NOTE R	1	TEMPO DELAY R
NOTE FB	1	TEMPO FB.DLY

1. —  (.)

ECHO

2, 2 stereo delay,

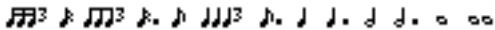
DELAY L	0.0-1350.0 ms	delay
DELAY R	0.0-1350.0 ms	delay
FB.D L	0.0-1350.0 ms	delay
FB.D R	0.0-1350.0 ms	delay
FB.G L	-99 ~ +99%	() ,
FB.G R	-99 ~ +99%	() ,
L->R FB.G	-99 ~ +99%	() ,
R->L FB.G	-99 ~ +99%	() ,
HI.RATIO	0.1-1.0	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE L	1	TEMPO DELAY L
NOTE R	1	TEMPO DELAY R
NOTE FBL	1	TEMPO FB.D L
NOTE FBR	1	TEMPO FB.D R

1. —  .)

CHORUS

2, 2 effect

FREQ.	0.05-40.00 Hz	Modulation
AM DEPTH	0-100%	Modulation
PM DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
WAVE	Sine, Tri() ,	Modulation
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
EQ F	100 Hz-8.00 kHz	EQ()
EQ G	-12 ~ +12 dB	EQ()
EQ Q	10.0-0.10	EQ()
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1.  ∞

FLANGE

2, 2 effect

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
FB.GAIN	-99 ~ +99%	()
WAVE	Sine, Tri()	Modulation
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
EQ F	100 Hz-8.00 kHz	EQ()
EQ G	-12 ~ +12 dB	EQ()
EQ Q	10.0-0.10	EQ()
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1.

SYMPHONIC

2, 2 effect

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
WAVE	Sine, Tri()	Modulation
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
EQ F	100 Hz-8.00 kHz	EQ()
EQ G	-12 ~ +12 dB	EQ()
EQ Q	10.0-0.10	EQ()
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	
NOTE	1	TEMPO FREQ.
SYNC	OFF/ON	/

1.

PHASER

2 ,2 16

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
FB.GAIN	-99 ~ +99%	() ,
OFFSET	0-100	
PHASE	0.00-354.38	modulation
STAGE	2, 4, 6, 8, 10, 12, 14, 16	
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

AUTOPAN

2 ,2

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
DIR.	1	
WAVE	Sine, Tri, Square() ,	Modulation
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
EQ F	100 Hz-8.00 kHz	EQ()
EQ G	-12 ~ +12 dB	EQ()
EQ Q	10.0-0.10	EQ()
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	
SYNC	OFF/ON	/
NOTE	2	TEMPO FREQ.

1. L<->R, L>R, L<R, Turn L, Turn R

2. 

TREMOLO

2, 2 effect

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
WAVE	Sine, Tri, Square()	Modulation
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
EQ F	100 Hz-8.00 kHz	EQ()
EQ G	-12 ~ +12 dB	EQ()
EQ Q	10.0-0.10	EQ()
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. Musical notation showing a sequence of notes with tremolo markings.

HQ.PITCH

1, 2 shifter

PITCH	-12 ~ +12	
FINE	-50 ~ -50	
DELAY	0.0-1000.0 ms	delay
FB.GAIN	-99 ~ +99%	()
MODE	1-10	
SYNC	OFF/ON	/
NOTE	1	TEMPO DELAY

1. Musical notation showing a sequence of notes with HQ.PITCH markings.

DUAL PITCH

2, 2 shifter

PITCH 1	-24 ~ +24	1
FINE 1	-50 ~ -50	1
LEVEL 1	-100 ~ +100%	1 (,)
PAN 1	L63 - R63	1 Pan
DELAY 1	0.0-1000.0 ms	1 delay
FB.G 1	-99 ~ +99%	1 (,)
PITCH 2	-24 ~ +24	2
FINE 2	-50 ~ -50	2
LEVEL 2	-100 ~ +100%	2 (,)
PAN 2	L63 - R63	2 Pan
DELAY 2	0.0-1000.0 ms	2 delay
FB.G 2	-99 ~ +99%	2 (,)
MODE	1-10	
SYNC	OFF/ON	/
NOTE 1	1	TEMPO 1 delay
NOTE 2	1	TEMPO 2 delay

1. — ()

ROTARY

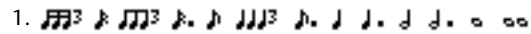
1, 2

ROTATE	STOP, START	,
SPEED	SLOW, FAST	(SLOW FAST)
SLOW	0.05-10.00 Hz	SLOW
FAST	0.05-10.00 Hz	FAST
DRIVE	0-100	
ACCEL	0-10	가
LOW	0-100	
HIGH	0-100	

RING MOD.

2, 2 modulator

SOURCE	OSC, SELF	Modulation : oscillator
OSC FREQ	0,0-5000.0 Hz	Oscillator
FM FREQ	0.05-40.00 Hz	Oscillator Modulation
FM DEPTH	0-100%	Oscillator Modulation
SYNC	OFF/ON	/
NOTE FM	1	TEMPO FM FREQ

1. **MOD.FILTER**

2, 2 modulation

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
PHASE	0.00-354.38 °	modulation modulation
TYPE	LPF, HPF, BPF	: , ,
OFFSET	0-100	
RESO.	0-20	
LEVEL	0-100	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ

1. **DISTORTION**

1, 2 effect

DST TYPE	DST1, DST2, OVD1, OVD2, CRUNCH	(DST= , OVD=)
DRIVE	0-100	
MASTER	0-100	
TONE	-10 ~ +10	
N. GATE	0-20	

AMP SIMULATE

1, 2

AMP TYPE	1	
DST TYPE	DST1, DST2, OVD1, OVD2, CRUNCH	(DST= , OVD=)
DRIVE	0-100	
MASTER	0-100	
BASS	0-100	
MIDDLE	0-100	
TREBLE	0-100	
CAB DEP	0-100%	
EQ F	99-8.0 kHz	EQ
EQ G	-12 ~ +12 dB	EQ
EQ Q	10.0-0.10	EQ
N. GATE	0-20	

1. STK-M1, STK-M2, THRASH, MIDBST, CMB-PG, CMB-VR, CMB-DX, CMB-TW, MINI, FLAT

DYNA.FILTER

2, 2

SOURCE	INPUT, MIDI	: MIDI On
SENSE	0-100	
DIR.	UP, DOWN	
DECAY	1	
TYPE	LPF, HPF, BPF	
OFFSET	0-100	
RESO.	0-20	
LEVEL	0-100	

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

DYNA.FLANGE

2 , 2

SOURCE	INPUT, MIDI	: MIDI On
SENSE	0-100	
DIR.	UP, DOWN	
DECAY	1	
OFFSET	0-100	Delay
FB GAIN	-99 ~ +99%	()
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
EQ F	100 Hz-8.00 kHz	EQ()
EQ G	-12 ~ +12 dB	EQ()
EQ Q	10.0-0.10	EQ()
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz),
3 ms-21.1 s(fs=96 kHz)

DYNA.PHASER

2 , 2

SOURCE	INPUT, MIDI	: MIDI On
SENSE	0-100	
DIR.	UP, DOWN	
DECAY	1	
OFFSET	0-100	
FB GAIN	-99 ~ +99%	()
STAGE	2, 4, 8, 10, 12, 14, 16	
LSH F	21.2 Hz-8.00 kHz	
LSH G	-12 ~ +12 dB	
HSH F	50.0 Hz-16.0 kHz	
HSH G	-12 ~ +12 dB	

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz),
3 ms-21.1 s(fs=96 kHz)

REV+CHORUS

1, 2 reverb effect

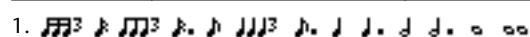
INI.DLY	0.0-500.0 ms	Reverb delay
REV TIME	0.3-99.0 s	Reverb
HI.RATIO	0.1-1.0	Reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
REV/CHO	0-100%	Reverb (0%= reverb, 100%=)
FREQ.	0.05-40.00 Hz	Modulation
AM DEPTH	0-100%	Modulation
PM DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
WAVE	Sine, Tri(,)	Modulation
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

REV->CHORUS

1, 2 reverb effect

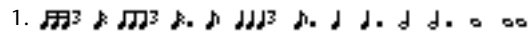
INI.DLY	0.0-500.0 ms	Reverb delay
REV TIME	0.3-99.0 s	Reverb
HI.RATIO	0.1-1.0	Reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
REV BAL.	0-100%	Reverb reverb (0%= reverb, 100%= reverb)
FREQ.	0.05-40.00 Hz	Modulation
AM DEPTH	0-100%	Modulation
PM DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	modulation delay
WAVE	Sine, Tri(,)	Modulation
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

REV+FLANGE

1 , 2 reverb effect


INI.DLY	0.0-500.0 ms	Delay delay
REV TIME	0.3-99.0 s	Reverb
HI.RATIO	0.1-1.0	reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
REV/FLG	0-100%	Reverb (0%= reverb, 100%=)
FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
FB.GAIN	-99 ~ +99%	()
WAVE	Sine, Tri(,)	Modulation
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

REV->FLANGE

1 , 2 reverb effect

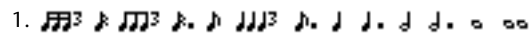
INI.DLY	0.0-500.0 ms	Reverb delay
REV TIME	0.3-99.0 s	Reverb
HI.RATIO	0.1?.0	Reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
REV BAL.	0-100%	Reverb reverb (0%= reverb, 100%= reverb)
FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
FB.GAIN	-99 ~ +99%	()
WAVE	Sine, Tri(,)	Modulation
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

REV+SYMPHO.

1, 2 reverb effect

INI.DLY	0.0-500.0 ms	Reverb delay
REV TIME	0.3-99.0 s	Reverb
HI.RATIO	0.1-1.0	Reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
REV/SYM	0-100%	Reverb (0%= reverb, 100%=)
FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
WAVE	Sine, Tri(,)	Modulation
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. **REV->SYMPHO.**

1, 2 reverb effect


INI.DLY	0.0-500.0 ms	Reverb delay
REV TIME	0.3-99.0 s	Reverb
HI.RATIO	0.1-1.0	Reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
REV BAL.	0-100%	Reverb reverb (0%= reverb, 100%= reverb)
FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-500.0 ms	Modulation delay
WAVE	Sine, Tri(,)	Modulation
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

REV->PAN

	1, 2	reverb	effect
INI.DLY	0.0-500.0 ms	Reverb	delay
REV TIME	0.3-99.0 s	Reverb	
HI.RATIO	0.1-1.0	Reverb	
DIFF.	0.1-1.0		
DENSITY	0-100%	Reverb	
HPF	THRU, 21.2 Hz-8.00 kHz		
LPF	50.0 Hz-16.0 kHz, THRU		
REV BAL.	0-100%	Reverb pan reverb reverb)	(0%= pan reverb, 100%= pan reverb)
FREQ.	0.05-40.00 Hz	Modulation	
DEPTH	0-100%	Modulation	
DIR.	1		
WAVE	Sine, Tri, Square(,)	Modulation	
SYNC	OFF/ON		/
NOTE	2	TEMPO	FREQ.

1. L<->R, L_>R, L<R, Turn L, Turn R

2. 

DELAY+ER.

1 , 2 delay effect.

DELAY L	0.0-1000.0 ms	delay
DELAY R	0.0-1000.0 ms	delay
FB.DLY	0.0-1000.0 ms	delay
FB.GAIN	-99 ~ +99%	() ,
HI.RATIO	0.1-1.0	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
DLY/ER	0-100%	Delay (0%= delay, 100%=)
TYPE	, , , ,	
ROOMSIZE	0.1-10.0	
LIVENESS	0-10	(0= , 10=)
INI.DLY	0.0-500.0 ms	Reverb delay
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
ER NUM.	1-19	
SYNC	OFF/ON	/
NOTE L	1	TEMPO DELAY L
NOTE R	1	TEMPO DELAY R
NOTE FB	1	TEMPO FB. DLY

1. —)

DELAY->ER.

	1, 2	delay	effect
DELAY L	0.0-1000.0 ms		delay
DELAY R	0.0-1000.0 ms		delay
FB.DLY	0.0-1000.0 ms		delay
FB.GAIN	-99 ~ +99%		()
HI.RATIO	0.1-1.0		
HPF	THRU, 21.2 Hz-8.00 kHz		
LPF	50.0 Hz-16.0 kHz, THRU		
DLY BAL.	0-100%	Delay	delay (0%= delay, 100%= delay)
TYPE	, , ,		
ROOMSIZE	0.1-10.0		
LIVENESS	0-10		(0= , 10=)
INI.DLY	0.0-500.0 ms	Reverb	delay
DIFF.	0.1-1.0		
DENSITY	0-100%	Reverb	
ER NUM.	1-19		
SYNC	OFF/ON		/
NOTE L	1	TEMPO	DELAY L
NOTE R	1	TEMPO	DELAY R
NOTE FB	1	TEMPO	FB.DLY

1. — ()

DELAY->REV

1 , 2 delay reverb effect

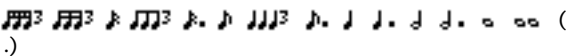
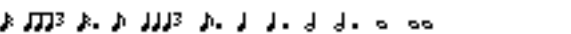
DELAY L	0.0-1000.0 ms	delay
DELAY R	0.0-1000.0 ms	delay
FB.DLY	0.0-1000.0 ms	delay
FB.GAIN	-99 ~ +99%	()
DELAY HI	0.1-1.0	Delay
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
DLY BAL	0-100%	Delay delay reverb (0%= delay reverb, 100%= delay)
INI.DLY	0.0-500.0 ms	Reverb delay
REV TIME	0.3-99.0 s	Reverb
REV HI	0.1-1.0	Reverb
DIFF.	0.1-1.0	
DENSITY	0-100%	Reverb
SYNC	OFF/ON	/
NOTE L	1	TEMPO DELAY L
NOTE R	*1	TEMPO DELAY R
NOTE FB	*1	TEMPO FB.DLY

1. — ()

DIST->DELAY

1, 2 delay effect

DST TYPE	DST1, DST2, OVD1, OVD2, CRUNCH	(DST= , OVD=)
DRIVE	0-100	
MASTER	0-100	
STONE	-10 ~ +10	
N. GATE	0-20	
DELAY	0.0-2725.0 ms	Delay
FB.GAIN	-99 ~ +99%	()
HI.RATIO	0.1-1.0	
FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
DLY BAL	0-100%	delay delay (0%= , 100%= delay)
SYNC	OFF/ON	/
DLY NOTE	1	TEMPO DELAY
MOD NOTE	2	TEMPO FREQ.

1. —  (.)
2. 

MULTI FILTER

2, 2 3band (24 dB/).

TYPE 1	HPF, LPF, BPF	1 : , ,
TYPE 2	HPF, LPF, BPF	2 : , ,
TYPE 3	HPF, LPF, BPF	3 : , ,
FREQ. 1	28 Hz-16.0 kHz	1
FREQ. 2	28 Hz-16.0 kHz	2
FREQ. 3	28 Hz-16.0 kHz	3
LEVEL 1	0-100	1
LEVEL 2	0-100	2
LEVEL 3	0-100	3
RESO. 1	0-20	1
RESO. 2	0-20	2
RESO. 3	0-20	3

FREEZE

1, 1

REC MODE	MANUAL, INPUT	MANUAL, REC, PLAY INPUT, REC
REC DLY	-1000 ~ +1000 ms	delay.
TRG LVL	-60 ~ 0 dB	(,)
TRG MASK	0-1000.0 ms	TRG MASK
PLAY MODE	MOMENT, CONT., INPUT	MOMENT, PLAY, CONT., PLAY, LOOP NUM INPUT
START	1	
END	1	
LOOP	1	
LOOP NUM	0-100	
START [SAMPLE]	0-262000	
END [SAMPLE]	0-262000	
LOOP [SAMPLE]	0-262000	
PITCH	-12 ~ +12	
FINE	-50 ~ -50	
MIDI TRG	OFF, C1-C6, ALL	MIDI on/off PLAY

1. 0.0-5941.0 ms(fs=44.1 kHz), 0.0 ms-5458.3 ms(fs=48 kHz), 0.0-2970.5 ms(fs=88.2 kHz), 0.0 ms-2729.1 ms(fs=96 kHz)

ST REVERB

2, 2 stereo reverb

REV TIME	0.3-99.0 s	Reverb
REV TYPE	, , ,	Reverb
INI.DLY	0.0-100.0 ms	Reverb delay
HI.RATIO	0.1-1.0	Reverb
LO.RATIO	0.1-2.4	Reverb
DIFF.	0.0-1.0	Reverb (reverb)
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
E/R BAL.	0-100%	reverb (0%= reverb, 100%=)

REVERB 5.1

1, 6 5.1 Surround reverb, surround pan

REV TIME	0.3-99.0 s	Reverb
REV TYPE	, , ,	Reverb
HI.RATIO	0.1-1.0	Reverb
DIFF.	0.0-1.0	Reverb (reverb)
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
DIV.	0-100%	, (,가). 0% . 50% , , , . 100% , , , (,)
ROOMSIZE	0.1-10.0	reverb
POS L/R	L63-R63	/
POS F/R	F63-R63	/
POS CTRL	OFF, NOR, INV	1
ER L/R	L63-R63	/
ER F/R	F63-R63	/
ER LVL	0-100	
ER CTRL	OFF, NOR, INV	1
REV L/R	L63-R63	/ reverb
REV F/R	F63-R63	/ reverb
REV LVL	0-100	Reverb
REV CTRL	OFF, NOR, INV	1

1. NOR , SELECTED CHANNEL PAN/SURROUND [EFFECT] indicator가
 . INV ,
 . OFF , control .

OCTA REVERB

8, 8 reverb

REV TIME	0.3-99.0 s	Reverb
REV TYPE	, , ,	Reverb
INI.DLY	0.0-100.0 ms	Reverb delay
HI.RATIO	0.1-1.0	Reverb
LO.RATIO	0.1-2.4	Reverb
DIFF.	0.0-1.0	Reverb (reverb)
DENSITY	0-100%	Reverb
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
E/R BAL.	0-100%	reverb (0%= reverb, 100%=)

AUTO PAN 5.1

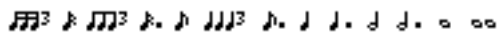
6, 6 5.1 surround . RESET OFFSET

SOURCE	OFF, HOLD, INPUT, MIDI	OFF, TRIGGER, HOLD, INPUT, MIDI 가 On
TRIG.LVL	-60 ~ 0 dB	(, SOURCE INPUT)
TIME	0.1 s-10.0 s	
SPEED	0.05 Hz-40.00 Hz	
DIR.	Turn L, Turn R	
OFFSET	-180 ~ +180	
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	

CHORUS 5.1

6, 6 5.1 surround

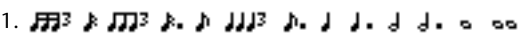
FREQ.	0.05-40.00 Hz	Modulation
AM DEPTH	0-100%	Modulation
PM DEPTH	0-100%	Modulation
MOD.DLY	0.0-400.0 ms	Modulation delay
WAVE	Sine, Tri()	Modulation
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

FLANGE 5.1

6 ,6 5.1 surround

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-400.0 ms	Modulation delay
FB.GAIN	-99 ~ +99%	() ,
WAVE	Sine, Tri(,)	Modulation
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. **SYMPHO 5.1**

6 ,6 5.1 surround effect

FREQ.	0.05-40.00 Hz	Modulation
DEPTH	0-100%	Modulation
MOD.DLY	0.0-400.0 ms	Modulation delay
WAVE	Sine, Tri(,)	Modulation
HPF	THRU, 21.2 Hz-8.00 kHz	
LPF	50.0 Hz-16.0 kHz, THRU	
SYNC	OFF/ON	/
NOTE	1	TEMPO FREQ.

1. 

M. BAND DYNA.

2 , 2 3 band , band

LOW GAIN	-96.0 ~ +12.0 dB	
MID GAIN	-96.0 ~ +12.0 dB	
HI.GAIN	-96.0 ~ +12.0 dB	
PRESENCE	-10 ~ +10	band band , 3
EXP.THRE	-54.0 dB ~ -24.0 dB	Expander
EXP.RAT	1:1 ~ :1	Expander
EXP.REL	1	Expander
EXP.BYP	ON/OFF	Expander
CMP.THRE	-24.0 dB ~ 0.0 dB	Compressor
CMP.RAT	1:1 - 20:1	Compressor
CMP.REL	1	Compressor
CMP.ATK	0-120 ms	Compressor
CMP.KNEE	0-5	Compressor
CMP.BYP	ON/OFF	Compressor
LIM.THRE	-12.0 dB ~ 0.0 dB	Limiter
LIM.REL	1	Limiter
LIM.ATK	0-120 ms	Limiter
LIM.KNEE	0-5	Limiter
LIM.BYP	ON/OFF	Limiter
LOOKUP	0.0-100.0 ms	Delay
L-MXOVR	21.2 Hz-8.00 kHz	/
M-HXOVR	21.2 Hz-8.00 kHz	/
SLOPE	-6 dB ~ -12 dB	
CEILING	-6.0 dB ~ 0.0 dB, OFF	

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz), 3 ms-21.1 s(fs=96 kHz)

COMP 5.1

6, 6 5.1 surround compressor, (L+R),
surround surround(LS+RS), (C) LFE

LOW GAIN	-96.0 ~ +12.0 dB	band
MID GAIN	-96.0 ~ +12.0 dB	band
HI.GAIN	-96.0 ~ +12.0 dB	band
PRESENCE	-10 ~ +10	band band 3 band가 .0
THRE	-24.0 dB ~ 0.0 dB	Compressor
RATIO	1:1 ~ :1	Compressor
ATTACK	0-120 ms	Compressor
RELEASE	1	Expander
KNEE	0-5	Compressor
LOOKUP	0.0-100.0 ms	Delay
CEILING	-6.0 dB ~ 0.0 dB, OFF	
L-MXOVR	21.2 Hz-8.00 kHz	/
M-HXOVR	21.2 Hz-8.00 kHz	/
SLOPE	-6 dB ~ -12 dB	
KEY LINK	2	(key-in)

1. 6.0 ms-46.0 s(fs=44.1 kHz), 5.0 ms-42.3 s(fs=48 kHz), 3 ms-23.0 s(fs=88.2 kHz),
3 ms-21.1 s(fs=96 kHz)

2. 5.1: (key-in) . 5.0: L, C, R, LS, RS (key-in)
(LFE) . 3+2: L, C, R (key-in) , LS RS가 .2+2: L R
(key-in) , LS RS가 .

COMPAND 5.1

6, 6 5.1 surround compander, band (L+R),
surround surround(LS+RS), (C) LFE

LOW GAIN	-96.0 ~ +12.0 dB	band
MID GAIN	-96.0 ~ +12.0 dB	band
HI.GAIN	-96.0 ~ +12.0 dB	band
PRESENCE	-10 ~ +10	band, band, band, 3
THRE	-24.0 dB ~ 0.0 dB	Compressor
RATIO	1:1 - 20:1	Compressor
ATTACK	0-20 ms	Compressor
WIDTH	1-90 dB	Expander
TYPE	,	Compander
LOOKUP	0.0-100.0 ms	Delay
CEILING	-6.0 dB ~ 0.0 dB, OFF	
L-MXOVR	21.2 Hz-8.00 kHz	/
M-HXOVR	21.2 Hz-8.00 kHz	/
SLOPE	-6 dB ~ -12 dB	
KEY LINK	1	(key-in)

1. 5.1: (key-in) . 5.0: L, C, R, LS, RS (key-in)
(LFE) . 3+2: L, C, R (key-in) , LS RS가 . 2+2: L R
(key-in) , LS RS가 .

EQ

			LOW	L-MID	H-MID	HIGH
01	Bass Drum 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3,5 dB	-1.5 dB	0.0 dB	+4,0 dB
		F	100 Hz	265 Hz	1,06 kHz	5,30 kHz
		Q	1.2	10	0.9	-
02	Bass Drum 2		PEAKING	PEAKING	PEAKING	LPF
		G	+8,0 dB	-7.0 dB	+6,0 dB	ON
		F	80 Hz	400 Hz	2,50 kHz	12,5 kHz
		Q	1.4	4.5	2.2	-
03	Snare Drum 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	0.0 dB	+3,0 dB	+4,5 dB
		F	132 Hz	1,00 kHz	3,15 kHz	5,00 kHz
		Q	1.2	4.5	0.11	-
04	Snare Drum 2		L.SHELF	PEAKING	PEAKING	PEAKING
		G	+1,5 dB	-1.5 dB	+2,5 dB	+4,0 dB
		F	180 Hz	335 Hz	2,36 kHz	4,00 kHz
		Q	-	10	0.7	0.1
05	Tom-tom 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	+2,0 dB	-1.5 dB	+2,0 dB	+1,0 dB
		F	212 Hz	670 Hz	4,50 kHz	6,30 kHz
		Q	1.4	10	1.2	0.28
06	Cymbal		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-2.0 dB	0.0 dB	0.0 dB	+3,0 dB
		F	106 Hz	425 Hz	1,06 kHz	13,2 kHz
		Q	-	8	0.9	-
07	High Hat		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-4.0 dB	-1.5 dB	+1,0 dB	+0,5 dB
		F	95 Hz	425 Hz	2,80 kHz	7,50 kHz
		Q	-	0.5	1	-
08	Percussion		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	0.0 dB	+2,0 dB	0.0 dB
		F	100 Hz	400 Hz	2,80 kHz	17,0 kHz
		Q	-	4.5	0.56	-
09	E. Bass 1		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	+4,5 dB	+2,5 dB	0.0 dB
		F	35.5 Hz	112 Hz	2,00 kHz	4,00 kHz
		Q	-	5	4.5	-
10	E. Bass 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3,0 dB	0.0 dB	+2,5 dB	+0,5 dB
		F	112 Hz	112 Hz	2,24 kHz	4,00 kHz
		Q	0.1	5	6.3	-

		LOW	L-MID	H-MID	HIGH	
11	Syn.Bass 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3,5 dB	+8,5 dB	0.0 dB	0.0 dB
		F	85 Hz	950 Hz	4,00 kHz	12,5 kHz
		Q	0.1	8	4.5	-
12	Syn.Bass 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2,5 dB	0.0 dB	+1,5 dB	0.0 dB
		F	125 Hz	180 Hz	1,12 kHz	12,5 kHz
		Q	1.6	8	2.2	-
13	Piano 1		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-6.0 dB	0.0 dB	+2,0 dB	+4,0 dB
		F	95 Hz	950 Hz	3,15 kHz	7,50 kHz
		Q	-	8	0.9	-
14	Piano 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+3,5 dB	-1.5 dB	+1,5 dB	+3,0 dB
		F	224 Hz	600 Hz	3,15 kHz	5,30 kHz
		Q	5.6	10	0.7	-
15	E. G. Clean		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2,0 dB	-1.5 dB	+0,5 dB	+2,5 dB
		F	265 Hz	400 Hz	1,32 kHz	4,50 kHz
		Q	0.18	10	6.3	-
16	E. G. Crunch 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	+4,5 dB	0.0 dB	+4,0 dB	+2,0 dB
		F	140 Hz	1,00 kHz	1,90 kHz	5,60 kHz
		Q	8	4.5	0.63	9
17	E. G. Crunch 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2,5 dB	+1,5 dB	+2,5 dB	0.0 dB
		F	125 Hz	450 Hz	3,35 kHz	19,0 kHz
		Q	8	0.4	0.16	-
18	E. G. Dist. 1		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	+5,0 dB	0.0 dB	+3,5 dB	0.0 dB
		F	355 Hz	950 Hz	3,35 kHz	12,5 kHz
		Q	-	9	10	-
19	E. G. Dist. 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	+6,0 dB	-1.5 dB	+4,5 dB	+4,0 dB
		F	315 Hz	1,06 kHz	4,25 kHz	12,5 kHz
		Q	-	10	4	-
20	A. G. Stroke 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-2.0 dB	0.0 dB	+1,0 dB	+4,0 dB
		F	106 Hz	1,00 kHz	1,90 kHz	5,30 kHz
		Q	0.9	4.5	3.5	-
21	A. G. Stroke 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-3.5 dB	-2.0 dB	0.0 dB	+2,0 dB
		F	300 Hz	750 Hz	2,00 kHz	3,55 kHz
		Q	-	9	4.5	-

			LOW	L-MID	H-MID	HIGH
22	A. G. Arpeg. 1		L.SHELF	PEAKING	PEAKING	PEAKING
		G	-1.5 dB	0.0 dB	0.0 dB	+2,0 dB
		F	224 Hz	1,00 kHz	4,00 kHz	6,70 kHz
		Q	-	4.5	4.5	0.12
23	A. G. Arpeg. 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	0.0 dB	-1.5 dB	0.0 dB	+4,0 dB
		F	180 Hz	355 Hz	4,00 kHz	4,25 kHz
		Q	-	7	4.5	-
24	Brass Sec.		PEAKING	PEAKING	PEAKING	PEAKING
		G	-2.0 dB	-1.0 dB	+1,5 dB	+3,0 dB
		F	90 Hz	850 Hz	2,12 kHz	4,50 kHz
		Q	2.8	2	0.7	7
25	Male Vocal 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	-1.5 dB	0.0 dB	+2,0 dB	+3,5 dB
		F	190 Hz	1,00 kHz	2,00 kHz	6,70 kHz
		Q	0.11	4.5	0.56	0.11
26	Male Vocal 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+2,0 dB	-5.0 dB	-1.5 dB	+4,0 dB
		F	170 Hz	236 Hz	2,65 kHz	6,70 kHz
		Q	0.11	10	5.6	-
27	Female Vo. 1		PEAKING	PEAKING	PEAKING	PEAKING
		G	-1.0 dB	+1,0 dB	+1,5 dB	+2,0 dB
		F	118 Hz	400 Hz	2,65 kHz	6,00 kHz
		Q	0.18	0.45	0.56	0.14
28	Female Vo. 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-7.0 dB	+1,5 dB	+1,5 dB	+2,5 dB
		F	112 Hz	335 Hz	2,00 kHz	6,70 kHz
		Q	-	0.16	0.2	-
29	Chorus & Harmo		PEAKING	PEAKING	PEAKING	PEAKING
		G	-2.0 dB	-1.0 dB	+1,5 dB	+3,0 dB
		F	90 Hz	850 Hz	2,12 kHz	4,50 kHz
		Q	2.8	2	0.7	7
30	Total EQ 1		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	0.0 dB	+3,0 dB	+6,5 dB
		F	95 Hz	950 Hz	2,12 kHz	16,0 kHz
		Q	7	2.2	5.6	-
31	Total EQ 2		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+4,0 dB	+1,5 dB	+2,0 dB	+6,0 dB
		F	95 Hz	750 Hz	1,80 kHz	18,0 kHz
		Q	7	2.8	5.6	-
32	Total EQ 3		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	+1,5 dB	+0,5 dB	+2,0 dB	+4,0 dB
		F	67 Hz	850 Hz	1,90 kHz	15,0 kHz
		Q	-	0.28	0.7	-

		LOW	L-MID	H-MID	HIGH	
33	Bass Drum 3		PEAKING	PEAKING	PEAKING	PEAKING
		G	+3,5 dB	-10.0 dB	+3,5 dB	0.0 dB
		F	118 Hz	315 Hz	4,25 kHz	20,0 kHz
		Q	2	10	0.4	0.4
34	Snare Drum 3		L.SHELF	PEAKING	PEAKING	PEAKING
		G	0.0 dB	+2,0 dB	+3,5 dB	0.0 dB
		F	224 Hz	560 Hz	4,25 kHz	4,00 kHz
		Q	-	4.5	2.8	0.1
35	Tom-tom 2		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-9.0 dB	+1,5 dB	+2,0 dB	0.0 dB
		F	90 Hz	212 Hz	5,30 kHz	17,0 kHz
		Q	-	4.5	1.2	-
36	Piano 3		PEAKING	PEAKING	PEAKING	H.SHELF
		G	+4,5 dB	-13.0 dB	+4,5 dB	+2,5 dB
		F	100 Hz	475 Hz	2,36 kHz	10.0 kHz
		Q	8	10	9	-
37	Piano Low		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	+1,5 dB	+6,0 dB	0.0 dB
		F	190 Hz	400 Hz	6,70 kHz	12,5 kHz
		Q	10	6.3	2.2	-
38	Piano High		PEAKING	PEAKING	PEAKING	PEAKING
		G	-1.5 dB	+1,5 dB	+5,0 dB	+3,0 dB
		F	190 Hz	400 Hz	6,70 kHz	5,60 kHz
		Q	10	6.3	2.2	0.1
39	Fine-EQ Cass		L.SHELF	PEAKING	PEAKING	H.SHELF
		G	-1.5 dB	0.0 dB	+1,0 dB	+3,0 dB
		F	75 Hz	1,00 kHz	4,00 kHz	12,5 kHz
		Q	-	4.5	1.8	-
40	Narrator		PEAKING	PEAKING	PEAKING	H.SHELF
		G	-4.0 dB	-1.0 dB	+2,0 dB	0.0 dB
		F	106 Hz	710 Hz	2,50 kHz	10.0 kHz
		Q	4	7	0.63	-

Gate (fs = 44.1 kHz)

1	Gate	GATE	Threshold(dB)	-26
			Range(dB)	-56
			Attack(ms)	0
			Hold(ms)	2.56
			Decay(ms)	331
2	Ducking	DUCKING	Threshold(dB)	-19
			Range(dB)	-22
			Attack(ms)	93
			Hold(ms)	1,20 S
			Decay(ms)	6,32 S
3	A. Dr. BD	GATE	Threshold(dB)	-11
			Range(dB)	-53
			Attack(ms)	0
			Hold(ms)	1.93
			Decay(ms)	400
4	A. Dr. SN	GATE	Threshold(dB)	-8
			Range(dB)	?3
			Attack(ms)	1
			Hold(ms)	0.63
			Decay(ms)	238

Compressor (fs = 44.1 kHz)

1	Comp	COMP	Threshold(dB)	-8
			Ratio(:1)	2.5
			Attack(ms)	60
			Out gain(dB)	0.0
			Knee	2
			Release(ms)	250
2	Expand	EXPAND	Threshold(dB)	-23
			Ratio(:1)	1.7
			Attack(ms)	1
			Out gain(dB)	3.5
			Knee	2
			Release(ms)	70
3	Compander(H)	COMPAND-H	Threshold(dB)	-10
			Ratio(:1)	3.5
			Attack(ms)	1
			Out gain(dB)	0.0
			Width(dB)	6
			Release(ms)	250
4	Compander(S)	COMPAND-S	Threshold(dB)	-8
			Ratio(:1)	4
			Attack(ms)	25
			Out gain(dB)	0.0
			Width(dB)	24
			Release(ms)	180

5	A. Dr. BD	COMP	Threshold(dB)	-24
			Ratio(:1)	3
			Attack(ms)	9
			Out gain(dB)	5.5
			Knee	2
			Release(ms)	58
6	A. Dr. BD	COMPAND-H	Threshold(dB)	-11
			Ratio(:1)	3.5
			Attack(ms)	1
			Out gain(dB)	-1.5
			Width(dB)	7
			Release(ms)	192
7	A. Dr. SN	COMP	Threshold(dB)	-17
			Ratio(:1)	2.5
			Attack(ms)	8
			Out gain(dB)	3.5
			Knee	2
			Release(ms)	12
8	A. Dr. SN	EXPAND	Threshold(dB)	-23
			Ratio(:1)	2
			Attack(ms)	0
			Out gain(dB)	0.5
			Knee	2
			Release(ms)	151
9	A. Dr. SN	COMPAND-S	Threshold(dB)	-8
			Ratio(:1)	1.7
			Attack(ms)	11
			Out gain(dB)	0.0
			Width(dB)	10
			Release(ms)	128
10	A. Dr. Tom	EXPAND	Threshold(dB)	-20
			Ratio(:1)	2
			Attack(ms)	2
			Out gain(dB)	5.0
			Knee	2
			Release(ms)	749
11	A. Dr. OverTop	COMPAND-S	Threshold(dB)	-24
			Ratio(:1)	2
			Attack(ms)	38
			Out gain(dB)	-3.5
			Width(dB)	54
			Release(ms)	842
12	E. B. Finger	COMP	Threshold(dB)	-12
			Ratio(:1)	2
			Attack(ms)	15
			Out gain(dB)	4.5
			Knee	2
			Release(ms)	470

13	E. B. Slap	COMP	Threshold(dB)	-12
			Ratio(:1)	1.7
			Attack(ms)	6
			Out gain(dB)	4.0
			Knee	hard
			Release(ms)	133
14	Syn.Bass	COMP	Threshold(dB)	-10
			Ratio(:1)	3.5
			Attack(ms)	9
			Out gain(dB)	3.0
			Knee	hard
			Release(ms)	250
15	Piano1	COMP	Threshold(dB)	-9
			Ratio(:1)	2.5
			Attack(ms)	17
			Out gain(dB)	1.0
			Knee	hard
			Release(ms)	238
16	Piano2	COMP	Threshold(dB)	-18
			Ratio(:1)	3.5
			Attack(ms)	7
			Out gain(dB)	6.0
			Knee	2
			Release(ms)	174
17	E. Guitar	COMP	Threshold(dB)	-8
			Ratio(:1)	3.5
			Attack(ms)	7
			Out gain(dB)	2.5
			Knee	4
			Release(ms)	261
18	A. Guitar	COMP	Threshold(dB)	-10
			Ratio(:1)	2.5
			Attack(ms)	5
			Out gain(dB)	1.5
			Knee	2
			Release(ms)	238
19	Strings1	COMP	Threshold(dB)	-11
			Ratio(:1)	2
			Attack(ms)	33
			Out gain(dB)	1.5
			Knee	2
			Release(ms)	749
20	Strings2	COMP	Threshold(dB)	-12
			Ratio(:1)	1.5
			Attack(ms)	93
			Out gain(dB)	1.5
			Knee	4
			Release(ms)	1.35 S

21	Strings3	COMP	Threshold(dB)	-17
			Ratio(:1)	1.5
			Attack(ms)	76
			Out gain(dB)	2.5
			Knee	2
			Release(ms)	186
22	BrassSection	COMP	Threshold(dB)	-18
			Ratio(:1)	1.7
			Attack(ms)	18
			Out gain(dB)	4.0
			Knee	1
			Release(ms)	226
23	Syn.Pad	COMP	Threshold(dB)	-13
			Ratio(:1)	2
			Attack(ms)	58
			Out gain(dB)	2.0
			Knee	1
			Release(ms)	238
24	SamplingPerc	COMPAND-S	Threshold(dB)	-18
			Ratio(:1)	1.7
			Attack(ms)	8
			Out gain(dB)	-2.5
			Width(dB)	18
			Release(ms)	238
25	Sampling BD	COMP	Threshold(dB)	-14
			Ratio(:1)	2
			Attack(ms)	2
			Out gain(dB)	3.5
			Knee	4
			Release(ms)	35
26	Sampling SN	COMP	Threshold(dB)	-18
			Ratio(:1)	4
			Attack(ms)	8
			Out gain(dB)	8.0
			Knee	hard
			Release(ms)	354
27	Hip Comp	COMPAND-S	Threshold(dB)	-23
			Ratio(:1)	20
			Attack(ms)	15
			Out gain(dB)	0.0
			Width(dB)	15
			Release(ms)	163
28	Solo Vocal1	COMP	Threshold(dB)	-20
			Ratio(:1)	2.5
			Attack(ms)	31
			Out gain(dB)	2.0
			Knee	1
			Release(ms)	342

29	Solo Vocal2	COMP	Threshold(dB)	-8
			Ratio(:1)	2.5
			Attack(ms)	26
			Out gain(dB)	1.5
			Knee	3
			Release(ms)	331
30	Chorus	COMP	Threshold(dB)	-9
			Ratio(:1)	1.7
			Attack(ms)	39
			Out gain(dB)	2.5
			Knee	2
			Release(ms)	226
31	Click Erase	EXPAND	Threshold(dB)	-33
			Ratio(:1)	2
			Attack(ms)	1
			Out gain(dB)	2.0
			Knee	2
			Release(ms)	284
32	Announcer	COMPAND-H	Threshold(dB)	-14
			Ratio(:1)	2.5
			Attack(ms)	1
			Out gain(dB)	-2.5
			Width(dB)	18
			Release(ms)	180
33	Limiter1	COMPAND-S	Threshold(dB)	-9
			Ratio(:1)	3
			Attack(ms)	20
			Out gain(dB)	-3.0
			Width(dB)	90
			Release(ms)	3.90 s
34	Limiter2	COMP	Threshold(dB)	0
			Ratio(:1)	?
			Attack(ms)	0
			Out gain(dB)	0.0
			Knee	hard
			Release(ms)	319
35	Total Comp1	COMP	Threshold(dB)	-18
			Ratio(:1)	3.5
			Attack(ms)	94
			Out gain(dB)	2.5
			Knee	hard
			Release(ms)	447
36	Total Comp2	COMP	Threshold(dB)	-16
			Ratio(:1)	6
			Attack(ms)	11
			Out gain(dB)	6.0
			Knee	1
			Release(ms)	180

B:

Scene Memory		99
		44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
		:44.1 kHz-10% ~ 48 kHz+6%
		2 : 88.2 kHz-10% ~ 96 kHz+6%
Delay		2.0ms CH INPUT STEREO OUT (fs=48 kHz)
		1.1ms CH INPUT STEREO OUT (fs=96 kHz)
Fader		100 mm fader, X 25
Fader		+10 -96, - dB (256 /100 mm) fader
		0 ~ -130, - dB (256 /100 mm) fader, stereo fader
1 (CH INPUT STEREO OUT) (=)	fs=48 kHz	0.05% 20 Hz ~ 20 kHz @ +14 dB, 600 0.01% 1 kHz @ +18 dB, 600
	fs=96 kHz	0.05% 20 Hz ~ 40 kHz @ +14 dB, 600 0.01% 1 kHz @ +18 dB into 600
(CH INPUT STEREO OUT)		20 Hz-20 kHz, 0.5, -1.5 dB @ +4 dB, 600 (fs=48 kHz)
		20 Hz-40 kHz, 0.5, -1.5 dB @ +4 dB, 600 (fs=96 kHz)
()		110 dB typ.DA Converter(STEREO OUT)
		105 dB typ.AD+DA (to STEREO OUT) @ fs=48 kHz
		105 dB typ.AD+DA (to STEREO OUT) @ fs=96 kHz
Hum Noise² (20 Hz-20 kHz) Rs=150 _ = =0 dB		-128 dB
		-92 dB . STEREO OUT (STEREO OUT off)
		-92 dB (96 dB S/N) STEREO OUT (STEREO fader , CH INPUT fader)
		-64 dB (68 dB S/N) STEREO OUTPUT (STEREO fader , CH INPUT fader)
		74 dB CH INPUT (CH1-24) STEREO OUT/OMNI (BUS) OUT
		74 dB CH INPUT (CH1-24) OMNI (AUX) OUT (fader)
		74 dB CH INPUT (CH1-24) CONTROL ROOM MONITOR OUT (STEREO)
Crosstalk (@ 1 kHz) =		-80 dB Input Channel(CH1-24)
		-80 dB
AD Input(1-16:A/B)		A (XLR-3-31) +48 V DC
		0/26 dB attenuation
		control 44 dB (-60 ~ -16), detented
		indicator HA 3 dB LED()
		indicator HA 20 dB LED()
		Insert I/O (pre AD converter)
		Insert on/off
		AD converter 24 (linear), 128 (fs=48 kHz)

AD (17-24)	control	44 dB (-34 ~ +10), detented	
	indicator	HA 3 dB LED() .	
	indicator	HA 20 dB LED() .	
	AD converter	24 (linear), 128 (fs=48 kHz)	
(2TR IN ANALOG 1, 2)	AD CONVERTER	24 (linear), 128 (fs=48 kHz)	
(SLOT 1-4)	가	(MY8, MY4)	
(2TR IN DIGITAL 1-3)	SRC	on/off(1:3 3:1)	
Input Channel CH1-56	Input Patch	-	
		/	
	Gate- 3	on/off	(key in):12 (1-12, 13-24, 25-36, 37-48, 49-56)/AUX1-8
		on/off	
	Comp- 4	(key in): /Stereo Link	
		Pre EQ/pre fader/post fader	
	Attenuator	-96.0 ~ +12.0 dB (0.1 dB)	
	EQ	4-band PEQ ⁵	
		on/off	
	Delay	0-43400	
	on/off	-	
	Fader	100 mm fader (INPUT/AUX1-8)	
	Aux Send	on/off	
		AUX1-8; pre fader/post fader	
		on/off	
		Pre fader/	
	Pan	127 (= 1-63, , = 1-63)	
	Surround pan	127 X 127	
	LFE	- , -96 dB ~ +10 dB (256)	
(Routing)	STEREO, BUS1-8, DIRECT OUT		
Direct Out	Pre EQ/pre fader/post fader		
	LCD		
	on/off		
TALKBACK	AD CONVERTER	24 (linear), 128	
	Talkback	/AD IN 1-16	
	on/off	-	
OSCILLATOR		0 ~ -96 dB (1 dB)	
	on/off	-	
		100 Hz, 1 kHz, 10 kHz, ,	
	(Routing)	BUS1-8, AUX1-8, STEREO L, R	
STEREO OUT	DA converter	24 (linear), 128	
OMNI OUT 1-8	Output Patch	SURROUND MONITOR, STEREO, BUS1-8, AUX1-8, DIRECT OUT 1-56, INSERT OUT (CH1-56, BUS1-8, AUX1-8, STEREO)	
	DA converter	24 (linear), 128	
CONTROL ROOM MONITOR OUT		STEREO, 2TR IN DIGITAL 1, 2TR IN DIGITAL 2, 2TR IN DIGITAL 3, 2TR I N ANALOG 1, 2TR IN ANALOG 2, ASSIGN 1, 2 (BUS 1-8/AUX 1-8)	
		on/off	
		on/off	
	DA converter	24 (linear), 128	

STUDIO MONITOR OUT		CONTROL ROOM, STEREO, AUX 7, AUX 8, TALKBACK
	DA converter	24 (linear), 128
2TR OUT DIGITAL 1-3		on/off
		16, 20, 24
	Output Patch	STEREO, BUS1-8, AUX 1-8, DIRECT OUT 1-56, INSERT OUT, CONTROL ROOM
(SLOT 1-4)	가	(MY8, MY4)
	Output Patch	SURROUND MONITOR, STEREO, BUS1-8, AUX1-8, DIRECT OUT 1-56, INSERT OUT (CH1-56, BUS1-8, AUX1-8, STEREO)
		on/off
		16/20/24
STEREO	Comp- 4	on/off
		Pre EQ/pre fader/post fader
	Attenuator	-96.0 ~ +12.0 dB (0.1 dB)
	EQ	4-band PEQ ⁵
		on/off
	on/off	-
	Fader	100 mm fader
		127 (=1-63, , =1-63)
	Delay	0-43400
		LCD
	on/off	
BUS1-8	Comp- 4	on/off
		Pre EQ/pre fader/post fader
	Attenuator	-96.0 ~ +12.0 dB (0.1 dB)
	EQ	4-band PEQ ⁵
		on/off
	on/off	-
	Fader	100 mm fader
		Delay	0-43400
	Bus to stereo	(- , -130 dB ~ 0 dB)
		on/off
	Pan:127 (=1-63, , =1-63)	
	LCD	
	on/off	
AUX1-8	Comp- 4	On/off
		Pre EQ/pre fader/post fader
	Attenuator	-96.0 ~ +12.0 dB (0.1 dB)
	EQ	4-band PEQ ⁵
		On/off
	on/off	-
	Fader	100 mm fader
	Delay	0-43400
	LCD	
	on/off	

SURROUND MONITOR		On/off
		On/off
		BUS1-8, SLOT 1-4
	Monitor to C-R	on/off
	Oscillator	/500-2 kHz/1 kHz/50 Hz
		5.1 5.1, 5.1 3-1, 5.1 ST, 3.1 3.1, 3.1 ST
		5
		ATT(-12.0 dB ~ 12 dB 0.1 dB), (0-30.0 msec 0.02 msec)
INTERNAL EFFECTS (EFFECT 1-4)		on/off
	in/out	8-in, 8-out(EFFECT1): effect . 2- , 2- (3-8): effect .
	Effect in	AUX1-8/INSERT OUT/Effect out
	Effect out	Input Patch/Effect in
	/	120 V, 60 Hz 200 W 220-240 V, 50/60 Hz 200 W
	(H x D x W)	239 x 697 x 667 mm (9,4" x 27,4" x 26,3")
		34 kg (75lbs)
		10-35 ° C (50-95 ° F)
		-20 - 60 ° C (-4 - 140 ° F)
		AC CD-ROM(Studio Manager)
		(MY8, MY4) PEAK METER BRIDGE:MB02R96 SIDE PANEL:SP02R96

1. @80 kHz 6 dB/
2. Hum Noise 6dB/ 12.7 kHz dB/ attenuation 20 kHz
3. 264 "Gate "
4. 264 "Comp "
5. 263 "EQ "

EQ

	LOW/HPF	L-MID	H-MID	HIGH /LPF
Q	0.1-10.0 (41) HPF	0.1-10.0 (41)		0.1-10.0 (41) LPF
F	21.2 Hz-20 kHz (1/12 oct step)			
G	_18 dB (0.1 dB) HPFon/off	_18 dB (0.1 dB)		_18 dB (0.1 dB) LPFon/off

Gate

Gate	(Threshold)	-54 dB ~ 0 dB (0.1 dB)	
	(Range)	-70 dB ~ 0 dB (1 dB)	
	(Attack)	0 ms-120 ms (1 ms)	
	(Hold)		0.02 ms-1.96 s (216) @ 48 kHz
			0.02 ms-2.13 s (216) @ 44.1 kHz
			0.01 ms-981 ms (216) @ 96 kHz
			0.01 ms-1.06 s (216) @ 88.2 kHz
	(Decay)		5 ms-42.3 s (160) @ 48 kHz
			6 ms-46.0 s (160) @ 44.1 kHz
			3 ms-21.1 s (160) @ 96 kHz
			3 ms-23.0 s (160) @ 88.2 kHz
	Ducking	(Threshold)	-54 dB - 0 dB (0.1 dB)
(Range)		-70 dB - 0 dB (1 dB)	
(Attack)		0 ms-120 ms (1 ms)	
(Hold)			0.02ms - 1.96s (216) @ 48 kHz
			0.02ms 2.13s (216) @ 44.1 kHz
			0.01 ms-981 ms (216) @ 96 kHz
			0.01ms-1.06s (216) @ 88.2 kHz
(Decay)			5 ms-42.3 s (160) @ 48 kHz
			6 ms-46.0 s (160) @ 44.1 kHz
			3 ms-21.1 s (160) @ 96 kHz
			3 ms-23.0 s (160) @ 88.2 kHz

Comp

Compressors	(Threshold)	-54 dB - 0 dB (0.1 dB)	
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, (16)	
	(Out gain)	0 dB - +18 dB (0.1 dB)	
	(Knee)	Hard, 1, 2, 3, 4, 5 (6)	
	(Attack)	0 ms-20 ms (1 ms)	
	(Release)		5 ms-42.3 s (160) @ 48 kHz
			6 ms-46.0 s (160) @ 44.1 kHz
			3 ms-21.1 s (160) @ 96 kHz
		3 ms-23.0 s (160) @ 88.2 kHz	
Expander	(Threshold)	-54 dB - 0 dB (0.1 dB)	
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, (16)	
	(Out gain)	0 dB - +18 dB (0.1 dB)	
	(Knee)	Hard, 1, 2, 3, 4, 5 (6)	
	(Attack)	0 ms-120 ms (1 ms)	
	(Release)		5 ms-42.3 s (160) @ 48 kHz
			6 ms-46.0 s (160) @ 44.1 kHz
			3 ms-21.1 s (160) @ 96 kHz
		3 ms-23.0 s (160) @ 88.2 kHz	

Compander H	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20 (15)
	(Out gain)	-18 dB - 0 dB (0.1 dB)
	(Width)	1 dB-90 dB (1 dB)
	(Attack)	0 ms-120 ms (1 ms)
	(Release)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		
Compander S	(Threshold)	-54 dB - 0 dB (0.1 dB)
	(x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20 (15)
	(Out gain)	-18 dB - 0 dB (0.1 dB)
	(Width)	1 dB-90 dB (1 dB)
	(Attack)	0 ms-120 ms (1 ms)
	(Release)	5 ms-42.3 s (160) @ 48 kHz
		6 ms-46.0 s (160) @ 44.1 kHz
		3 ms-21.1 s (160) @ 96 kHz
3 ms-23.0 s (160) @ 88.2 kHz		

Control

INPUT 1-16	+48 V	ON/OFF
	PAD	0/26 dB
	GAIN control	-16 ~ -60 dB
	INSERT	ON/OFF
INPUT 17-24	GAIN control	+10 ~ -34 dB
TALKBACK	TALKBACK LEVEL control	
STUDIO MONITOR OUT	STUDIO LEVEL control	
CONTROL ROOM MONITOR OUT	CONTROL ROOM LEVEL control	
PHONES	PHONES LEVEL control	

FADER MODE	AUX SELECT	DISPLAY AUX 1, AUX 2, AUX 3, AUX 4, AUX 5, AUX 6, AUX 7, AUX 8 (w/LED)
	FADER MODE	FADER, AUX (w/LED)
	ENCODER MODE	DISPLAY PAN, AUX, ASSIGN 1, ASSIGN 2 (w/LED)
DISPLAY CONTROL	DISPLAY ACCESS	AUTOMIX, DIO, SETUP, UTILITY, MIDI, REMOTE, METER, VIEW, PAIR, GROUP, INPUT PATCH, OUTPUT PATCH
	EFFECS/PLUG-INS	DISPLAY access, ,
		INTERNAL EFFECTS, PLUG-INS, CHANNEL INSERTS, 1, 2, 3, 4 control: 1, 2, 3, 4
		, F1, F2, F3, F4, LCD control

SELECTED CHANNEL	ROUTING	DISPLAY
		1, 2, 3, 4, 5, 6, 7, 8, STEREO, DIRECT, FOLLOW PAN (w/LED)
	DISPLAY ACCESS	PHASE/INSERT, DELAY
	DYNAMICS	DISPLAY, GATE /COMP
		GATE ON, COMP ON (w/LED)
		control x 5
	PAN/SURROUND	DISPLAY
		L, R, LINK, GRAB, EFFECT (w/LED)
		Pan control
		(control)
	EQUALIZER	DISPLAY
		EQ ON (w/LED)
GAIN controlLOW, LOW-MID, HIGH-MID, HIGH		
FREQUENCY/Q controlLOW, LOW-MID, HIGH-MID, HIGH control(w/SW)		
MONITOR	MONITOR	DISPLAY
	STUDIO	CONTROL ROOM, STEREO, AUX 7, AUX 8 (w/LED)
	SOLO	CLEAR
	CONTROL ROOM	2TR D1, 2TR D2, 2TR D3, 2TR A1, 2TR A2, STEREO, ASSIGN 1, ASSIGN 2 (w/LED)
	SURROUND	BUS, SLOT (w/LED)
		SURROUND MONITOR LEVEL control
		TALKBACK, DIMMER (w/LED)
	CONTROL ROOM LEVEL control	
SCENE MEMORY USER DEFINED KEYS	SCENE MEMORY	DISPLAY
		, , STORE, RECALL
	USER DEFINED KEYS	DISPLAY
		1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 (w/LED)
MACHINE CONTROL	LOCATOR	DISPLAY
		LOCATE MEMORY:1, 2, 3, 4, 5, 6, 7, 8, SET (w/LED)
	TRANSPORT CONTROL	REW, FF, STOP, PLAY, REC, SHUTTLE, SCRUB (w/LED)
CHANNEL STRIP	Encoder	x 24 (1-24)
		AUTO x 24 (1-24), SEL x 24 (1-24), SOLO x 24 (1-24), ON x 24 (1-24)
	Fader(w/ touch sense)	x 24 (1-24)
MASTER	LAYER	1-24, 25-48, MASTER, REMOTE (w/LED)
	STEREO	AUTO, SEL, ON (w/LED)
		Fader(w/touch sense) x 1
DATA ENTRY		INC, DEC, , , , ENTER
	Encoder	

Indicator

PEAK LED	x24	INPUT 1-24
SIGNAL LED	x24	INPUT 1-24

DISPLAY CONTROL	DISPLAY	320 x 240 LCD (w/contrast control potentiometer)
SELECTED CHANNEL	DYNAMICS	GATE, COMP LEDs x2
	PAN/SURROUND	Pan LEDs x10
	EQUALIZER	FREQUENCY, Q LEDs 2 x 4
		dB, Hz, kHz 3 x 4
MONITOR	SOLO	LED x1
SCENE MEMORY	Scene memory	2 LED x1

Effect (EFFECT 1-4)		52 (EFFECT 2-4: 44)
		76
Compressor		36
		92
Gate		4
		124
EQ		40
		160
Channel		2
		127
Surround Monitor		1
		32
Input Patch		1
		32
Output Patch		1
		32
Bus to Stereo		1
		32

	PAD	GAIN		For Use With Nominal				Connector
					1			
INPUT A/B 1-16	0	-60 dB	3k	50-600 Mics & 600 Lines	-70 dB (0,245V)	-60 dB (0,775V)	-46 dB (3,88 mV)	AXLR 3-31 () ²
					-26 dB (38,8V)	-16 dB (0,123 V)	-2 dB (616V)		B (TRS)( )^{3}
	26	-16 dB			0 dB (775 mV)	+10 dB (2,45 V)	+24 dB (12,28 V)	
INPUT 17-24	-	-34 dB	4K	600 Lines	-44 dB (4,89 mV)	-34 dB (15,5 mV)	-20 dB (77,5 mV)	(TRS)() ³
		+10 dB			0 dB (775 mV)	+10 dB (2,45 V)	+24 dB (12,28 V)	
INSERT IN 1-16	-		10K	600 Lines	-6 dB (388V)	+4 dB (1,23 V)	+18 dB (6,16 V)	(TRS) ⁴
2TR IN ANALOG 1 [L, R]	-		10K	600 Lines	+4 dB (1,23 V)	+4 dB (1,23 V)	+18 dB (6,16 V)	(TRS)() ³
2TR IN ANALOG 2 [L, R]	-		10K	600 Lines	-10 dBV (0,316 V)	-10 dBV (0,316 V)	+4 dBV (1,58 V)	()

1. fader control () +4 dB (1.23 V) (fader control)
 2. XLR 3-31 connector (1=GND, 2=HOT, 3=COLD).
 3. (Tip=HOT, Ring=COLD, Sleeve=GND).
 4. :Tip=OUT, Ring=IN, Sleeve=GND
- dB, 0 Db 0.775 Vrms
 2TR IN ANALOG 2, 0 dBV 1.00 Vrms
 AD CONVERTER(INSERT I/O 1-16) 24- (linear), 128-
 +48 V DC() CH INPUT(1-16) XLR connector

		For Use With Nominal	GAIN SW ¹			Connector	
STEREO OUT [L, R]	600	10k Lines	-	-10 dBV (0,316 V)	+4 dBV (1,58 V)	()	
	150	600 Lines	-	+4 dB (1,23 V)	+18 dB (6,16 V)	XLR 3-32 () ²	
STUDIO MONITOR OUT [L, R]	150	10k Lines	-	+4 dB (1,23 V)	+18 dB (6,16 V)	(TRS)() ³	
C-R MONITOR OUT [L, R]	150	10k Lines	-	+4 dB (1,23 V)	+18 dB (6,16 V)	(TRS)() ³	
OMNI OUT 1-8	150	10k Lines		+18 dB ()	+4 dB (1,23 V)	+18 dB (6,16 V)	(TRS)() ³
				+4 dB	-10 dB (0,245 V)	+4 dB (1,23 V)	
INSERT OUT 1-16	600	10k Lines	-	+4 dB (1,23 V)	+18 dB (6,16 V)	(TRS) ⁴	
PHONES	100	8	-	4 mW	25 mW	Stereo (TRS) () ⁵	
		40	-	12 mW	75 mW		

1. OMNI OUT
2. XLR 3-32 connector (1=GND, 2=HOT, 3=COLD).
3. (Tip=HOT, Ring=COLD, Sleeve=GND).
4. : Tip=OUT, Ring=IN, Sleeve=GND
5. PHONES stereo (Tip=LEFT, Ring=RIGHT, Sleeve=GND).

STEREO OUT [L, R], 0 Dbv 1.00 Vrms
 , dB, 0 dB 0.775 Vrms
 DA converter(INSERT OUT 1-16) 24- , 128-

				Connector	
2TR IN DIGITAL	1	AES/EBU	24-	RS422	XLR 3-31 () ¹
	2	IEC-60958	24-	0.5 Vpp/75	RCA PIN
	3	IEC-60958	24-	0.5 Vpp/75	RCA PIN
CASCADE IN		-	-	RS422	D-SUB Half Pitch Connector 68P (Female)

1. XLR 3-31 connector (1=GND, 2=HOT, 3=COLD).

				Connector	
2TR OUT DIGITAL	1	AES/EBU ¹ 가	24- ²	RS422	XLR-3-32 type (Balanced) ³
	2	IEC-60958 ⁴	24- ²	0.5V pp/75	RCA PIN
	3	IEC-60958 ⁴	24- ²	0.5V pp/75	RCA PIN
CASCADE OUT		-	-	RS422	D-SUB Half Pitch Connector 68P (Female)

1. 2TR OUT DIGITAL 1

:2

:

:

2. : 16/20/24

3. XLR 3-32 connector

(1=GND, 2=HOT, 3=COLD).

4. 2TR OUT DIGITAL 2, 3

: 2

: 2 PCM encoder/decoder

:

:

: Level II (1000 ppm)

:

I/O Slot (1-4)

I/O SLOT

가 SLOT

1

					가
MY8-AT	ADAT	YES	8 IN	8 OUT (output patch) ¹	4
MY8-TD	TASCAM	YES	8 IN	8 OUT (output patch) ¹	4
MY8-AE	AES/EBU	YES	8 IN	8 OUT (output patch) ¹	4
MY4-AD	ANALOG IN	YES	4 IN	-	4
MY8-AD	ANALOG IN	YES	8 IN	-	4
MY4-DA	ANALOG OUT	YES	-	4 OUT (output patch) ¹	4
MY8-AD24	ANALOG IN	YES	8 IN	-	4
MY8-AD96	ANALOG IN	YES	8 IN	-	4
MY8-DA96	ANALOG OUT	YES	-	8 OUT (output patch) ¹	4
MY8-AE96S	AES/EBU	YES	8 IN	8 OUT (output patch) ¹	2
MY8-AE96	AES/EBU	YES	8 IN	8 OUT (output patch) ¹	4

1. I/O

Control I/O

I/O				Connector
TO HOST	Serial	-	RS422	Mini DIN Connector 8P
	USB	USB 1.1	0 V-3.3 V	B type USB connector
MIDI	IN	MIDI	-	DIN Connector 5P
	OUT	MIDI	-	DIN Connector 5P
	THRU	MIDI	-	DIN Connector 5P
TIME CODE IN	MTC	MIDI	-	DIN Connector 5P
	SMPTE	SMPTE	Nominal -10 dB/10k_	XLR 3-31 () ¹
WORD CLOCK	IN	-	TTL/75 _ (ON/OFF) ²	BNC Connector
	OUT	-	TTL/75 _	BNC Connector
CONTROL		-	-	D-SUB Connector 25P (Female)
METER		-	RS422	D-SUB Connector 15P (Female)

1. XLR 3-31 connector (1=GND, 2=HOT, 3=COLD).
 2.

Connector

CASCADE IN

1	GND	35	GND
2	INPUT 1-2(+)	36	INPUT 1-2(-)
3	INPUT 3-4(+)	37	INPUT 3-4(-)
4	INPUT 5-6(+)	38	INPUT 5-6(-)
5	INPUT 7-8(+)	39	INPUT 7-8(-)
6	INPUT 9-10(+)	40	INPUT 9-10(-)
7	INPUT 11-12(+)	41	INPUT 11-12(-)
8	INPUT 13-14(+)	42	INPUT 13-14(-)
9	INPUT 15-16(+)	43	INPUT 15-16(-)
10	DTR IN(+)	44	DTR IN(-)
11	RTS OUT(+)	45	RTS OUT(-)
12	GND	46	GND
13	WORD CLOCK IN(+)	47	WORD CLOCK IN(-)
14	WORD CLOCK OUT(+)	48	WORD CLOCK OUT(-)
15	CONTROL IN(+)	49	CONTROL IN(-)
16	CONTROL OUT(+)	50	CONTROL OUT(-)
17	GND	51	ID6 IN
18	GND	52	ID6 OUT
19	INPUT 17-18(+)	53	INPUT 17-18(-)
20	INPUT 19-20(+)	54	INPUT 19-20(-)
21	INPUT 21-22(+)	55	INPUT 21-22(-)
22	INPUT 23-24(+)	56	INPUT 23-24(-)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 IN	61	ID1 IN
28	ID2 IN	62	ID3 IN
29	ID4 IN	63	ID5 IN
30	ID0 OUT	64	ID1 OUT
31	ID2 OUT	65	ID3 OUT
32	ID4 OUT	66	ID5 OUT
33	MSB IN	67	2CH/LINE IN
34	FG	68	FG

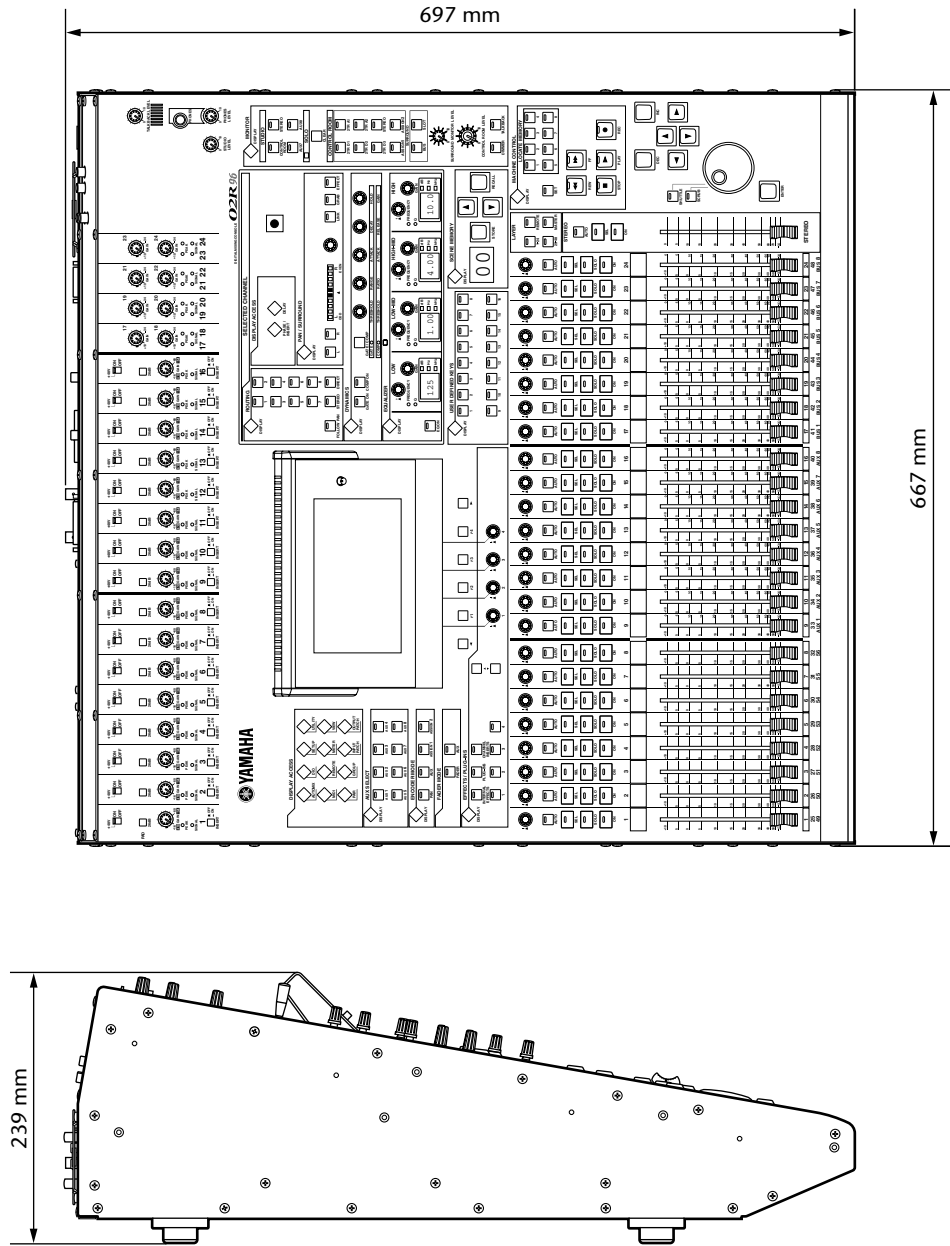
CASCADE OUT

1	GND	35	GND
2	OUTPUT 1-2(+)	36	OUTPUT 1-2(-)
3	OUTPUT 3-4(+)	37	OUTPUT 3-4(-)
4	OUTPUT 5-6(+)	38	OUTPUT 5-6(-)
5	OUTPUT 7-8(+)	39	OUTPUT 7-8(-)
6	OUTPUT 9-10(+)	40	OUTPUT 9-10(-)
7	OUTPUT 11-12(+)	41	OUTPUT 11-12(-)
8	OUTPUT 13-14(+)	42	OUTPUT 13-14(-)
9	OUTPUT 15-16(+)	43	OUTPUT 15-16(-)
10	DTR OUT(+)	44	DTR OUT(-)
11	RTS IN(+)	45	RTS IN(-)
12	GND	46	GND
13	WORD CLOCK OUT(+)	47	WORD CLOCK OUT(-)
14	WORD CLOCK IN(+)	48	WORD CLOCK IN(-)
15	CONTROL OUT(+)	49	CONTROL OUT(-)
16	CONTROL IN(+)	50	CONTROL IN(-)
17	GND	51	ID6 OUT
18	GND	52	ID6 IN
19	OUTPUT 17-18(+)	53	OUTPUT 17-18(-)
20	OUTPUT 19-20(+)	54	OUTPUT 19-20(-)
21	OUTPUT 21-22(+)	55	OUTPUT 21-22(-)
22	OUTPUT 23-24(+)	56	OUTPUT 23-24(-)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 OUT	61	ID1 OUT
28	ID2 OUT	62	ID3 OUT
29	ID4 OUT	63	ID5 OUT
30	ID0 IN	64	ID1 IN
31	ID2 IN	65	ID3 IN
32	ID4 IN	66	ID5 IN
33	MSB OUT	67	2CH/LINE OUT
34	FG	68	FG

CONTROL

1	GPO0	14	GPO1
2	GPO2	15	GPO3
3	GPO4	16	GPO5
4	GPO6	17	GPO7
5	GND	18	GND
6	GND	19	GND
7	GND	20	GND
8	GND	21	+5V
9	+5V	22	GPIO
10	GPIO1	23	N.C.
11	N.C.	24	SOLO ¹
12	SMODE ¹	25	MAS/SLV ¹
13	SPARE ¹		

1. 02R SOLO control .



EN55103-1 EN55103-2 /
 : 70 A
 : E1, E2, E3 E4

C: MIDI

Scene Memory Program Change Table

Program Change	Scene	Scene
1	01	
2	02	
3	03	
4	04	
5	05	
6	06	
7	07	
8	08	
9	09	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	
26	26	
27	27	
28	28	
29	29	
30	30	
31	31	
32	32	
33	33	
34	34	
35	35	
36	36	
37	37	
38	38	
39	39	
40	40	
41	41	
42	42	
43	43	

Program Change	Scene	Scene
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	
61	61	
62	62	
63	63	
64	64	
65	65	
66	66	
67	67	
68	68	
69	69	
70	70	
71	71	
72	72	
73	73	
74	74	
75	75	
76	76	
77	77	
78	78	
79	79	
80	80	
81	81	
82	82	
83	83	
84	84	
85	85	
86	86	

Program Change	Scene	Scene
87	87	
88	88	
89	89	
90	90	
91	91	
92	92	
93	93	
94	94	
95	95	
96	96	
97	97	
98	98	
99	99	
100	00	
101	-	
102	-	
103	-	
104	-	
105	-	
106	-	
107	-	
108	-	
109	-	
110	-	
111	-	
112	-	
113	-	
114	-	
115	-	
116	-	
117	-	
118	-	
119	-	
120	-	
121	-	
122	-	
123	-	
124	-	
125	-	
126	-	
127	-	
128	-	

Control Change Table

#			
0	NO ASSIGN		
1	FADER H	CHANNEL	INPUT1
2	FADER H	CHANNEL	INPUT2
3	FADER H	CHANNEL	INPUT3
4	FADER H	CHANNEL	INPUT4
5	FADER H	CHANNEL	INPUT5
6	FADER H	CHANNEL	INPUT6
7	FADER H	CHANNEL	INPUT7
8	FADER H	CHANNEL	INPUT8
9	FADER H	CHANNEL	INPUT9
10	FADER H	CHANNEL	INPUT10
11	FADER H	CHANNEL	INPUT11
12	FADER H	CHANNEL	INPUT12
13	FADER H	CHANNEL	INPUT13
14	FADER H	CHANNEL	INPUT14
15	FADER H	CHANNEL	INPUT15
16	FADER H	CHANNEL	INPUT16
17	FADER H	CHANNEL	INPUT17
18	FADER H	CHANNEL	INPUT18
19	FADER H	CHANNEL	INPUT19
20	FADER H	CHANNEL	INPUT20
21	FADER H	CHANNEL	INPUT21
22	FADER H	CHANNEL	INPUT22
23	FADER H	CHANNEL	INPUT23
24	FADER H	CHANNEL	INPUT24
25	FADER H	CHANNEL	INPUT25
26	FADER H	CHANNEL	INPUT26
27	FADER H	CHANNEL	INPUT27
28	FADER H	CHANNEL	INPUT28
29	FADER H	CHANNEL	INPUT29
30	FADER H	CHANNEL	INPUT30
31	FADER H	CHANNEL	INPUT31
32	NO ASSIGN		
33	FADER L	CHANNEL	INPUT1
34	FADER L	CHANNEL	INPUT2
35	FADER L	CHANNEL	INPUT3
36	FADER L	CHANNEL	INPUT4
37	FADER L	CHANNEL	INPUT5
38	FADER L	CHANNEL	INPUT6
39	FADER L	CHANNEL	INPUT7
40	FADER L	CHANNEL	INPUT8
41	FADER L	CHANNEL	INPUT9
42	FADER L	CHANNEL	INPUT10
43	FADER L	CHANNEL	INPUT11
44	FADER L	CHANNEL	INPUT12
45	FADER L	CHANNEL	INPUT13
46	FADER L	CHANNEL	INPUT14
47	FADER L	CHANNEL	INPUT15
48	FADER L	CHANNEL	INPUT16
49	FADER L	CHANNEL	INPUT17
50	FADER L	CHANNEL	INPUT18
51	FADER L	CHANNEL	INPUT19
52	FADER L	CHANNEL	INPUT20
53	FADER L	CHANNEL	INPUT21
54	FADER L	CHANNEL	INPUT22
55	FADER L	CHANNEL	INPUT23
56	FADER L	CHANNEL	INPUT24
57	FADER L	CHANNEL	INPUT25
58	FADER L	CHANNEL	INPUT26
59	FADER L	CHANNEL	INPUT27

#			
60	FADER L	CHANNEL	INPUT28
61	FADER L	CHANNEL	INPUT29
62	FADER L	CHANNEL	INPUT30
63	FADER L	CHANNEL	INPUT31
64	ON	CHANNEL	INPUT1
65	ON	CHANNEL	INPUT2
66	ON	CHANNEL	INPUT3
67	ON	CHANNEL	INPUT4
68	ON	CHANNEL	INPUT5
69	ON	CHANNEL	INPUT6
70	ON	CHANNEL	INPUT7
71	ON	CHANNEL	INPUT8
72	ON	CHANNEL	INPUT9
73	ON	CHANNEL	INPUT10
74	ON	CHANNEL	INPUT11
75	ON	CHANNEL	INPUT12
76	ON	CHANNEL	INPUT13
77	ON	CHANNEL	INPUT14
78	ON	CHANNEL	INPUT15
79	ON	CHANNEL	INPUT16
80	ON	CHANNEL	INPUT17
81	ON	CHANNEL	INPUT18
82	ON	CHANNEL	INPUT19
83	ON	CHANNEL	INPUT20
84	ON	CHANNEL	INPUT21
85	ON	CHANNEL	INPUT22
86	ON	CHANNEL	INPUT23
87	ON	CHANNEL	INPUT24
88	ON	CHANNEL	INPUT25
89	PAN	CHANNEL	INPUT1
90	PAN	CHANNEL	INPUT2
91	PAN	CHANNEL	INPUT3
92	PAN	CHANNEL	INPUT4
93	PAN	CHANNEL	INPUT5
94	PAN	CHANNEL	INPUT6
95	PAN	CHANNEL	INPUT7
96	PAN	CHANNEL	INPUT8
97	PAN	CHANNEL	INPUT9
98	PAN	CHANNEL	INPUT10
99	PAN	CHANNEL	INPUT11
100	PAN	CHANNEL	INPUT12
101	PAN	CHANNEL	INPUT13
102	PAN	CHANNEL	INPUT14
103	PAN	CHANNEL	INPUT15
104	PAN	CHANNEL	INPUT16
105	PAN	CHANNEL	INPUT17
106	PAN	CHANNEL	INPUT18
107	PAN	CHANNEL	INPUT19
108	PAN	CHANNEL	INPUT20
109	PAN	CHANNEL	INPUT21
110	PAN	CHANNEL	INPUT22
111	PAN	CHANNEL	INPUT23
112	PAN	CHANNEL	INPUT24
113	PAN	CHANNEL	INPUT25
114	PAN	CHANNEL	INPUT1
115	PAN	CHANNEL	INPUT2
116	PAN	CHANNEL	INPUT3
117	PAN	CHANNEL	INPUT4
118	PAN	CHANNEL	INPUT5
119	PAN	CHANNEL	INPUT6

MIDI

1.

	rx/tx	
8n NOTE OFF	rx	effect control
9n NOTE ON	rx	effect control
Bn CONTROL CHANGE	rx/tx	control
Cn PROGRAM CHANGE	rx/tx	Scene Memory

2.

	rx/tx	
F1 MIDI TIME CODE QUARTER FRAME	rx	TIME REFERENCE가 MIDI CLOCK
F2 SONG POSITION POINTER	rx	TIME REFERENCE가 MIDI CLOCK

3.

	rx/tx	
F8 TIMING CLOCK	rx	MIDI
FA START	rx*	Automix ()
FB CONTINUE	rx*	Automix ()
FC STOP	rx*	Automix
FE ACTIVE SENSING	rx	MIDI
FF RESET	rx	

Automix TIME REFERENCE MIDI CLOCK

4.

4.1

	rx/tx	
F0 7F dd 06 MMC COMMAND	tx	MMC (MMC)
F0 7F dd 07 MMC RESPONSE	rx	MMC (MMC)
F0 7F dd 01 MIDI TIME CODE	rx	TIME REFERENCE가 MTC

4.2

4.2.1

	rx/tx	
F0 43 0n 7E BULK DUMP DATA	rx/tx	BULK DUMP DATA
F0 43 2n 7E BULK DUMP REQUEST	rx/tx	BULK DUMP REQUEST

02R96

DATA NAME	tx/rx	
'm'	tx/rx	Scene Memory
'S'	tx/rx	Setup
'a'	tx/rx	Automix
'R'	tx/rx	Input Patch
'O'	tx/rx	Output Patch
'H'	tx/rx	Channel
'G'	tx/rx	Gate
'Y'	tx/rx	Compressor
'Q'	tx/rx	EQ
'E'	tx/rx	Effect
'J'	tx/rx	Bus to Stereo
'K'	tx/rx	Surround Monitor
'P'	tx/rx	Program Change Table
'C'	tx/rx	Control Change Table
'L'	tx/rx	
'I'	tx/rx	
'V'	tx/rx	
'N'	tx/rx	effect

4.2.2 PARAMETER CHANGE

	rx/tx	
F0 43 1n 3E 0B PARAMETER CHANGE	rx/tx	02R96 parameter change
F0 43 3n 3E 0B PARAMETER REQUEST	rx/tx	02R96
F0 43 1n 3E 7F PARAMETER CHANGE	rx/tx	Change Parameter
F0 43 3n 3E 7F PARAMETER REQUEST	rx/tx	

02R96 parameter change

	tx/rx	
1	tx/rx	
2	tx/rx	
3	tx/rx	
4	tx/rx	
16	tx/rx	(, ,)
17	rx	()
18	rx	()
32	rx	
33	tx/rx	
34	tx/rx	

** tx 02R96

02R96

1. OFF(8n)

[Rx CH]가 effect
 STATUS 1000nnnn 8n Note off message
 DATA 0nnnnnnn nn Note number
 0vvvvvvv vv Velocity (ignored)

2. ON(9n)

[Rx CH]가 effect
 STATUS 1001nnnn 9n Note on message
 DATA 0nnnnnnn nn Note number
 0vvvvvvv vv Velocity (1-127:on, 0:off)

3. CONTROL CHANGE(Bn)

[Control Change Rx]가 [Rx CH]가
 [OMNI]가 , [Control Change ECHO]가 , 가MIDI OUT
 . [TABLE] , [Control assign table] 가 CONTROL CHANGE ASSIGN PARAMETER LIST . [NRPN] , NRPN (62h, 63h) DATA ENTRY (06h, 26h) 가 CONTROL CHANGE ASSIGN PARAMETER LIST
 [TABLE] , [Control Change TX]가 [Control assign table] 가 [Tx CH] CONTROL CHANGE ASSIGN PARAMETER LIST
 [NRPN] , [Control Change TX]가 [Tx CH] 가 , NRPN (62h, 63h) DATA ENTRY (06h, 26h) 가 CONTROL CHANGE ASSIGN PARAMETER LIST


```
[
d[0~6]:actual data
b[0~7]:bulk data
b[0] = 0;
for( I=0; I<7; I++){
  if( d[I]&0x80){
    b[0] |= 1<<(6-I);
  }
  b[I+1] = d[I]&0x7F;
}
]
[
d[0~6]:actual data
b[0~7]:bulk data
for( I=0; I<7; I++){
  b[0] <= 1;
  d[I] = b[I+1]+(0x80&b[0]);
}
]
```

12.2.1 Scene Memory

02R96	Scene Memory		
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01101101	6D	'm'
	0mmmmmm	mh	m=0-99, 256(Scene0-99, EDIT BUFFER)
	mm		
	0mmmmmm	ml	Receive is effective 1-99, 256
	mm		
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	Scene data of block[mm]
	:	:	
	0ddddd	de	ee=(Invert('L'+...+de)+1)&0x7F
CHECK SUM	0eeeeeee	ee	
EOX	11110111	F7	End of exclusive

12.2.2 Scene Memory

DATA NAME	256	가	가 ()
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01101101	6D	'm'
	0mmmmmm	mh	m=0-99, 256(Scene0-99, EDIT BUFFER)
	mm		
	0mmmmmm	ml	
	mm		
EOX	11110111	F7	End of exclusive

12.2.3

02R96			Control Change Table	Program Change Table
STATUS	11110000	F0	System exclusive message	
ID No.	01000011	43	Manufacture's ID number (YAMAHA)	
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)	
FORMAT No.	01111110	7E	Universal bulk dump	
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl	
COUNT LOW	0ccccccc	cl		
	01001100	4C	'L'	
	01001101	4D	'M'	
	00100000	20	''	
	00100000	20	''	
	00111000	38	'8'	
	01000011	43	'C'	
	00110101	35	'5'	
	00110100	34	'4'	
DATA NAME	01010011	53	'S'	
	00000010	02		
	00000000	00	No.256 = Current	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)	
	0bbbbbbb	bb	current block number(0-total block number)	
DATA	0ddddd	ds	Setup memory data	
	:	:		
	0ddddd	de	ee=(Invert('L'+...+de)+1)&0x7F	
CHECK SUM	0eeeeeee	ee		
EOX	11110111	F7	End of exclusive	

12.2.4

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010011	53	'S'
	00000010	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.5

DATA NAME	가	가 ()	
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01001100	4C	'L'
	00000000	00	
	0bbbbbbb	bb	b=0-3(bank no.1-4)
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	User define layer
	:	:	
	0ddddd	de	

CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.6

DATA NAME
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 '5'
 00110100 34 '4'
 DATA NAME 01001100 4C 'L'
 00000000 00
 0bbbbbbb bb b=0-3(bank no.1-4)
 EOX 11110111 F7 End of exclusive

12.2.7

DATA NAME 가 ()
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 '5'
 00110100 34 '4'
 DATA NAME 01001001 49 'I'
 00000000 00
 0bbbbbbb bb b=0-7(bank no.1-8)
 BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)
 0bbbbbbb bb current block number(0-total block number)
 DATA 0ddddddd ds User define plug-in data
 :
 0ddddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.8

DATA NAME
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 '5'
 00110100 34 '4'
 DATA NAME 01001001 49 'I'
 00000000 00
 0bbbbbbb bb b=0-7(bank no.1-8)
 EOX 11110111 F7 End of exclusive

12.2.9

DATA NAME 가 ()
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH cccccccc ch data count = ch * 128 + cl
 COUNT LOW cccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 '5'
 00110100 34 '4'
 DATA NAME 01010110 56 'V'
 00000000 00
 0bbbbbbb bb b=0-3(bank no.A-D)
 BLOCK INFO. 0ttttttt tt total block number(minimum number is 0)
 0bbbbbbb bb current block number(0-total block number)
 DATA 0ddddddd ds User define key data
 :
 0ddddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.10

DATA NAME
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 '5'
 00110100 34 '4'
 DATA NAME 01010110 56 'V'
 BANK No. 00000000 00
 0bbbbbbb bb b=0-3(bank no.A-D)
 EOX 11110111 F7 End of exclusive

12.2.11 Control Change Table

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	00000011	ch	data count = ch * 128 + cl
COUNT LOW	00010010	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01000011	43	'C'
	00000000	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Control change table data
	:	:	(342/7)*8+(342%7)+1=391bytes? unfixed
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.12 Control Change Table

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01000011	43	'C'
	00000000	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.13 Program Change Table

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010000	50	'P'
	00000000	02	
	00000000	00	No.256 = Current
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	Program change table data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.14 Program Change Table

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010000	50	'P'
	00000000	02	
	00000000	00	No.256 = Current
EOX	11110111	F7	End of exclusive

12.2.15 EQ

DATA NAME			
	0:Library no.1 - 199:Library no.200, 256:CH1 - 311:CH56, 384:BUS1 - 391:BUS8, 512:AUX1 - 519:AUX8, 768:STEREO L - 769:STEREO R		
	256		
	02R96		(40-199, 256-)
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010001	51	'Q'
LIB. No. H	0bbbbbbb	bb	0-199(EQ Library no.1-200), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddddd	ds	EQ Library data
	:	:	
	0ddddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.16 EQ

DATA NAME			(
)
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010001	51	'Q'
LIB. No. H	0bbbbbbb	bb	0-199(EQ Library no.1-200), 256-(channel current data)
LIB. No. L	0bbbbbbb	bb	
EOX	11110111	F7	End of exclusive

12.2.17 Compressor

DATA NAME

0:Library no.1 - 199:Library no.200, 256:CH1 - 311:CH56, 384:BUS1 - 391:BUS8, 512:AUX1 - 519:AUX8, 768:STEREO L - 769:STEREO R
256
02R96 , (36-127, 256-)

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110101 35 'S'
00110100 34 '4'

DATA NAME 01011001 59 'Y'
LIB. No. H 0bbbbbbb bb 0-127(COMP Library no.1-128),
256-(channel current data)

LIB. No. L 0bbbbbbb bb
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddddd ds COMP Library data
:
:
0ddddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

12.2.18 Compressor

DATA NAME

.().

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110101 35 'S'
00110100 34 '4'

DATA NAME 01011001 59 'Y'
LIB. No. H 0bbbbbbb bb 0-127(COMP Library no.1-128),
256-(channel current data)

LIB. No. L 0bbbbbbb bb
EOX 11110111 F7 End of exclusive

12.2.19 Gate

DATA NAME

0:Library no.1 - 127:Library no.128, 256:CH1 -311:CH96
256
02R96 , (4-127, 256-)

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI
Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110101 35 'S'
00110100 34 '4'

DATA NAME 01000111 47 'G'
LIB. No. H 0bbbbbbb bb 0-127(GATE Library no.1-128),
256-351(channel current data)

LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddddd ds GATE Library data
:
:
0ddddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

12.2.20 Gate

DATA NAME

.().

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110101 35 'S'
00110100 34 '4'

DATA NAME 01000111 47 'G'
LIB. No. H 0bbbbbbb bb 0-127(GATE Library no.1-128),
256-351(channel current data)

LIB. No. L 0bbbbbbb bl
EOX 11110111 F7 End of exclusive

12.2.21 Effect

DATA NAME

0:Library no.1 - 127:Library no.128, 256:EFFECT1 -259:EFFEC8
256-259
02R96 , (52-127,
256-259)

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl

01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110101 35 'S'
00110100 34 '4'

DATA NAME 01000100 45 'E'
LIB. No. H 0bbbbbbb bb 0-127(Effect Library no.1-128),
256-259(Effect1-4 current)

LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)

DATA 0ddddddd ds Effect Library data
:
:
0ddddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

12.2.22 Effect

DATA NAME			
.().			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01000100	45	'E'
LIB. No. H	0bbbbbbb	bb	0-127(Effect Library no.1-128), 256-259(Effect1-4 current)
LIB. No. L	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.25 Channel

DATA NAME			
0:Library no.0 - 128:Library no.128, 256:CH1 - 311:CH56, 384:BUS1 - 391:BUS8, 512:AUX1 - 519:AUX8, 768:STEREO L - 769:STEREO R 256 02R96 , (2-128, 256-)			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01001000	48	'H'
LIB. No. H	0bbbbbbb	bb	0-128(Channel Library no.0-128), 256-(current)
LIB. No. L	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	channel Library data
	:	:	
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.26 Channel

DATA NAME			
.().			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110001	31	'1'
	00110010	32	'2'
DATA NAME	01001000	48	'H'
LIB. No. H	0bbbbbbb	bb	0-128(Channel Library no.0-128), 256-(current)
LIB. No. L	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.27 Input Patch

DATA NAME			
0:Library no.0 - 32:Library no.32, 256: Input Patch 02R96 , (1-32, 256)			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0000nnnn	0n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
COUNT HIGH	0ccccccc	ch	data count = ch * 128 + cl
COUNT LOW	0ccccccc	cl	
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010010	52	'R'
	0bbbbbbb	bb	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
BLOCK INFO.	0ttttttt	tt	total block number(minimum number is 0)
	0bbbbbbb	bb	current block number(0-total block number)
DATA	0ddddd	ds	Input Patch Library data
	:	:	
	0ddddd	de	
CHECK SUM	0eeeeeee	ee	ee=(Invert('L'+...+de)+1)&0x7F
EOX	11110111	F7	End of exclusive

12.2.28 Input Patch

DATA NAME			
0:Library no.0 - 32:Library no.32, 256: Input Patch			
STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0010nnnn	2n	n=0-15 (Device number=MIDI Channel)
FORMAT No.	01111110	7E	Universal bulk dump
	01001100	4C	'L'
	01001101	4D	'M'
	00100000	20	''
	00100000	20	''
	00111000	38	'8'
	01000011	43	'C'
	00110101	35	'5'
	00110100	34	'4'
DATA NAME	01010010	52	'R'
	0bbbbbbb	bb	0-32(Library no.0-32), 256(Current data)
	0bbbbbbb	bl	
EOX	11110111	F7	End of exclusive

12.2.29 Output Patch

DATA NAME

```

0:Library no.0 - 32:Library no.32, 256:      Output Patch
02R96          ,                          (1-32, 256)
STATUS        11110000 F0 System exclusive message
ID No.        01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS    0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.    01111110 7E Universal bulk dump
COUNT HIGH   0ccccccc ch data count = ch * 128 + cl
COUNT LOW    0ccccccc cl
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110101 35 '5'
              00110100 34 '4'
DATA NAME     01001111 4F 'O'
              0bbbbbbb bb 0-32(Library no.0-32), 256(Current
              00100000 bl data)
BLOCK INFO.   0ttttttt tt total block number(minimum number
              0bbbbbbb bb current block number(0-total block
              0ds      ds Input Patch Library data
              :      :
              0ds      de
CHECK SUM     0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX          11110111 F7 End of exclusive

```

12.2.30 Output Patch

DATA NAME

```

0:Library no.0 - 32:Library no.32, 256:      Output Patch
02R96          ,                          (1-32, 256)
STATUS        11110000 F0 System exclusive message
ID No.        01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS    0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.    01111110 7E Universal bulk dump
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110101 35 '5'
              00110100 34 '4'
DATA NAME     01001111 4F 'O'
              0bbbbbbb bb 0-32(Library no.0-32), 256(Current
              0bbbbbbb bl data)
EOX          11110111 F7 End of exclusive

```

12.2.31 Bus to Stereo

DATA NAME

```

0:Library no.0 - 32:Library no.32, 256:
02R96          ,
STATUS        11110000 F0 System exclusive message
ID No.        01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS    0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.    01111110 7E Universal bulk dump
COUNT HIGH   0ccccccc ch data count = ch * 128 + cl
COUNT LOW    0ccccccc cl
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110101 35 '5'
              00110100 34 '4'
DATA NAME     01001010 4A 'J'
              0bbbbbbb bb 0-32(Library no.0-32), 256(Current
              data)

```

```

              0bbbbbbb bl
BLOCK INFO.   0ttttttt tt total block number(minimum number
              0bbbbbbb bb current block number(0-total block
              0ds      ds Input Patch Library data
              :      :
              0ds      de
CHECK SUM     0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX          11110111 F7 End of exclusive

```

12.2.32 Bus to Stereo

DATA NAME

```

0:Library no.0 - 32:Library no.32, 256:
STATUS        11110000 F0 System exclusive message
ID No.        01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS    0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.    01111110 7E Universal bulk dump
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110101 35 '5'
              00110100 34 '4'
DATA NAME     01001010 4A 'J'
              0bbbbbbb bb 0-32(Library no.0-32), 256(Current
              0bbbbbbb bl data)
EOX          11110111 F7 End of exclusive

```

12.2.33 Surround Monitor

DATA NAME

```

0:Library no.0 - 32:Library no.32, 256:
02R96          ,                          (1-32, 256)
STATUS        11110000 F0 System exclusive message
ID No.        01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS    0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.    01111110 7E Universal bulk dump
COUNT HIGH   0ccccccc ch data count = ch * 128 + cl
COUNT LOW    0ccccccc cl
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110101 35 '5'
              00110100 34 '4'
DATA NAME     01001011 4B 'K'
              0bbbbbbb bb 0-32(Library no.0-32), 256(Current
              0bbbbbbb bl data)
BLOCK INFO.   0ttttttt tt total block number(minimum number
              0bbbbbbb bb current block number(0-total block
              0ds      ds Input Patch Library data
              :      :
              0ds      de
CHECK SUM     0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX          11110111 F7 End of exclusive

```

12.2.34 Surround Monitor

DATA NAME
 0:Library no.0 - 32:Library no.32, 256:
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 'S'
 00110100 34 '4'
 DATA NAME 01001011 4B 'k'
 0bbbbbbb bb 0-32(Library no.0-32), 256(Current data)
 0bbbbbbb bl
 EOX 11110111 F7 End of exclusive

12.2.35 effect

DATA NAME slot
 0:SLOT 1 -3:SLOT 4
 ID ID가 slot 가
 effect 가 가
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
 COUNT LOW 0ccccccc cl
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 'S'
 00110100 34 '4'
 DATA NAME 01001110 4E 'N'
 0mmmmm mh 0-3 (SLOT1-4)
 mm
 0mmmmm ml
 mm
 DATA 0xxxxxxx xh block count (High)
 0xxxxxxx xl block count (Low)
 0yyyyyyy yh total size (High)
 0yyyyyyy yl total size (Low)
 0000iiii Developer id (High)
 0000iiii Developer id (Low)
 0000jjjj Product id (High)
 0000jjjj Product id (Low)
 0ddddd ds Plug-in Effect card memory data
 : (1024/7)*8+(1024%7)+1=1171bytes
 0ddddd de
 CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
 EOX 11110111 F7 End of exclusive

12.2.36 effect

DATA NAME
 0:SLOT 1 -3:SLOT 4
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
 FORMAT No. 01111110 7E Universal bulk dump
 01001100 4C 'L'
 01001101 4D 'M'
 00100000 20 ''
 00100000 20 ''
 00111000 38 '8'
 01000011 43 'C'
 00110101 35 'S'

00110100 34 '4'
 DATA NAME 01000001 41 'A'
 0mmmmm mm 0-3 (SLOT1-4)
 mm
 0mmmmm ml
 mm
 EOX 11110111 F7 End of exclusive

12.3 PARAMETER CHANGE**12.3.1 Parameter Change**

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 0ttttttt tt Data type
 0eeeeeee ee Element No.
 (If 'ee' is 0, 'ee' is expanded to two bytes)
 0ppppppp pp Parameter No.
 0ccccccc cc Channel No.
 DATA *) 0ddddd dd Data
 : :
 EOX 11110111 F7 End of exclusive

12.3.2 Parameter Change ()

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 01111111 7F Universal
 ADDRESS 0ttttttt tt Data type
 0eeeeeee ee Element No.
 (If 'ee' is 0, 'ee' is expanded to two bytes)
 0ppppppp pp Parameter No.
 0ccccccc cc Channel No.
 DATA *) 0ddddd dd Data
 : :
 EOX 11110111 F7 End of exclusive

12.3.3

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 0ttttttt tt Data type
 0eeeeeee ee Element No.
 (If 'ee' is 0, 'ee' is expanded to two bytes)
 0ppppppp pp Parameter No.
 0ccccccc cc Channel No.
 EOX 11110111 F7 End of exclusive

12.3.4 ()

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.5

12.3.6 Parameter Change ()

[Parameter change RX]가 [Rx CH]가 SUB STATUS

[Parameter change ECHO]가

가

[Parameter change TX]가

[Control assign table]

가

가 [Tx CH]

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddd	dd	Data
	:	:	:
EOX	11110111	F7	End of exclusive

12.3.7 ()

[Parameter change RX]가 [Rx CH]가 SUB STATUS

[Parameter change ECHO]가

Parameter Change

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.8 Parameter Change ()

[Parameter change RX]가 [Rx CH]가 SUB STATUS

[Parameter change ECHO]가

가

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00001011	0B	02R96
ADDRESS	00000010	02	Patch data
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)

	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddd	dd	Data
	:	:	:
EOX	11110111	F7	End of exclusive

12.3.9 ()

[Parameter change RX]가 [Rx CH]가 SUB STATUS

[Parameter change ECHO]가

Parameter Change

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00001011	0B	02R96
ADDRESS	00000010	02	Patch data
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.10 Parameter Change ()

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00001011	0B	02R96
ADDRESS	00000011	03	Setup memory
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddd	dd	Data
	:	:	:
EOX	11110111	F7	End of exclusive

12.3.11 ()

[Parameter change RX]가 [Rx CH] SUB STATUS

[Parameter change ECHO]가

Parameter Change

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00001011	0B	02R96
ADDRESS	00000011	03	Setup memory
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.12 Parameter Change ()

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00000100 04 Backup memory
 0aaaaaaa ee Element No.
 0aaaaaaa pp Parameter No.
 0ccccc cc Channel No.
 DATA Odddddd dd Data
 : :
 EOX 11110111 F7 End of exclusive

12.3.13 ()

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 Parameter Change
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00000100 04 Backup memory
 0aaaaaaa ee Element No.
 0aaaaaaa pp Parameter No.
 0ccccc cc Channel No.
 EOX 11110111 F7 End of exclusive

12.3.14 Parameter Change (: /)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 [Parameter change ECHO]가 가
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 7F Universal
 ADDRESS 00010000 10 Address UU
 00ffff ff Address UL (function)
 0aaaaaaa aa Address LU (number H)
 0aaaaaaa aa Address LL (number L)
 DATA Odddddd dd channel High
 Odddddd dd channel Low
 EOX 11110111 F7 End of exclusive

			*1)	tx/rx
SCENE RECALL	0x00	0-99	256	tx*/r
EQ LIB RECALL	0x01	1-200	0-513	tx/rx
GATE LIB RECALL	0x02	1-128	0-95	tx/rx
COMP LIB RECALL	0x03	1-128	0-513	tx/rx
EFF LIB RECALL	0x04	1-128	0-7	tx/rx
CHANNEL LIB RECALL	0x06	0-128	0-513	tx/rx
INPATCH LIB RECALL	0x07	0-32	256	tx/rx
OUTPATCH LIB RECALL	0x08	0-32	256	tx/rx
Bus to Stereo LIB RECALL	0x09	0-32	256	tx/rx
Surround Monitor LIB RECALL	0x0A	0-32	256	tx/rx
AUTOMIX LIB RECALL	0x0B	1-16	256	tx/rx
SCENE STORE	0x20	1-99	256, 16383	tx/rx
EQ LIB STORE	0x21	41-200	0-513, 16383	tx/rx
GATE LIB STORE	0x22	5-128	0-56, 16383	tx/rx

			*1)	tx/rx
COMP LIB STORE	0x23	37-128	0-513, 16383	tx/rx
EFF LIB STORE	0x24	53-128	0-7, 16383	tx/rx
CHANNEL LIB STORE	0x26	3-128	0-513, 16383	tx/rx
INPATCH LIB STORE	0x27	1-32	256, 16383	tx/rx
OUTPATCH LIB STORE	0x28	1-32	256, 16383	tx/rx
Bus to Stereo LIB STORE	0x29	1-32	256, 16383	tx/rx
Surround Monitor LIB STORE	0x2A	1-32	256, 16383	tx/rx
AUTOMIX LIB STORE	0x2B	1-32	256, 16383	tx/rx

*1) 0:CH1 - 55:CH56, 128:BUS1 - 135:BUS8, 256:AUX1 - 263:AUX5, 512:STEREO L - 513:STEREO R

가
 256
 Effect is 0:Effect 1-3:Effect 4
 16383 (0x3FFF)
 가
 (02R96).

*2) [Program change table]

(Program Change).

12.30,1 Parameter Change (:)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 Parameter Change 가 [Rx CH] 가
 [Parameter change ECHO]가 가
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 7F Universal
 ADDRESS 00010000 10 Function call Library
 0100aaaa 4a Address UL (function)
 0nnnnnnn nn Address LU (number H)
 0nnnnnnn nn Address LL (number L)
 DATA Odddddd dd title 1
 : :
 Odddddd dd title x(depend on the library)
 EOX 11110111 F7 End of exclusive

SCENE LIB TITLE	0x40	0-99, 256(0:response only)	16
EQ LIB TITLE	0x41	1-200(1-40:response only)	16
GATE LIB TITLE	0x42	1-128(1-4:response only)	16
COMP LIB TITLE	0x43	1-128(1-36:response only)	16
EFF LIB TITLE	0x44	1-128(1-52:response only)	16
CHANNEL LIB TITLE	0x46	0-128(0-1:response only)	16
INPATCH LIB TITLE	0x47	0-32(0:response only)	16
OUTPATCH LIB TITLE	0x48	0-32(0:response only)	16
Bus to Stereo LIB TITLE	0x49	0-32(0:response only)	16
Surround Monitor LIB TITLE	0x4A	0-32(0:response only)	16
AUTOMIX LIB TITLE	0x4B	1-16	16

12.3.16 (:)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 Parameter Change 가 [Rx CH]
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 7F Universal
 ADDRESS 00010000 10 Function call Library
 0100aaaa 4a Address UL (function)
 0nnnnnnn nn Address LU (number H)
 0nnnnnnn nn Address LL (number L)
 EOX 11110111 F7 End of exclusive

12.3.17 Parameter Change (: Scene/)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가 , , (effect)
 [Parameter change ECHO]가 , 가

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0110aaaa	6a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
EOX	11110111	F7	End of exclusive

SCENE LIB CLEAR	0x60	1-99
EQ LIB CLEAR	0x61	41-200
GATE LIB CLEAR	0x62	5-128
COMP LIB CLEAR	0x63	37-128
EFF LIB CLEAR	0x64	1-128
CHANNEL LIB CLEAR	0x66	2-128
INPATCH LIB CLEAR	0x67	0-32
OUTPATCH LIB CLEAR	0x68	0-32
Bus to Stereo LIB CLEAR	0x69	0-32
Surround Monitor LIB CLEAR	0x6A	0-32
AUTOMIX LIB CLEAR	0x6B	1-16

12.3.18 Parameter Change (: ,)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가 , , (pairing) 가/
 (PAIR)
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 7F Universal
 ADDRESS 00010001 11 Function call Pair
 0000aaaa 0a Function
 DATA 0ddddddd dd Source channel number H
 0ddddddd dd Source channel number L
 0ddddddd dd Destination channel number H
 0ddddddd dd Destination channel number L
 EOX 11110111 F7 End of exclusive

PAIR ON COPY	0x00	*1)
PAIR ON RESET BOTH	0x01	*1)
PAIR OFF	0x02	*1)

*1)0:CH1 - 55:CH56, 128:BUS1 - 135:BUS8, 256:AUX1 - 263:AUX8, 512:STEREO L - 513:STEREO R
 Effect is 0:Effect 1-3:Effect 4

PAIR 가
 PAIR ON COPY ,

12.3.19 Parameter Change (:Effect)

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가 , , (effect)
 STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00000110 7F Universal
 ADDRESS 00010010 12 Function call Event
 0000aaaa 0a Function
 DATA 00000000 00 -
 0ddddddd dd Release:0, Press:1
 00000000 00 -
 0ddddddd dd Destination Effect Number 0 - 7
 EOX 11110111 F7 End of exclusive

Freeze Play	0x00	0:Effect1-3:Effect4
Freeze Record	0x01	0:Effect1-3:Effect4
Auto Pan 5.1 Trigger	0x02	0:Effect1
Auto Pan 5.1 Reset	0x03	0:Effect1

effect

12.3.20 Parameter Change ()

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가 , , ()
 가 , (PARAMETER CHANGE PARAMETER NUMBER LIST)
 [Parameter Change ECHO]가 , 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100000 20 Address UU
 0aaaaaaa aa Address UL
 0aaaaaaa aa Address LU
 0aaaaaaa aa Address LL
 DATA 0ddddddd dd 0:press, 1:release
 EOX 11110111 F7 End of exclusive

12.3.21 Parameter Change ()

10 50 msec 가 , 가
 [Parameter change ECHO]가 , , (PARAMETER CHANGE PARAMETER NUMBER LIST) 가 10
 50 msec [Rx CH] 가 PORT
 [Parameter Change ECHO]가 , 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100001 21 Address UU
 0aaaaaaa aa Address UL
 0aaaaaaa aa Address LU
 0aaaaaaa aa Address LL
 DATA 0ddddddd dd Data1 H
 0ddddddd dd Data1 L
 :
 EOX 11110111 F7 End of exclusive

DSP DECAy
 , PARAMETER CHANGE PARAMETER NUMBER

LIST

12.3.22 ()

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가
 (PARAMETER CHANGE PARAMETER NUMBER LIST) 가10 50 msec
 [Rx CH]
 Address UL= 0x7F가
 ().

[Parameter Change ECHO]가 , 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100001 21 Address UU
 0aaaaaaa aa Address UL
 0aaaaaaa aa Address LU
 0aaaaaaa aa Address LL
 DATA 0ccccccc cc Count H
 0ccccccc Cc Count L
 EOX 11110111 F7 End of exclusive

12.3.23 Parameter Change ()

가10 50 msec 가 ,
 ,10

[Parameter change ECHO]가 ,
 msec [RxCH] 가 , 가10 50
 가 PORT ,

[Parameter Change ECHO]가 , 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100001 22 Remote Time Counter
 0000tttt 0t 0:Time Code, 1:Measure, Beat, Clock
 DATA 0ddddddd dd Hour / Measure H
 0ddddddd dd Min / Measure L
 0ddddddd dd Sec / Beat
 0ddddddd dd Frame / Clock
 EOX 11110111 F7 End of exclusive

12.3.24 ()

[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가 ,
 가10 50 msec [Rx CH]
 0x7F 가 ,

[Parameter Change ECHO]가 , 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100001 22 Remote Time Counter
 0aaaaaaa aa 0:Transmission request,
 0x7F:Transmission stop request
 EOX 11110111 F7 End of exclusive

12.3.25 Parameter Change (Automix)

Automix 가 , Automix
 가10 1 Automix
 ,10
 02R96 Automix 가 , 가 가

[Parameter change ECHO]가 ,

가 , Automix 가10
 1 [Rx CH] 가 , 02R96 Automix 가
 , 가 PORT ,

[Parameter Change ECHO]가 , 가

STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0001nnnn 1n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100011 23 Automix Status
 00000000 00
 DATA 0000dddd 0d Automix Status H
 0000dddd 0d Automix Status L
 EOX 11110111 F7 End of exclusive

12.3.26 (Automix)

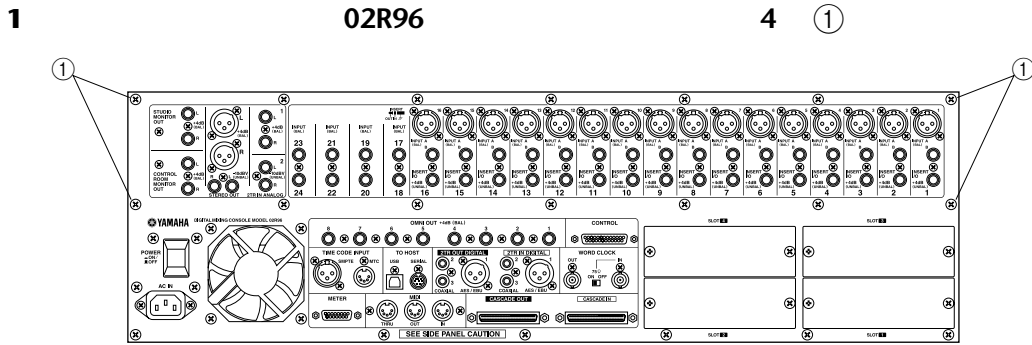
[Parameter change RX]가 [Rx CH] SUB STATUS
 [Parameter change ECHO]가 ,
 가 , Automix 가10 1 [Rx
 CH]
 0x7F 가 ,
 ().

[Parameter Change ECHO]가 , 가

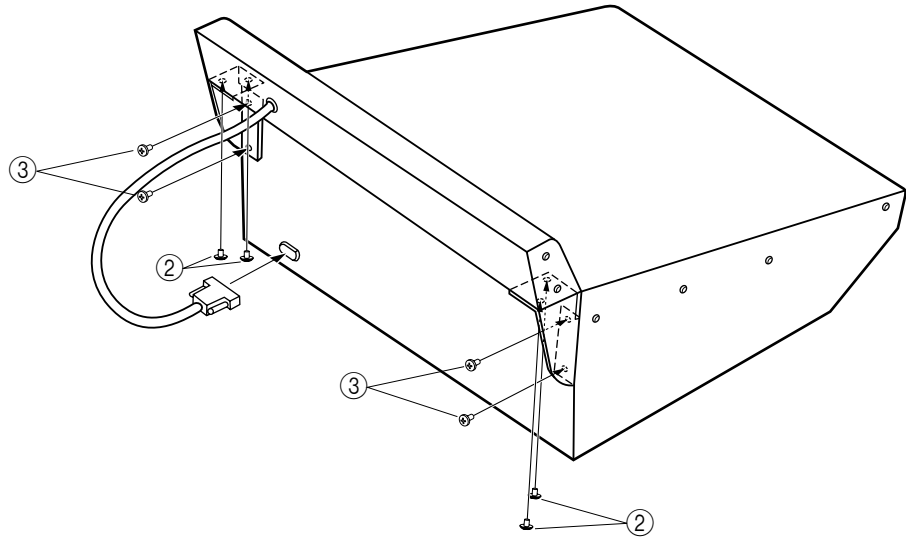
STATUS 11110000 F0 System exclusive message
 ID No. 01000011 43 Manufacture's ID number (YAMAHA)
 SUB STATUS 0011nnnn 3n n=0-15 (Device number=MIDI Channel)
 GROUP ID 00111110 3E MODEL ID (digital mixer)
 MODEL ID 00001011 0B 02R96
 ADDRESS 00100011 23 Automix Status
 0aaaaaaa aa 0:Transmission request,
 0x7F:Transmission stop request
 EOX 11110111 F7 End of exclusive

D:

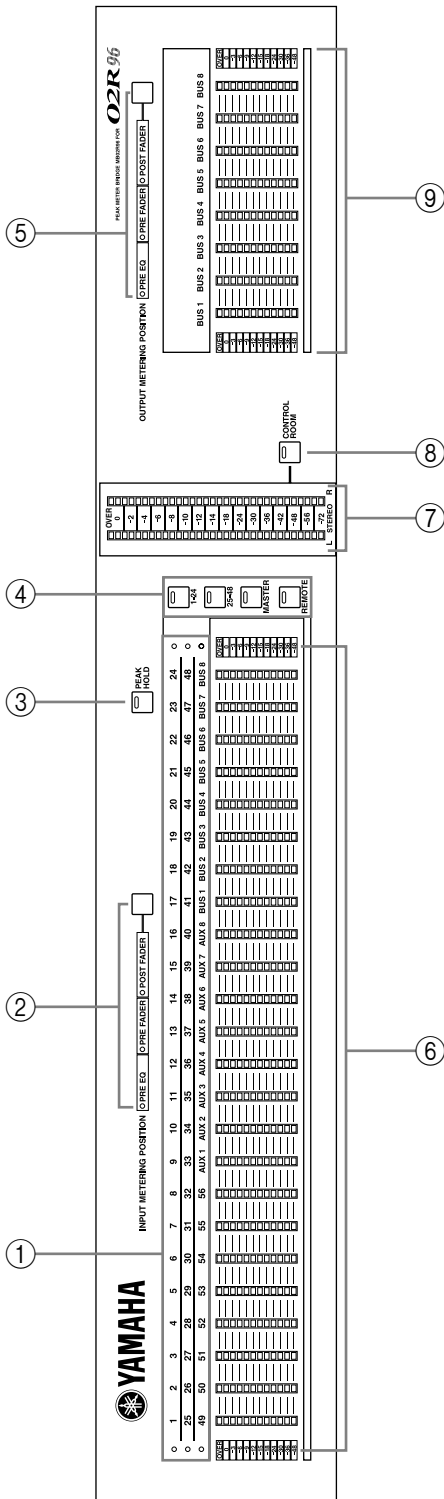
MB02R96



- 2** **8 mm** **4** **②** ,
- 3** **02R96** **12 mm** **2** **③** ,
- 2** ,
- 4** **2** **③** .
- 5** **2** **③** .
- 6** **02R96 METER** .

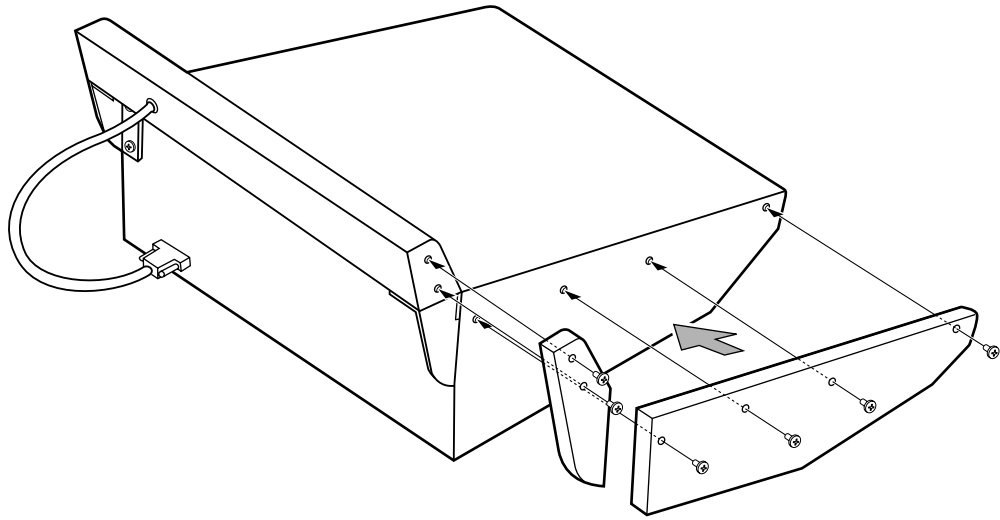


control



- ① **indicator**
Input Channel 1-24, 25-48, Aux Send 1-8, Bus Out 1-8
indicator
- ② **INPUT METERING POSITION indicator**
Input Channel pre-EQ, pre-fader
post-fader (Meter)
Input Channel PRE EQ, PRE FADER
POST FADER . indicator
- ③ **PEAK HOLD indicator가 . Meter**
PEAK HOLD
- ④ **LAYER indicator가 . Meter Follow**
Layer preference (198), O2R96
LAYER
- ⑤ **OUTPUT METERING POSITION indicator**
Output Channel pre-EQ, pre-fader
post-fader . Meter
Output Channel PRE EQ, PRE FADER POST FADER
. indicator
- ⑥ **12 LED**
- ⑦ **STEREO Stereo Out**
32
- ⑧ **CONTROL ROOM indicator가 .**
STEREO Control Room
. STEREO Control Room
- ⑨ **BUS LED Bus Out**
12

SP02R96



02R 96

STUDIO MANAGER

중요 정보

일정 책임의 배제

제조사, 수입업체 또는 판매업체는 DM2000 용 Studio Manager 또는 02R96 용 Studio Manager의 부적절한 사용 또는 작동으로 인한 인체 부상 또는 기타 손상 등 우발적 손상에 대해 책임지지 않습니다.

Yamaha는 소프트웨어 및 문서 자료의 사용에 관하여 어떠한 책임 또는 보장을 하지 않으며, 본 설명서 및 소프트웨어의 사용 결과에 대해 책임이 있는 것으로 간주될 수 없습니다.

소프트웨어 및 본 설명서의 사용은 구입자가 소프트웨어 포장 봉인을 뜯는 순간 전적으로 동의하는 소프트웨어 라이선스 계약서의 적용을 받습니다. (소프트웨어를 설치하기 전에 본 설명서 뒤에 있는 계약서를 주의 깊게 읽어 보십시오.)

등록 상표

Adobe, Acrobat 및 Reader는 Adobe Systems Incorporated의 등록 상표입니다. Apple, AppleTalk 및 Macintosh는 Apple Computer, Inc.의 등록 상표입니다. Microsoft 및 Windows는 Microsoft Corporation의 등록 상표입니다. OMS는 Opcode Systems, Inc.의 등록 상표입니다. Pentium 및 Celeron은 Intel Corporation의 등록 상표입니다. PowerPC는 International Business Machines Corporation의 등록 상표입니다. SmartMedia는 Toshiba America, Inc.의 상표입니다. 기타 모든 상표는 해당 소유자의 자산이며, 이에 인정되는 바입니다.

저작권

DM2000 용 Studio Manager 또는 02R96 용 Studio Manager 소프트웨어 또는 그 문서의 모든 부분은 Yamaha Corporation의 사전 승인서 없이 어떤 형태로든 또는 어떤 방법으로든 복제 또는 배급할 수 없습니다.

© 2002 Yamaha Corporation. All rights reserved.

Yamaha 홈페이지

DM2000 용 Studio Manager, 02R96 용 Studio Manager, 관련 제품 및 기타 Yamaha 전문 오디오 장비에 관한 정보는 Yamaha 전문 오디오 홈페이지 <<http://www.yamaha.co.jp/product/proaudio/homeenglish/navi/index.htm>>에서 구할 수 있습니다.

제품 규격 및 외장 형태는 고지 없이 바뀔 수 있습니다.

21 시작하기

소개

Yamaha Studio Manager는 윈도우나 매킨토시 컴퓨터에서 Yamaha DM2000 디지털 프로덕션 콘솔 또는 Yamaha 02R96 디지털 믹싱 콘솔을 조절할 수 있도록 하는 어플리케이션입니다. 본 설치 가이드는 DM2000 용 Studio Manager 또는 02R96 용 Studio Manager의 설치 방법을 설명합니다. Studio Manager 사용법에 관한 정보는 CD-ROM에 PDF 형식으로 동봉된 DM2000 용 Studio Manager 사용 설명서 또는 02R96 용 Studio Manager 사용 설명서를 참조하십시오. DM2000 또는 02R96의 작동법 정보는 각각 DM2000 사용 설명서 또는 02R96 사용 설명서를 참조하십시오.

CD-ROM 내용

윈도우

폴더	소프트웨어	설명
Acroread|English	Acrobat Reader 1.2	PDF 형식의 설명서를 읽기 위한 Adobe Acrobat Reader.
SM_\DM2000	DM2000 용 Studio Manager ¹	DM2000 용 Yamaha Studio Manager
SM_\ 02R96	02R96 용 Studio Manager ¹	02R96 용 Yamaha Studio Manager
Mididrv_	Yamaha CBX 드라이버	Yamaha 직렬 드라이버. PC의 직렬 포트에 연결 시 필요.
USBdrv_	Yamaha USB MIDI 드라이버(윈도우 98, Me)	Yamaha USB 드라이버. PC의 USB 포트에 연결 시 필요.
USBdrv2k_	Yamaha USB MIDI 드라이버(윈도우 2000, XP)	
Card_	Card Filer ¹	DM2000의 SmartMedia에 저장된 데이터를 전송 및 관리하는 Yamaha 유틸리티.

1. 이 소프트웨어의 자세한 사용법은 설치 후 PDF 설명서를 참조하십시오.
2. 이 소프트웨어는 Yamaha가 공급하지 않습니다.

매킨토시

폴더	소프트웨어	설명
Acroread|English	Acrobat Reader 1.2	PDF 형식의 설명서를 읽기 위한 Adobe Acrobat Reader.
SM_\DM2000	DM2000 용 Studio Manager ¹	DM2000 용 Yamaha Studio Manager
SM_\ 02R96	02R96 용 Studio Manager ¹	02R96 용 Yamaha Studio Manager
OMS_	Open Music System(OMS) 2.3.8 ^{1, 2}	매킨토시 컴퓨터에서 MIDI 애플리케이션에 사용하기 위한 Opcode 드라이버 소프트웨어.
	YAMAHA 용 OMS 셋업	DM2000 및 02R96 용 OMS 스튜디오 셋업 파일.
USBdrv_	YAMAHA USB MIDI 드라이버	Yamaha USB 드라이버. 매킨토시 컴퓨터의 USB 포트에 연결 시 필요.
Card_	Card Filer ¹	DM2000의 SmartMedia에 저장된 데이터를 전송 및 관리하는 Yamaha 유틸리티.

1. 이 소프트웨어의 자세한 사용법은 설치 후 PDF 설명서를 참조하십시오.
2. 이 소프트웨어는 Yamaha가 공급하지 않습니다.

윈도우 시스템 요구 사항

사용자 운영체제의 시스템 요구 사항은 여기 기재된 것과 다를 수 있습니다.

DM2000 용 Studio Manager /O2R96 용 Studio Manager

컴퓨터	인텔 펜티엄 또는 셀러론 군 프로세서 433MHz 이상 탑재 PC
OS	윈도우 98SE, Me, 2000, XP Home Edition, XP Professional
메모리	128MB 이상
하드 디스크	여유 공간 20MB 이상
디스플레이	1024x768픽셀, 256색 이상 1280x1024, 하이컬러 16비트 권장 (디스플레이 설정이 1024x768인 경우, 작업표시줄의 자동숨김 옵션을 선택하십시오.)

Card Filer(DM2000 전용)

컴퓨터	인텔 펜티엄 또는 셀러론 군 프로세서 100MHz 이상 탑재 PC
OS	윈도우 95, 98, 98SE, Me, NT4.0, 2000, XP Home Edition, XP Professional
메모리	8MB 이상
하드 디스크	여유 공간 2MB 이상
디스플레이	800x600픽셀, 256색 이상

Yamaha USB MIDI 드라이버

컴퓨터	인텔 펜티엄 또는 셀러론 군 프로세서 166MHz 이상과 USB 포트 탑재 PC
OS	윈도우 98, 98SE, Me, 2000, XP Home Edition, XP Professional
메모리	32MB 이상
하드 디스크	여유 공간 2MB 이상

Yamaha CBX 드라이버

OS	윈도우 95, 98, 98SE, Me, NT4.0, 2000, XP Home Edition, XP Professional
----	---

여기 기재되지 않은 소프트웨어에 대한 시스템 요구 사항은 CD-ROM에 있습니다.

매킨토시 시스템 요구 사항

사용자 운영체제의 시스템 요구 사항은 여기 기재된 것과 다를 수 있습니다.

DM2000 용 Studio Manager /O2R96 용 Studio Manager

컴퓨터	매킨토시 G3/233MHz 이상 및 USB 포트
OS	Mac OS 8.6 ~ 9.2.2(Mac OS X는 지원되지 않습니다)
메모리	여유 메모리 50MB 이상(가상 메모리는 꺼야 합니다)
하드 디스크	7MB 이상
디스플레이	1024x768픽셀, 256색 이상 1280x1024, 32,000색 권장
기타	OMS 2.3.3 이상

주: 배터리 전원으로 PowerBook을 사용하는 경우에는, Energy Save 제어판을 열고, 고급 설정, 추가 전원 절약에서 Allow 프로세서 사이클링을 끄십시오.

Card Filer(DM2000만 해당)

컴퓨터	PowerPC 프로세서 이상 탑재 매킨토시 컴퓨터
OS	Mac OS 7.5 ~ 9.2.2(Mac OS X는 지원되지 않습니다)
메모리	여유 메모리 8MB 이상
하드 디스크	6MB 이상
디스플레이	800x600픽셀, 256색 이상

Yamaha USB MIDI 드라이버

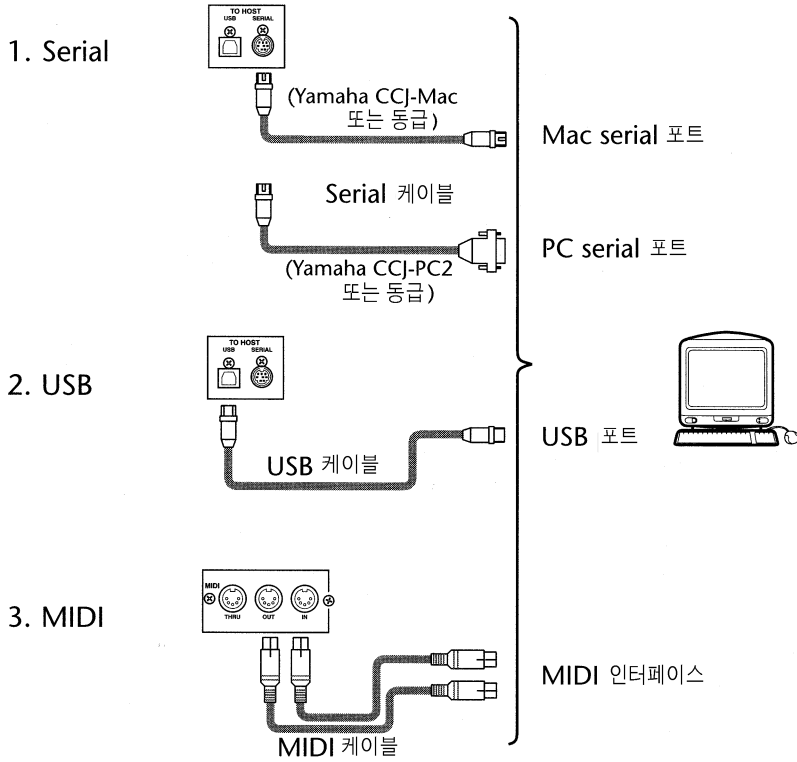
컴퓨터	PowerPC 프로세서 이상 및 USB 포트 탑재 매킨토시 컴퓨터
OS	Mac OS 8.6 ~ 9.2.2(Mac OS X는 지원되지 않습니다)
메모리	여유 메모리 64MB 이상(128MB 이상 권장)
하드 디스크	2MB 이상

여기 기재되지 않은 소프트웨어에 대한 시스템 요구 사항은 CD-ROM에 있습니다.

DM2000/02R96 연결

다음 그림은 DM2000/02R96을 컴퓨터의 직렬, USB 또는 MIDI에 연결하는 3가지 연결 방법을 보여줍니다

DM2000/02R96 뒷면 패널 Mac 또는 PC



주: 직렬 포트 또는 MIDI 포트에 연결하기 전에, DM2000/02R96 및 컴퓨터를 끄십시오.

DM2000/02R96 구성

DM2000/02R96에서 DISPLAY ACCESS [SETUP] 버튼을 사용해 MIDI/TO HOST Setup 페이지를 찾습니다. "Studio Manager" 아래에서 포트를 선택하고 DM2000/02R96에 ID를 지정합니다. 직렬 연결을 사용하는 경우, TO HOST SERIAL 옵션을 필요에 따라 설정합니다(즉, 윈도우 PC의 경우 "PC-2", 매킨토시 컴퓨터의 경우 "Mac"). 더 자세한 내용은 DM2000 사용 설명서 또는 02R96 사용 설명서를 참조하십시오.

22 윈도우 설치

Acrobat Reader

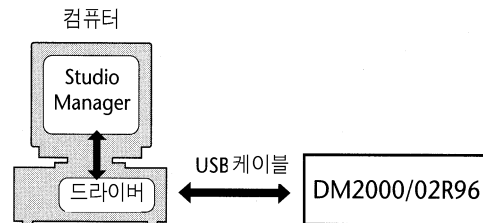
DM2000 용 Studio Manager 사용 설명서 또는 O2R96 용 Studio Manager 사용 설명서를 읽기 위해서는, CD-ROM에 포함된 Adobe Acrobat Reader 소프트웨어를 설치해야 합니다. 이 소프트웨어가 이미 설치된 경우에는 이 단계를 건너 뛴니다.

1. 컴퓨터 및 윈도우를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM에서 "Acroread_" 폴더를 더블클릭합니다.
이 폴더에는 여러 언어의 Acrobat 소프트웨어가 들어 있습니다.
3. 설치할 언어의 폴더를 더블클릭합니다.
4. "ar500***.exe"를 더블클릭합니다("***"는 선택 언어를 나타냅니다).
5. 화면 지시를 따라 소프트웨어를 설치합니다.

Acrobat Reader 사용 설명은 Acrobat Reader의 도움말 메뉴에서 Reader Help를 선택하면 볼 수 있습니다.

USB MIDI 드라이버

DM2000/O2R96을 컴퓨터의 USB 포트에 연결하는 경우, Yamaha USB 드라이버를 설치해야 합니다. 이 소프트웨어가 이미 설치된 경우에는 이 단계를 건너 뛴니다.



Yamaha USB 드라이버 설치 절차는 사용하는 윈도우 버전에 따라 다릅니다.

- 윈도우 98 및 98SE, 6 페이지 참조
- 윈도우 Me, 8 페이지 참조
- 윈도우 2000, 9 페이지 참조
- 윈도우 XP, 10 페이지 참조

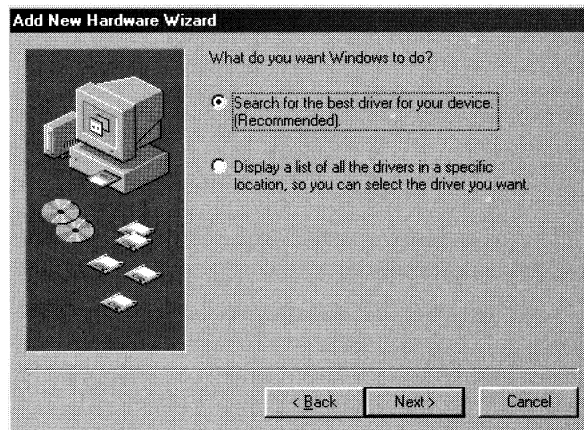
윈도우 98 및 98SE

1. 컴퓨터 및 윈도우를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. DM2000/O2R96을 끄고, USB 케이블을 사용해 DM2000/O2R96의 USB TO HOST 포트를 컴퓨터의 USB 포트에 연결합니다.
3. DM2000/O2R96을 켭니다.

새 하드웨어 추가 마법사가 나타납니다. 마법사가 나타나지 않는 경우, USB 케이블을 분리하여 다시 연결해 보십시오. 아니면, 새 하드웨어 추가 제어판을 엽니다.



4. Next를 클릭합니다.
다음 창이 나타납니다.



5. "장치에 가장 잘 맞는 드라이버 검색(권장)(Search for the best driver for your device(Recommended))"을 선택한 다음, Next를 클릭합니다.

다음 창이 나타납니다.



6. "위치 지정"을 선택하고, "D:\USBdrv_"("D"를 자신의 CD-ROM 드라이브에 해당하는 문자로 교체)를 지정한 다음, Next를 클릭합니다.
드라이버를 찾으면, 아래 그림과 같이 "YAMAHA USB MIDI 드라이버"가 표시됩니다.



7. Next를 클릭합니다.

주: 윈도우 CD-ROM을 삽입하라는 지시가 나올 수 있습니다. CD-ROM을 삽입하지 말고, OK를 클릭합니다! 그리고 이후 대화 상자의 "Copy files from" 부분에서 "D: \USBdrv_"("D"를 자신의 CD-ROM 드라이브에 해당하는 문자로 교체)를 입력한 다음, OK를 클릭합니다.

드라이버가 설치되고, 설치가 완료되면 다음 창이 나타납니다.



8. Finish를 클릭한 다음, 컴퓨터를 다시 시작합니다.

윈도우 Me

1. 컴퓨터 및 윈도우를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. DM2000/O2R96을 끄고, USB 케이블을 사용해 DM2000/O2R96의 USB TO HOST 포트를 컴퓨터의 USB 포트에 연결합니다.
3. DM2000/O2R96을 켭니다.

새 하드웨어 추가 마법사가 나타납니다. 마법사가 나타나지 않는 경우, USB 케이블을 분리하여 다시 연결해 보십시오. 아니면, 새 하드웨어 추가 제어판을 엽니다.



4. "적절한 드라이버 자동 검색(권장)(Automatic search for a better driver (Recommended))"을 선택한 다음, Next를 클릭합니다.

윈도우 Me는 드라이버를 자동으로 찾게 되어 있으며, 이 경우 제5단계로 넘어갈 수 있습니다. 드라이버를 찾지 못하는 경우, "드라이버 위치 지정(고급)(Specify the location of the driver(Advanced))"을 선택하고, Next를 클릭하여, CD-ROM 드라이브(예, D: \USBdrv_)를 지정한 다음, 지시대로 계속합니다.

설치가 완료되면 다음 창이 나타납니다.



5. Finish를 클릭한 다음, 컴퓨터를 다시 시작합니다.

윈도우 2000

1. 컴퓨터 및 윈도우를 시작하고, 관리자로 로그인 한 다음, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. 내 컴퓨터(My Computer) -> 제어판(Control Panel) -> 시스템(System) -> 하드웨어(Hardware) -> 드라이버 서명(Driver Signature) -> 파일 서명 확인(File Signature Verification)으로 가서, "무시-파일 서명에 상관 없이 모든 파일 설치 (Ignore-Install all files, regardless of file signature)"를 선택한 다음, OK를 클릭합니다.
3. DM2000/02R96을 끼고, USB 케이블을 사용해 DM2000/02R96의 USB TO HOST 포트를 컴퓨터의 USB 포트에 연결합니다.
4. DM2000/02R96을 켭니다.
새 하드웨어 발견 마법사가 나타납니다.
5. Next를 클릭합니다.
6. "장치에 적절한 드라이버 검색(권장)(Search for a suitable driver for my device (Recommended))"을 선택한 다음, Next를 클릭합니다.
7. 이후 창에서, "CD-ROM 드라이브"만 선택한 다음, Next를 클릭합니다.

주: 윈도우 CD-ROM을 삽입하라는 지시가 나올 수 있습니다. CD-ROM을 삽입하지 말고, OK를 클릭합니다! 그리고 이후 대화 상자의 "Copy files from" 부분에서 "D:\USBdrv2k_"("D"를 자신의 CD-ROM 드라이브에 해당하는 문자로 교체)를 입력한 다음, OK를 클릭합니다.

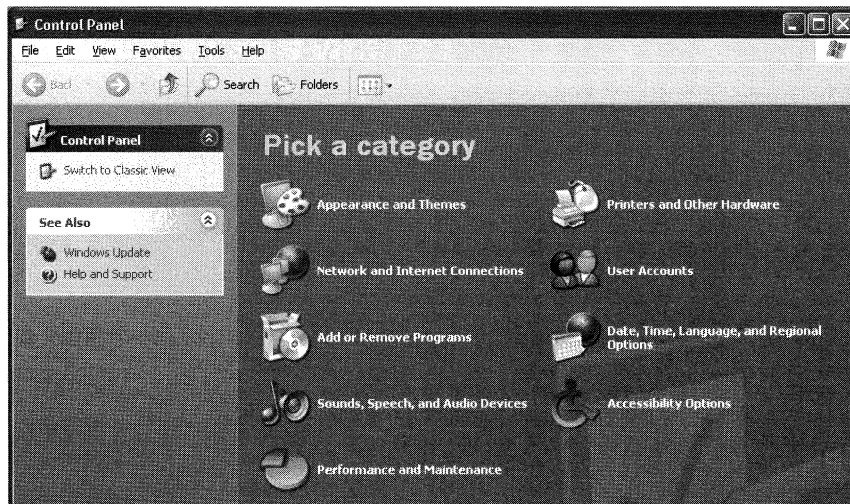
드라이버가 설치되고, "새 하드웨어 발견 마법사 완료 중(Completing the Found New Hardware Wizard)"이라는 메시지가 나타납니다.

8. Finish를 클릭한 다음, 컴퓨터를 다시 시작합니다.

윈도우 XP

1. 컴퓨터 및 윈도우를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. 시작 버튼을 클릭한 다음, 제어판(Control Panel)을 클릭합니다.

아래 그림과 같이 제어판 창(Control Panel)이 나타나면, 모든 제어판(Control Panel)이 보이도록 창 왼쪽의 "클래식 보기로 전환(Switch to Classic View)"을 클릭합니다.



3. 시스템 하드웨어(System Hardware) -> 드라이버 서명(Driver signatures) -> 드라이버 서명 옵션(Driver signature options)으로 가서, "무시-확인을 요구하지 않고 소프트웨어 설치(Ignore-Install software without asking for confirmation)"를 선택한 다음, OK를 클릭합니다.
4. OK를 클릭하여 시스템 프로퍼티 창을 닫은 다음, 닫기 버튼을 클릭하여 제어판(Control Panel) 창을 닫습니다.
5. DM2000/02R96을 끼고, USB 케이블을 사용해 DM2000/02R96의 USB TO HOST 포트를 컴퓨터의 USB 포트에 연결합니다.
6. DM2000/02R96을 켭니다.
새 하드웨어 발견 마법사가 나타납니다.
7. "소프트웨어 자동 설치(권장)(I)(Install software automatically(recommended)(I))"를 선택한 다음, Next를 클릭합니다.
드라이버가 설치되고, "새 하드웨어 발견 마법사 완료 중(Completing the Found New Hardware Wizard)"이라는 메시지가 나타납니다.
8. Finish를 클릭한 다음, 컴퓨터를 다시 시작합니다.

Yamaha CBX 드라이버

DM2000/O2R96을 컴퓨터의 직렬 포트에 연결하는 경우, Yamaha CBX 드라이버를 설치해야 합니다. 이 소프트웨어가 이미 설치된 경우에는 이 단계를 건너 뛴니다.

1. CD-ROM의 "Mididrv_" 폴더를 더블클릭합니다.
2. "Setup.exe"를 더블클릭합니다.
3. 화면 지시를 따라 소프트웨어를 설치합니다.

DM2000 용 Studio Manager

1. CD-ROM의 "SM_" 폴더를 더블클릭합니다.
2. "DM2000" 폴더를 더블클릭합니다.
3. "Setup.exe"를 더블클릭합니다.
4. 화면 지시를 따라 소프트웨어를 설치합니다.

O2R96 용 Studio Manager

1. CD-ROM의 "SM_" 폴더를 더블클릭합니다.
2. "O2R96" 폴더를 더블클릭합니다.
3. "Setup.exe"를 더블클릭합니다.
4. 화면 지시를 따라 소프트웨어를 설치합니다.

Card Filer(DM2000 전용)

1. CD-ROM의 "Card_" 폴더를 더블클릭합니다.
2. "Setup.exe"를 더블클릭합니다.
3. 화면 지시를 따라 소프트웨어를 설치합니다.

Card Filer 사용법은 Card Filer와 같은 폴더에 설치되어 있는 Card Filer PDF 설명서를 참조하십시오.

23 매킨토시 설치

Acrobat Reader

DM2000 용 Studio Manager 사용 설명서 또는 O2R96 용 Studio Manager 사용 설명서를 읽기 위해서는, CD-ROM에 포함된 Adobe Acrobat Reader 소프트웨어를 설치해야 합니다. 이 소프트웨어가 이미 설치된 경우에는 이 단계를 건너 뛩니다.

1. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM의 "Acroread_" 폴더를 더블클릭합니다.
이 폴더에는 여러 언어의 Acrobat 소프트웨어가 들어 있습니다.
3. 설치할 언어의 폴더를 더블클릭합니다.
4. "Reader Installer"를 더블클릭합니다.
(installer의 이름은 선택 언어에 따라 다릅니다.)
5. 화면 지시를 따라 소프트웨어를 설치합니다.
Acrobat Reader 사용 설명은 Acrobat Reader의 도움말 메뉴에서 Reader Guide를 선택하면 볼 수 있습니다.

OMS(Open Music System)

Studio Manager가 매킨토시 컴퓨터에서 작동하기 위해서 OMS 2.3.3 이상이 필요합니다. CD-ROM에 OMS 2.3.8이 들어 있습니다. 이 소프트웨어가 이미 설치된 경우에는 이 단계를 건너 뛩니다.

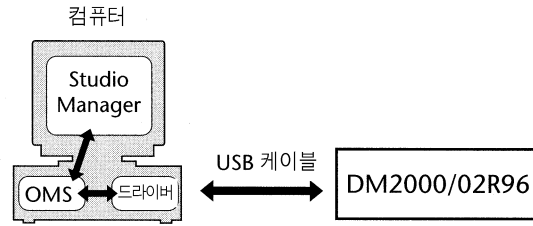
1. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM의 "OMS_" 폴더를 더블클릭합니다.
3. "Install OMS 2.3.8"을 더블클릭합니다.
4. 화면 지시를 따라 소프트웨어를 설치합니다.
5. 설치가 완료되면, Restart를 클릭합니다.

주: 설치가 일단 완료되면, installer가 끝나지 않았다는 에러 메시지가 나올 수 있습니다. 이런 경우, 파일 메뉴에서 끝내기(Quit)를 선택한 다음, 컴퓨터를 다시 시작합니다.

6. CD-ROM에서 "OMS_" 폴더의 "OMS_2.3_Mac.pdf"를 하드 디스크의 "Opcode: OMS Applications" 폴더로 복사합니다.
이 파일에는 OMS 사용 및 구성에 관한 정보가 들어 있습니다.

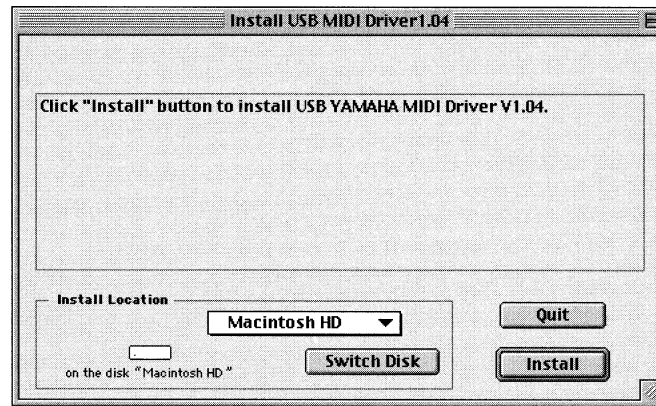
USB MIDI 드라이버

DM2000/02R96을 컴퓨터의 USB 포트에 연결하는 경우, Yamaha USB 드라이버를 설치해야 합니다. 이 소프트웨어가 이미 설치된 경우에는 이 단계를 건너 뛴니다.



1. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM의 "USBdrv_" 폴더를 더블클릭합니다.
3. "Install USB MIDI Driver"를 더블클릭합니다.

아래 그림과 같이 Install USB MIDI Driver 창이 나타납니다.



일반적으로, 시동 디스크가 기본으로 선택되기 때문에, Install Location을 설정할 필요는 없습니다. 다른 디스크를 선택하려면, Switch Disk 버튼을 클릭합니다. 팝업 메뉴에서 폴더를 선택할 수 있지만, 지정 디스크의 System Folder에 파일이 설치되기 때문에, 그 설정을 무시해도 됩니다.

4. Install을 클릭하고, 화면 지시를 따라 소프트웨어를 설치합니다.
5. 설치가 완료되면, Restart를 클릭합니다.

DM2000 용 Studio Manager

1. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM의 "SM_" 폴더를 더블클릭합니다.
3. "DM2000" 폴더를 더블클릭합니다.
4. "Install Studio Manager"를 더블클릭합니다.
5. 화면 지시를 따라 소프트웨어를 설치합니다.

02R96 용 Studio Manager

1. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM의 "SM_" 폴더를 더블클릭합니다.
3. "02R96" 폴더를 더블클릭합니다.
4. "Install Studio Manager"를 더블클릭합니다.
5. 화면 지시를 따라 소프트웨어를 설치합니다.

Card Filer(DM2000 전용)

1. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
2. CD-ROM의 "Card_" 폴더를 더블클릭합니다.
3. "Install Card Filer"를 더블클릭합니다.
4. 화면 지시를 따라 소프트웨어를 설치합니다.

Card Filer 사용법은 Card Filer와 같은 폴더에 설치되는 "CardFilerManual.pdf"를 참조하십시오.

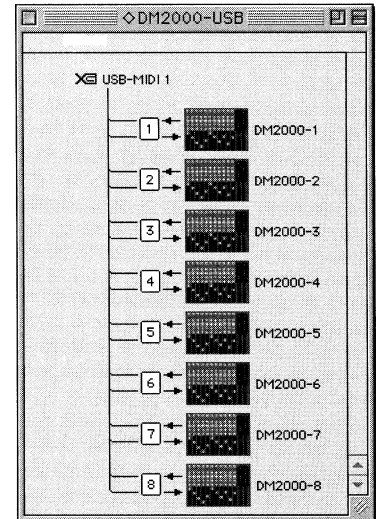
OMS 셋업

동봉 CD-ROM의 "OMS Setup for YAMAHA" 폴더에는 DM2000 및 02R96 용 OMS 스튜디오 셋업 파일이 포함되어 있습니다.

1. DM2000/02R96을 끄고, USB 케이블을 사용해 DM2000/02R96의 USB TO HOST 포트를 컴퓨터의 USB 포트에 연결합니다.
SERIAL TO HOST 포트에 연결하는 경우, 직렬 케이블을 사용해 컴퓨터의 프린터 또는 모뎀 포트에 연결합니다.
2. DM2000/02R96을 켭니다.
3. 매킨토시를 시작하고, 동봉 CD-ROM을 컴퓨터의 CD-ROM 드라이브에 넣습니다.
4. CD-ROM의 "OMS_" 폴더를 연 다음, "OMS Setup for YAMAHA" 폴더를 엽니다.
이 폴더에는 6개의 OMS 스튜디오 셋업 파일이 있습니다.
 - DM2000-USB
 - DM2000-Modem
 - DM2000-Printer
 - 02R96-USB
 - 02R96-Modem
 - 02R96-Printer
5. 필요한 파일을 컴퓨터의 하드 디스크에 복사한 다음, 더블클릭합니다.

OMS Setup이 시작되고, 옆의 예 DM2000-USB 스튜디오 셋업과 같이, Studio Setup 파일 창이 나타납니다. 제목 표시줄에서 셋업 이름 옆의 ◇ 기호는 이것이 현재의 Studio Setup임을 나타냅니다.

6. ◇ 기호가 표시되지 않는 경우, 파일 메뉴에서 **Make Current**를 선택한 다음, 셋업을 저장합니다.



주: 모뎀 또는 프린터 포트를 사용하는 경우, OMS Setup Preferences로 가서 "Use Apple SerialDMA driver when available"을 해제하십시오.

위 셋업이 완료되면, DM2000이 현재 OMS 스튜디오 셋업에서 유일한 MIDI 장치가 됩니다. 다른 MIDI 장치를 사용하거나 DM2000을 더 추가하려면, 새 스튜디오 셋업을 만들어야 합니다. 더 자세한 내용은 "OMS_2.3_Mac.pdf"를 참조하십시오.

24 문제 해결

USB를 통해 DM2000/02R96을 조절할 수 없다

- Yamaha USB MIDI 드라이버를 설치했습니까(윈도우 5 페이지, 매킨토시 13 페이지)?
- USB 케이블이 제대로 연결되었습니까(4 페이지)?
- DM2000/02R96이 제대로 구성되었습니까(4 페이지)?
- Studio Manager가 올바른 ID에 설정되었습니까? (Studio Manager 자료 참조)
- 매킨토시: OMS가 제대로 구성되었습니까(14 페이지)? 시스템에 따라, 포함된 OMS 스튜디오 셋업 파일이 제대로 작동하지 않을 수 있습니다. 이런 경우, 새 스튜디오 셋업을 만들어야 합니다. 더 자세한 내용은 "OMS_2.3_Mac.pdf"를 참조하십시오.

Yamaha USB MIDI 드라이버를 설치할 수 없다

- USB 케이블이 제대로 연결되었습니까(4 페이지)?
- USB 케이블을 분리하여 다시 연결해 보십시오.
- 윈도우: USB가 허가되었습니까? DM2000/02R96을 컴퓨터에 처음 연결할 때, 새 하드웨어 추가 마법사가 나타나지 않으면, 컴퓨터의 USB controller가 금지되어 있기 때문일 수 있습니다. 이 점을 점검하려면, 시스템 제어판을 열고, 장치 관리자 탭을 클릭하여, "Universal Serial Bus controllers" 및 "USB Root Hub" 항목 옆에 엑스표(x) 또는 느낌표(!)가 있는지 확인하십시오. 이들 항목 옆에 이런 표시가 있으면, USB controller가 금지됩니다. USB controller를 허가하는 방법은 컴퓨터 자료를 참조하십시오.
- 윈도우: 어떠한 이유로 Yamaha USB 드라이버 설치를 실패하는 경우, DM2000/02R96이 알려지지 않은 장치로 등록되어 이 알려지지 않은 장치가 삭제될 때까지 드라이버를 재설치하지 못하는 것일 수 있습니다. 이런 경우, 시스템 제어판을 열고, 장치 관리자 탭을 클릭하여, "View devices by connection" 옵션을 선택합니다. 목록에 "Other devices"라는 항목이 나타나면, 클릭하십시오. "Unknown device"라는 항목이 있으면, 선택한 다음, Remove 버튼을 클릭합니다. USB 케이블을 분리한 다음 다시 연결하고, 이제 드라이버 설치를 다시 해보십시오.

Yamaha USB MIDI 드라이버를 설치한 후 OMS가 작동을 멈춘다

- 매킨토시: Yamaha USB MIDI 드라이버는 Mac OS 8.6 ~ 9.2.2를 지원합니다. 이전 버전의 Mac OS가 구동되는 컴퓨터에 설치하는 경우, OMS가 제대로 작동하지 않습니다. 이 경우에는 아래 설명대로 Yamaha USB MIDI 드라이버를 제거해야 합니다.

Yamaha USB MIDI 드라이버를 제거 및 재설치하는 방법

- 윈도우 98/Me: Yamaha USB MIDI 드라이버가 성공적으로 설치되었고 DM2000/02R96이 제대로 인식되었다고 가정할 때, 다음과 같이 드라이버를 컴퓨터에서 제거할 수 있습니다. 시스템 제어판을 열고, 장치 관리자 탭을 클릭하여, "YAMAHA USB MIDI Driver"를 선택한 다음, Remove 버튼을 클릭합니다. 다음의 파일을 삭제한 후, USB 케이블을 분리하여 다시 연결한 다음, 드라이버를 다시 설치합니다.

Windows\Inf\Other\YAMAHADM2000.INF(또는 YAMAHA02R96.INF)

Windows\System\Xgusb.driv

Windows\System\Ymidusb.sys

- 매킨토시: 다음의 파일을 제거하고, 그 후에 컴퓨터를 다시 시작하여 드라이버를 다시 설치한 다음 OMS를 셋업하면, 드라이버를 컴퓨터에서 제거할 수 있습니다.

성능 향상

- 컴퓨터가 반응하지 않는 것처럼 보이는 경우, 시스템 요구 사항이 만족되는지 확인하십시오 (윈도우 2 페이지, 매킨토시 3 페이지).
- 사용하지 않는 다른 어플리케이션을 끄십시오.
- 매킨토시: 가상 메모리 및 AppleTalk를 꺼 보십시오.

컴퓨터를 중단 또는 재개할 수 없다

- 윈도우: MIDI 어플리케이션이 열려 있으면 중단이 되지 않습니다.
- 윈도우 2000: 일부 시스템에서는 USB controller 등에 따라, 중단 및 재개가 제대로 되지 않을 수 있습니다. DM2000/O2R96이 반응을 멈춘 경우, USB 케이블을 분리하여 다시 연결해 보십시오.

소프트웨어 라이선스 계약서

다음은 최종 사용자와 Yamaha Corporation("Yamaha") 간의 법적 계약서입니다. 동봉된 Yamaha 소프트웨어 프로그램은 Yamaha에 의해 원 구매자에게 여기서 설명되는 조건으로만 사용이 허가됩니다. 본 라이선스 계약서를 주의 깊게 읽어보기 바랍니다. 이 포장을 개봉하는 것은 여기에 개설된 모든 조건을 수용함을 의미합니다. 조건에 동의하지 않을 경우, 이 포장을 개봉하지 않은 채 Yamaha에 반환하면 전액 환불됩니다.

라이선스 및 저작권 부여: Yamaha는 원 구매자에게 동봉된 소프트웨어 프로그램 및 데이터("소프트웨어") 1부를 단일 사용자 컴퓨터에서 사용할 수 있는 권리를 부여합니다. 하나 이상의 컴퓨터 및 컴퓨터 단말기에서 사용할 수 없습니다. 소프트웨어는 Yamaha가 소유하며 일본 저작권법 및 모든 해당 국제 조약 규정에 의해 보호됩니다. 사용자는 소프트웨어가 포함된 매체의 소유권을 주장할 권리가 있습니다. 따라서 소프트웨어는 기타 다른 저작권 보호 자료처럼 취급되어야 합니다.

제한 조건: 소프트웨어 프로그램은 저작권으로 보호됩니다. 사용자는 생각할 수 있는 기타 방법에 의한 소프트웨어의 분해 공학 및 복제에 종사할 수 없습니다. 사용자는 소프트웨어를 전체 또는 부분적으로 복제, 수정, 변경, 임대, 전매 또는 배포할 수 없으며, 소프트웨어로부터 파생물을 만들 수 없습니다. 사용자는 소프트웨어를 다른 컴퓨터에 전송하거나 다른 컴퓨터와 네트워크 연결할 수 없습니다. 사용자가 사본을 보유하지 않고 수령자가 라이선스 계약서에 동의한다면, 사용자는 소프트웨어와 첨부 서류 자료의 소유권을 영구히 양도할 수 있습니다.

종료: 소프트웨어 프로그램의 라이선스 조건은 사용자가 소프트웨어를 받은 날부터 발효합니다. 임의의 저작권법 또는 라이선스 조건 조항이 위반되는 경우, 라이선스 계약서는 Yamaha의 통지 없이 자동 종료됩니다. 이 경우, 사용자는 라이선스 받은 소프트웨어와 그 사본을 즉각 파기해야 합니다.

제품 보증: Yamaha는, 정상적인 조건에서 사용 시, 소프트웨어가 Yamaha 제공 사용 설명서에 설명된 기능을 수행하지 않을 경우, 유일한 구제 방법으로서 결함이 있는 것으로 나타난 매체를 비용 없이 물건 또는 기술로 교환 방식으로 교체할 것을 원 구매자에게 보증합니다. 위에서 명시적으로 설명한 이외에는, 소프트웨어가 "있는 그대로" 제공되며, 시장성 및 특정 목적에의 적합성에 대한 암시적 보증을 무제한 포함하여 이 소프트웨어에 관한 기타 명시적 또는 암시적 보증은 없습니다.

책임 한도: 유일한 구제 방법과 Yamaha의 전체 책임은 위에 설명된 바와 같습니다. 어떠한 경우에도 Yamaha는, Yamaha 또는 공인 구입처의 손해 가능성에 대한 조언에도 불구하고 소프트웨어의 사용 또는 사용 무능력으로 인한 부수적 또는 간접적 손해, 비용, 수익 상실, 저축액 상실 또는 기타 손해를 무제한 포함하여 어떠한 손해에 대해서도 또는 타 당사자의 어떠한 주장에 대해서도 사용자 또는 타인에게 책임지지 않습니다.

총칙: 본 라이선스 계약서는 일본법에 따라 해석되며 일본법의 적용을 받습니다.

		Remote Layer	148
		189	154
		196	return 147
+48V ON/OFF	5	ATTACK control	12 168
		Attenuating()	takeover 147
1-24	15	가	153
25-48	15		90
2TR I/O		AUTO	timecode offset 146
	48	5	152
	48	149	in/out 151
	56	Pro Tools	159
Direct Out	56	173	undo 148
	52	STEREO	15
		154	update to end 146
	44	Auto channel select	what's recorded 145
2TR IN ANALOG 1 +4 dB (BAL)	25	34	AUTOMIX 7
2TR IN ANALOG 2 -10 dBV		Auto Channel Select preference	145
(UNBAL)	25	197	AUTOMIX MAIN 146
2TR IN DIGITAL AES/EBU 1	27	Auto DYNAMICS Display	AUTOMIX MEMORY 150
2TR IN DIGITAL COAXIAL 2	3	preference	197
	27	Auto EQ Edit In preference	199
2TR OUT DIGITAL AES/EBU 1	26	Auto EQUALIZER Display	preference 197
2TR OUT DIGITAL COAXIAL 2	3	preference	197
	26	Auto Inc TC Capture preference	199
2TR OUT DIGITAL OUT PATCH		AUTO PAN 5.1	246
	56	Auto PAN/SURROUND Display	preference 197
3-1 surround	69	Auto ROUTING Display preference	197
5.1 surround	69	197	Auto scene memory update 139
96 kHz, 88.2 kHz, 48 kHz, 44.1 kHz,		Auto SOLO Display preference	197
selecting()	42	Auto WORD CLOCK Display	preference 197
		preference	197
A		Automix	145
Absolute mode, automix	148		148
AC IN connector	28	AUTO	149
AD inputs		cascading consoles	49
connectors	24	event	158
	39	event	161
	52	event	161
output channel insert in	55	event	158
	5	EVENT COPY	158
talkback	121	EVENT EDIT	161
Adat I/O	45	event	161
AES/EBU I/O	45	FADER EDIT	151
AMP SIMULATE	233	features	2
Analog I/O & the AD input section		event	161
chapter(I/O			130
AD Input)	39	MAIN	146
Architecture()		MEMORY	150
1		event	158
I/O 1		on/off	151
ASSIGN 1 & 2 , control room		event	158
21			158
ASSIGN 1 & 2 , encoder	7		155
Assigning()			148
control changes	167		155
encoder	37		157
program changes	166		130
(Routing)			punch 156
			154
			148
			147
			147
			153
			146
			152
			in/out 151
			159
			undo 148
			update to end 146
			what's recorded 145
			AUTOMIX 7
			Automix 145
			AUTOMIX MAIN 146
			AUTOMIX MEMORY 150
			AUTOMIX 130
			Automix Store Undo preference 199
			AUTOPAN 229
			AUX 1-8 6
			AUX 7 , studio 20
			AUX 8 , studio 20
			AUX , encoder mode 7
			AUX FADER VIEW 111
			AUX PAN CH 84
			AUX SELECT
			6
			Pro Tools 174
			79
			AUX SEND CH 80
			Aux sends
			90
			automix 145
			channel 123
			compressors 97
			delay 101
			EQ 91
			fixed 79
			surround pan 105
			fader 106
			107
			inserts 95
			Input Channel pan 84
			Master 86
			88
			85
			112
			(pairing) 104
			84
			84
			2TR 56
			effect 53
			Input Channel 52
			Omni Out 55
			Slot Output 54
			pre/post fader 79
			scene 143

- 80
 102
 variable 79
 fader 109
 108
 82
 Aux sends 79
 AUX, fader 7
- B**
- Balance(), stereo out 75
 Bars, time signature map(,) 153
 BASS MANAGE 118
 Battery check() 200
 BATTERY CHECK 200
 BI-DIRECTIONAL, cascade setting (가) 51
 Bulk dump() 168
 BULK DUMP 168
 BUS 21
 BUS FADER VIEW 110
 Bus outs
 90
 automix 145
 bus to stereo 126
 123
 compressors 97
 delay 101
 EQ 91
 fader 106
 107
 inserts 95
 77
 88
 77
 112
 (pairing) 104
 2TR 56
 Input Channel 52
 Omni Out 55
 Slot Output 54
 66
 Stereo Out 78
 scene recall safe 143
 102
 fader 109
 108
 Bus outs 76
 BUS TO STEREO LIBRARY 126
 BUS TO STEREO 78
 Bypassing effects 134
- C**
- Cascade COMM Link preference 198
 CASCADE IN 51
 CASCADE IN 27
 CASCADE IN 271
 CASCADE OUT 51
 CASCADE OUT 27
 CASCADE OUT 271
 Cascading consoles(가) 49
 가 attenuation 51
 50
 49
 51
 가 51
 Category, channel status(,) 48
 CH DIRECT OUT DESTINATION 56
 CH EQUALIZER LIBRARY 129
 CH FADER EDIT 151
 CH FADER VIEW 109
 CH GATE EDIT 60
 CH PARAMETER VIEW 108
 CH SURROUND EDIT 70
 Channel display , Pro Tools 172
 Channel ID/Channel preference 198
 CHANNEL INSERTS 9
 CHANNEL LIBRARY 123
 Channel names, assigning 112
 Channel status monitor() 48
 CHANNEL STATUS MONITOR 48
 Channel strips
 5
 Pro Tools 173
 33
 user defined remote layer 190
 CHORUS 227
 CHORUS 5.1 246
 CLEAR 20
 Clear Edit Channel after REC preference 199
 Clearing library memories 122
 Clearing scene memories 141
 Combination effects 132
 Common channel functions chapter 87
 COMP 5.1 249
 COMP EDIT 98
 COMP indicator 12
 COMP LIBRARY 128
 COMP ON 12
 COMPAND 5.1 250
 Compander 97
 Compressors
- Input Channel 63
 Output Channel 100
 128
 96
 parameter table 264
 97
 97
 Confirmation messages() 32
 Contrast() control 10
 CONTROL CHANGE ASSIGN TABLE 167
 Control changes
 167
 165
 omni 165
 가 165
 168
 가 165
 CONTROL 27
 CONTROL port pin assignments 271
 Control room
 dimmer 115
 114
 2TR 56
 115
 CONTROL ROOM 20
 CONTROL ROOM LEVEL control 21
 CONTROL ROOM MONITOR OUT +4 dB (BAL) 25
 CONTROL ROOM SETUP 115
 Control
 3
 4
 Control 4
 Cooling fan() 28
 Copy Initial Fader preference 199
 Copy, channel status(,) 48
 Copying automix events 158
 Current scene 29
 Currently selected channel() 30
 30
 34
 Currently selected page() 30
 31
 30
 Cursor() 18

- D**
- Data entry section()
 - 18
 - Pro Tools 178
 - DAW()
 - MIDI 164
 - Pro Tools
 - DEC 18
 - DECAY control 12
 - DEL, title edit 32
 - DELAY 12
 - Delay effects 131
 - DELAY LCR 226
 - DELAY SCALE 101
 - DELAY+ER. 239
 - DELAY+REV 241
 - DELAY->ER. 240
 - DELAY->REV 242
 - Delaying channel signals 101
 - Deleting automix events 161
 - Digital I/O & cascading chapter 41
 - Dimensions 272
 - DIMMER 22
 - Dimmer , control room 115
 - Dimmer , talkback 121
 - DIO 7
 - DIO Warning preference 198
 - DIRECT 11
 - Direct outs
 - 56
 - 66
 - Display()
 - 10
 - confirmation messages()32
 - 29
 - parameter boxes 31
 - parameter windows 31
 - Pro Tools 171
 - DISPLAY ACCESS 7
 - DISPLAY ACCESS , SELECTED CHANNEL 12
 - Display Brightness() preference 198
 - DISPLAY
 - AUX SELECT 6
 - DYNAMICS 12
 - EFFECTS/PLUG-INS 9
 - ENCODER MODE 6
 - EQUALIZER 14
 - MACHINE CONTROL 17
 - MONITOR 20
 - PAN/SURROUND 13
 - ROUTING 11
 - SCENE MEMORY 16
 - USER DEFINED KEYS 16
 - DIST->DELAY 243
 - DISTORTION 232
 - DITHER 48
 - Dithering digital outputs() 48
 - DIV () 71
 - Double channel() 47
 - Double speed() 47
 - DUAL PITCH 231
 - Ducking(), input channels 60
 - Duplicating automix events 161
 - DYNA. FILTER 233
 - DYNA. FLANGE 234
 - DYNA. PHASER 234
 - Dynamic effects 132
 - DYNAMICS
 - 12
 - compressors 98
 - 60
 - Dynamics() Gates and Compressors
 - E**
 - EARLY REF. 223
 - ECHO 227
 - Edit buffer() 138
 - Edit indicators(indicator)
 - 30
 - SCENE MEMORY 138
 - Editing()
 - automix events 158
 - compressors 97
 - effects 133
 - 60
 - 122
 - 136
 - Scene Memory 141
 - EFFECT 1-4 INPUT/OUTPUT METER 88
 - EFFECT 14
 - EFFECT EDIT 133
 - EFFECT INPUT PATCH 53
 - EFFECT LIBRARY 125
 - Effects
 - 131
 - automix 145
 - 134
 - 133
 - features 2
 - 125
 - 88
 - 223
 - 53
 - Output Channel Insert In 55
 - 52
 - presets 131
 - 134
 - EFFECTS/PLUG-INS 1-4 9
 - EFFECTS/PLUG-INS
 - 9
 - effect 133
 - 136
 - Pro Tools 175
 - Emphasis, channel status(,) 48
 - ENCODER MODE ASSIGN 37
 - ENCODER MODE
 - 6
 - Pro Tools 174
 - 36
 - Encoder , selecting()36
 - Encoders
 - 5
 - 가 38
 - 37
 - automix punch in/out 156
 - Input Channel 67
 - 58
 - Pro Tools 173
 - encoder 36
 - Aux Send 80
 - Remote Layer 190
 - ENTER 18
 - EQ
 - automix 145
 - EQUALIZER EDIT 93
 - 2
 - 92
 - 92
 - Input Channel 62
 - Output Channel 94
 - 129
 - 91
 - Q 92
 - 91
 - EQ 14
 - EQ GAIN controls 14
 - EQ ON 14
 - EQUALIZER EDIT 93
 - EQUALIZER
 - 14
 - 92
 - Erasing automix events 158
 - EVENT COPY 158
 - EVENT EDIT 161
 - Event 158
 - Event , automix 161
 - Expander 97
 - F**
 - F1-F4
 - 10
 - effect 134
 - 137

- Pro Tools 171
 FADER 7
 Fader edit 148
 FADER MODE 7
 Pro Tools 174
 35
 Fader Touch Sensitivity preference 198
 Faders 6
 34
 automix punch in/out 156
 Aux Send Master 86
 Bus Out 77
 Fader Edit 148
 Input Channel 65
 Output Channel 106
 Input Channel 65
 on/off 151
 Pro Tools 174
 fader 35
 Aux Send 80
 STEREO 15
 Stereo Out 74
 in/out, Automix 151
 34
 Remote Layer 190
 Fading scenes 142
 Fast Meter Fall Time preference 198
 Features() 1
 FF 17
 Fixed , aux sends 79
 FLANGE 228
 FLANGE 5.1 247
 FOLLOW PAN 11
 Follow surround pan, aux sends 105
 Frame rate(),
 automix 152
 FREQUENCY controls 14
 FREQUENCY indicators 14
 FX 131
 G
 GAIN control, dynamics() 12
 GAIN controls, AD inputs(AD) 5
 Gang
 aux send pan 84
 input channel pan 68
 GATE indicator 12
 GATE LIBRARY 127
 GATE ON 12
 GATE REVERB 224
 GATE/COMP 12
 Gates 127
 264
- 60
 60
 GPI 195
 GPI SETUP 195
 GR
 compressors 99
 gates 61
 GRAB 13
 Grounding screw() 28
 GROUP 8
 Grouping 2
 input channel compressors 63
 input channel EQs 62
 input channel faders 65
 input channel 64
 output channel compressors 100
 output channel EQs 94
 output channel faders 106
 output channel 107
 Guitar effects 132
- H**
 HIGH EQ 91
 HIGHER SAMPLE RATE DATA TRANSFER FORMAT 47
 HIGH-MID EQ 91
 HOLD control 12
 Horizontal pairing() 104
 HQ. PITCH 230
- I**
 IEEE1394 45
 INC 18
 Individual
 aux send 84
 input channel pan 68
 Initial Data Nominal preference 198
 Initializing the 02R96(02R96) 201
 Input & output patching() 52
 INPUT A & B (BAL) connectors 24
 INPUT CH AUX VIEW 82
 INPUT CH DELAY 101
 INPUT CH FADE TIME 142
 INPUT CH FADER GROUP 65
 INPUT CH INSERT IN PATCH 53
 INPUT CH METER 87
 INPUT CH MUTE GROUP 64
 INPUT CH PAIR 104
 INPUT CH PAN 68
 INPUT CH ROUTING 66
- INPUT CH SURROUND 71
 INPUT CHANNEL NAME 112
 Input channels 90
 automix 145
 123
 compressors 97
 delay 101
 EQ 91
 60
 compressor 63
 EQ 62
 fader 65
 64
 inserts 95
 65
 87
 63
 112
 (pairing) 104
 67
 52
 e 59
 33
 102
 fader 109
 108
 Input channels 59
 INPUT COMP LINK 63
 INPUT EQUALIZER LINK 62
 INPUT PATCH 8
 INPUT PATCH LIBRARY 124
 INPUT PATCH 52
 Input patching() 52
 INPUT PORT NAME 57
 Input port naming() 57
 INS, title edit 32
 Insert assign/edit display mode, Pro Tools 172
 INSERT I/O +4dB (UNBAL) connectors 24
 INSERT ON/OFF 5
 Inserting automix events 161
 Inserts
 AD insert on/off 5
 96
 Input Channel Insert In 53
 effect input Insert Out
 53
 Omni Out Insert Out
 55
 Slot Output Insert Out
 54

- Output Channel Insert In 122
 55
 2TR 56
 95
 Installing I/O cards(I/O)
 46
 Internal effects & plug-ins 131
 INTERNAL EFFECTS 9
 Internal timecode source 152
 Internet, yamaha web site iii
 Inverse gang
 aux send pan 84
 input channel pan 68
 Inverting input channel phase(Input Channel) 59
- J**
 Joystick
 14
 panning input channels 67
 reverb 5.1 effect 245
 surround pan 70
 Joystick Auto Grab preference 198
- K**
 Keyin source 61
- L**
 L 13
 L/R Nominal Pan preference 197
 Last solo mode 103
 LAYER
 15
 33
 Layers()
 encoder 36
 fader 35
 33
 34
 Learn function()
 136
 Remote Layer 190
 Left Tab Scroll ()
 10
 LFE 71
 Libraries()
 122
 automix 130, 145
 bus to stereo 126
 123
 compressor 128
 effects 125
 EQ 129
 gate 127
 input patch 124
 output patch 124
 267
 168
 surround monitor 130
- 122
 Libraries 122
 LINK 13
 Link Capture & Locate Memory
 preference 199
 LISTEN, solo(LISTEN,) 103
 LOCATE MEMORY 1-8 17
 LOCATE MEMORY 194
 Long channel names(),
 assigning 112
 Long port names() 57
 LOW EQ 91
 LOW-MID EQ 91
- M**
 M. BAND DYNA. 248
 MACHINE CONFIGURATION
 192
 Machine control(control)
 192
 locator 194
 192
 scrub & shuttle 193
 locate 194
 193
 MACHINE CONTROL
 17
 LOCATE MEMORY 194
 Pro Tools 177
 Macintosh()
 Pro Tools 169
 MIDI 164
 USB 163
 MASTER 15
 Master layer, selecting(,) 33
 MASTER METER 88
 MASTER PARAMETER VIEW
 109
 MB02R96 peak meter
 bridge(MB02R96) 288
 Measures, time signature map(,) 153
 Merging automix events 158
 METER 8
 Meter display , Pro tools 173
 Meter Follow Layer preference 198
 METER port 27
 Meter, time signature map(,) 153
 Metering()
 effects 88
 input channels 87
 87
 output channels 88
 stereo out 89
 METERING POSITION 87
 MIDI
- 168
 Control Change 167
 275
 3
 I/O 163
 MIDI SETUP 165
 Parameter Change 167
 164
 27
 Program Change 166
 163
 MIDI 8
 MIDI 163
 MIDI clock(MIDI)
 Automix 152
 Tap tempo(), effects 134
 MIDI SETUP 165
 MIDI Warning preference 198
 MIDI/TO HOST SETUP
 164
 mini YGDAI(YGDAI).Slot
 Mix solo 103
 Mix Update Confirmation
 preference 199
 Mixdown, solo status(,) 102
 mLAN I/O card 45
 MMC. control
 MOD. DELAY 225
 MOD. FILTER 232
 Modulation- effects 132
 MONITOR ALIGNMENT 119
 MONITOR MATRIX 118
 MONITOR section 20
 Monitoring()
 Surround 117
 control room 114
 control room setup 115
 studio 115
 surround 116
 Monitoring & talkback(Talkback) 114
 MONO DELAY 224
 Motors on/off(on/off) 151
 Moving automix events 158
 MS decoding 105
 MTC TIME CODE INPUT
 connector 26
 MTC, 152
 MULTI FILTER 243
 Multi-effects 131
 Muting()
 automix 145
 aux sends 85
 bus outs 77
 input channels 64
 Output Channel 107

- input channels 63
stereo out 74
- N**
Naming channels 112
Naming library memories 122
Naming scene memories 140
NEVER LATCH TALKBACK 121
- O**
OCTA REVERB 245
Offline editing() 158
Offsetting automix timecode 146
OMNI OUT +4dB (BAL) 26
OMNI OUT PATCH 55
Omni outs
about 40
55
Direct Out 56
Omni, MIDI 165
OMS
Pro Tools 170
Pro Tools 169
ON
channel strips 6
Pro Tools 173
- STEREO 15
Remote Layer 190
- Operating basics()
29
Options iii
Order(), inserts/compressors
96
Oscillator 200
OSCILLATOR 200
Other functions 196
OUTPUT CHANNEL NAME
112
Output channels
90
compressors 97
delay 101
EQ 91
compressor 100
EQ 94
fader 106
107
inserts 95
123
88
112
(pairing) 104
33
102
fader 109
108
OUTPUT COMP LINK 100
- OUTPUT DELAY 101
OUTPUT EQUALIZER LINK
94
OUTPUT FADE TIME 142
OUTPUT FADER GROUP
106
OUTPUT INSERT IN PATCH
55
OUTPUT MUTE GROUP
107
OUTPUT PAIR 104
OUTPUT PATCH 8
OUTPUT PATCH LIBRARY
124
Output patching() 54
OUTPUT PORT NAME 57
Output port naming() 57
Overwrite parameters() 148
- P**
Package contents iii
PAD 5
Pages()
30
30
31
30
30
PAIR 8
Pairing channels()
2
pan modes 68
104
PAN 6
PAN control 13
PAN 13
PAN/SURROUND
13
surround pan 70
Input Channel 67
Panning()
automix 145
aux sends 84
input channels 67
modes 68
Parameter boxes()
31
Parameter Change 167
Parameter controls 1–4 9
Parameter Up/Down 9
Parameter wheel() 18
Parameter windows()
31
Patch Confirmation preference 197
Patch link() 141
- Patch select window()
57
Patching()
2TR 56
direct outs 56
effects inputs 53
2
input channel insert ins 53
input channels 52
input 124
52
omni outs 55
output channel insert ins 55
output 124
54
57
Scene Memory 141
slot outputs 54
surround monitor 120
encoder 58
Patterns() 71
PC
Pro Tools 169
MIDI 164
USB 163
Peak hold() 87
PEAK indicators 5
Phantom power switches() 5
Phase, input channel phase reverse()
, Input Channel
) 59
PHASE/INSERT
12
59
PHASER 229
Phone jack() 23
PHONES 19
PHONES LEVEL control 19
Phono connectors 23
Picture of control surface 4
PLAY 17
PLAY , automix 149
Playing back an automix(Automix) 157
PLUG-IN EDIT 136
PLUG-IN SETUP 135
Plug-ins()
135
135
136
MIDI 164
168
PLUG-INS 9
Port ID/Port preference 198
Port IDs(ID) 57
Port names() 57
Position(), compressors 96, 99

- Position(), inserts 95
 Post/pre. Pre/post
 Power cord() 29
 POWER 28
 Powering up the 02R96(02R96) 29
 Pre/post
 aux sends 79
 87
 103
 PREFERENCES1 197
 PREFERENCES2 198
 PREFERENCES3 199
 Presets()
 compressors 97
 effects 131
 EQ 91
 60
 Pro tools
 Automation 188
 insert/ 182
 automation 187
 AUX SELECT 174
 184
 channel display 172
 channel strips 173
 170
 169
 Send Pre/Post 180
 02R96 169
 169
 control 171
 178
 171
 183
 EFFECTS/PLUG-INS 175
 ENCODER MODE 174
 FADER MODE 174
 flip 181
 insert assign/edit display
 172
 MACHINE CONTROL
 177
 185
 Meter Display 173
 179
 Send 180
 edit 184
 OMS 169
 179
 Send 180
 fader, send panpot 184
 scrub shuttle 186
 179
 179
 Send 180
 Automation 187
 179
 trim 188
 USER DEFINED KEYS
 176
 Send 180
 185
 Pro tools remote layer 169
 PROGRAM CHANGE ASSIGN
 TABLE 166
 Program changes
 166
 165
 omni 165
 가 165
 168
 가 165
 Protecting automix
 memories(Automix
) 130
 Protecting scene memories 141
 Punch in/out, individual
 parameters()
 156
Q
 Q controls 14
 Q indicators 14
 Q, EQ 92
R
 R qjxms13
 RANGE control 12
 RATIO control 12
 RCA connectors 23
 Read-only memories 122
 Rear panel() 23
 REC 17
 RECALL 16
 Recall Confirmation preference 197
 RECALL SAFE 143
 Recalling()
 122
 scene memories 140
 Receive channel() 165
 Receive Full Frame Message
 preference 199
 Recording an automixRecording an
 automix(automix) 154
 Recording, solo statusRecording,
 solo status(,)
 102
 Relative , automix 148
 RELEASE control 12
 REMOTE button, DISPLAY
 ACCESS 8
 REMOTE , LAYER 15
 Remote control chapter 189
 Remote layer
 189
 189
 MIDI 164
 Pro Tools 169
 33
 REMOTE 189
 REMOTE , Pro Tools 171
 REMOTE , user defined 190,
 191
 Requesting bulk dump(
) 168
 Rerecording an automix(automix
) 154
 Return , automix 147
 REV+CHORUS 235
 REV+FLANGE 236
 REV+SYMPHO. 237
 REV->CHORUS 235
 REV->FLANGE 236
 REV->PAN 238
 REV->SYMPHO. 237
 REVERB 5.1 245
 Reverb effects 131
 REVERB HALL 223
 REVERB PLATE 223
 REVERB ROOM 223
 REVERB STAGE 223
 REVERSE GATE 224
 Reversing input channel
 phase(Input Channel
) 59
 REW 17
 Right Tab Scroll()
 10
 RING MOD. 232
 ROTARY 231
 ROUTING 1-8 11
 Routing input channels(Input
 Channel) 66
 ROUTING
 11
 66
S
 Safe channels, automix 151
 Safe channels, scene memories 143
 Safe channels, solo 102
 Sampling rate()
 2TR IN SRC 44
 30
 42
 SRC 47
 SAMPLING RATE CONVERTER
 44
 Scene down 16
 Scene MEM Auto Update preference
 198
 Scene memories
 138

- Scene Memory
 139
 automix 145
 cascading consoles 49
 current scene display 29
 138
 indicator 138
 fading scenes 142
 0 139
 MIDI program changes 166
 141
 140
 safe channels 143
 144
 140
 168
 139
 138
 Scene memories 138
 SCENE MEMORY 141
 SCENE MEMORY
 16
 16
 140
 SCENE MEMORY SORT
 144
 Scene up 16
 Scroll arrows, pages() 30
 SCRUB 18
 SEL
 input channels 5
 (pairing) 104
 Pro Tools 173
 34
 STEREO 34
 SEL MODE, solo() 103
 SELECTED CHANNEL 11
 Selecting()
 34
 34
 encoder 36
 encoder 35
 33
 31
 34
 SERIAL TO HOST 26
 MIDI 163
 152
 SET 17
 SET SPL85 117
 Setting levels()
 aux send masters 86
 aux sends 80
 bus outs 77
 input channels 65
 stereo out 74
 SETUP 7
 Shadow memories()
 139
 SHIFT LOCK, title edit 32
 Short port names()
 112
 Short port names()
 57
 Show Compact Size preference 199
 SHUTTLE 18
 SIGNAL indicators 5
 SLOT 21
 SLOT OUTPUT PATCH 54
 Slots
 28, 45
 가 45
 45
 48
 s 48
 47
 47
 46
 MIDI 163
 Direct Out 56
 52
 Output Channel Insert In
 55
 54
 152
 SMPTE TIME CODE INPUT
 connector 26
 Solo()
 가 49
 102
 safe channels 103
 103
 102
 103
 102
 SOLO
 6
 Pro Tools 173
 102
 SOLO indicator 20
 SOLO SETUP 102
 SOLO TRIM 103
 Soloing channels 102
 Sonic Spec 1
 Sorting scene memories(Scene
 Memory) 144
 SP02R96 wooden side
 panels(SP02R96
) 290
 SPEAKER SETUP 117
 260
 SRC
 STATUS, 102
 STEREO 2TR A1 21
 STEREO 2TR A2 21
 STEREO 2TR D1 21
 STEREO 2TR D2 21
 STEREO 2TR D3 21
 STEREO , control room 21
 STEREO , routing() 11
 STEREO , studio 20
 STEREO DELAY 225
 STEREO fader 15
 STEREO FADER VIEW 111
 Stereo link, compressors 99
 Stereo link, gates 61
 Stereo link, surround pan 71
 STEREO METER 89
 Stereo out
 90
 automix 145
 75
 123
 compressors 97
 delay 101
 EQ 91
 fader 106
 107
 inserts 95
 74
 88, 89
 74
 112
 2TR 56
 Omni Out 55
 Slot Output 54
 66
 scene recall safe 143
 fader 109
 108
 STEREO OUT +4 dB (BAL) 25
 STEREO OUT -10 dBV (UNBAL)
 25
 Stereo out 73
 STEREO 15
 STOP 17
 STOP , automix 149
 STORE 16
 Store Confirmation preference 197
 Storing()
 122
 scene memories 140
 STUDIO LEVEL control 19
 Studio manager 164
 STUDIO MONITOR OUT +4 dB
 (BAL) 24
 Studio 115
 SURROUND MODE SELECT
 69
 SURROUND MONITOR LEVEL
 control 21
 SURROUND MONITOR LIBRARY
 130

- SURROUND MONITOR 116
- SURROUND MONITOR PATCH 120
- SURROUND MONITOR SETUP 117
- Surround 116
- 117
- 130
- slot input 120
- Omni Out 55
- Slot Output 54
- Surround pan
- automix 145
- aux send pan 105
- 71
- 70
- 3
- 70
- 69
- 69
- Switching on the 02R96(02R96) 29
- SYMPHO 5.1 247
- SYMPHONIC 228
- T**
- Tabs, 30
- Takeover, automix 147
- Talkback
- AD inputs 121
- dimmer 121
- mic 19
- 121
- 121
- TALKBACK 22
- TALKBACK LEVEL control 19
- TALKBACK SETUP 121
- Tascam I/O 45
- TC Drop Warning preference 198
- Tempo(), effects 134
- Terminating wordclocks() 43
- THRESHOLD control 12
- TIME REFERENCE 152
- Time signature map(), automix 153
- TIME SIGNATURE 153
- Timecode()
- automix 152
- , Automix 161
- , locate 194
- , 194
- 146
- offset 146
- Title edit 32
- Titling library memories 122
- Titling scene memories 140
- TO END 146
- Touch Sense Control preference 199
- Touch sense in/out(in/out), automix 151
- Touch sense select 34
- Touch Sense Select preference 199
- Transmit channel() 165
- Transmitting bulk dump() 168
- Transport().
- TREMOLO 230
- Trimming automix events 159
- Turning channels on or off. See Muting(/ .)
- Turning on the 02R96(02R96) 29
- Type I/II EQ 93
- U**
- Undo automix 148
- Undo scene memory 139
- UPDATE 146
- USB TO HOST 26
- 163
- MIDI 163
- 152
- USER DEFINED KEY ASSIGN 196
- USER DEFINED KEYS 1–16 16
- USER DEFINED KEYS
- 16
- Pro Tools 176
- 196
- User defined layer()
- automix 145
- 190
- 168
- 191
- User defined plug-ins()
- 135
- automix 145
- 135
- 136
- 168
- UTILITY 8
- V**
- Variable, aux sends 79
- Vertical pairing()
- 104
- VIEW 8
- Viewing channel fader settings
- input channel(fader) 109
- Output Channel 109
- Viewing channel parameter settings
- input channels(fader) 108
- Output Channel 108
- W**
- Waves Y56K plug-ins effects card 135
- Web site iii
- Welcome () 1
- Windows()
- Pro Tools 169
- MIDI 164
- USB 163
- WORD CLOCK 75Ω ON/OFF 27
- WORD CLOCK IN connector 27
- WORD CLOCK OUT connector 27
- WORD CLOCK SELECT 42
- Wordclocks()
- 41
- 41
- 42
- 43
- X**
- XLR connector 23
- Y**
- Y56K effect 135
- Yamaha web site iii
- YGDAL. Slots

...			
	1-16 1-16	1-16 1-16	
	X X *****	OMNI off/OMNI on X X	
	X *****	0-127 X	
	X X	O O	Effect Control
	X X	X X	
(Pitch Bend)	X	X	
Control Change 0-95,102-119	O	O	(Assign)
Prog Change : (True)	0-127 *****	0-127 0-99	(Assign)
	O	O	*1
: : :	X X X	O X X	Automix
: :	X X	O O	Automix, Effect Control
Aux : ON/OFF : OFF : :Reset	X X X X	X X O O	
	MTC 가 .(MTC IN & MIDI IN) *1: Bulk Dump/Request, Parameter Change/Request, MMC. MIDI 가 .		

1: OMNI ON, POLY
3: OMNI OFF, POLY

2: OMNI ON, MONO
4: OMNI OFF, MONO

O:
X:



야마하 뮤직 코리아(주)

서울시 영등포구 여의도동 23-8 동양증권빌딩 16층
TEL: 02)3770-0651 FAX: 02) 3770-0666

서비스 문의처

본사: 02)3770-0651	대전: 042)635-0662
서울: 02)892-0661	광주: 062)225-0661
용산: 02)790-0617	제주: 064)724-0660
두일: 02)702-0664~5	전주: 063)282-0661
강릉: 033)643-6638	울산: 052)293-9228
부산: 051)554-6610	청주: 043)221-6602
대구: 053)653-0662	