

Surround sound TV stand

Meuble TV surround

YRS-700

OWNER'S MANUAL

MODE D'EMPLOI

BEDIENUNGSANLEITUNG

BRUKSANVISNING


MANUALE DI ISTRUZIONI


MANUAL DE INSTRUCCIONES

GEBRUIKSAANWIJZING

ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this unit in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances.
Rear: 5 cm (2 in)
Sides: 5 cm (2 in)
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cable disconnected from a wall outlet or this unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to read the “TROUBLESHOOTING” section on common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press  to set this unit to the standby mode, and disconnect the AC power plug from the wall outlet.
- 18 Install this unit near the AC outlet and where the AC power plug can be reached easily.
- 19 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like. When you dispose of batteries, follow your regional regulations.
- 20 Excessive sound pressure from earphones and headphones can cause hearing loss.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by . This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

FOR U.K. CUSTOMERS

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below. Note that the plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

IMPORTANT

THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Make sure that neither core is connected to the earth terminal of the three pin plug.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

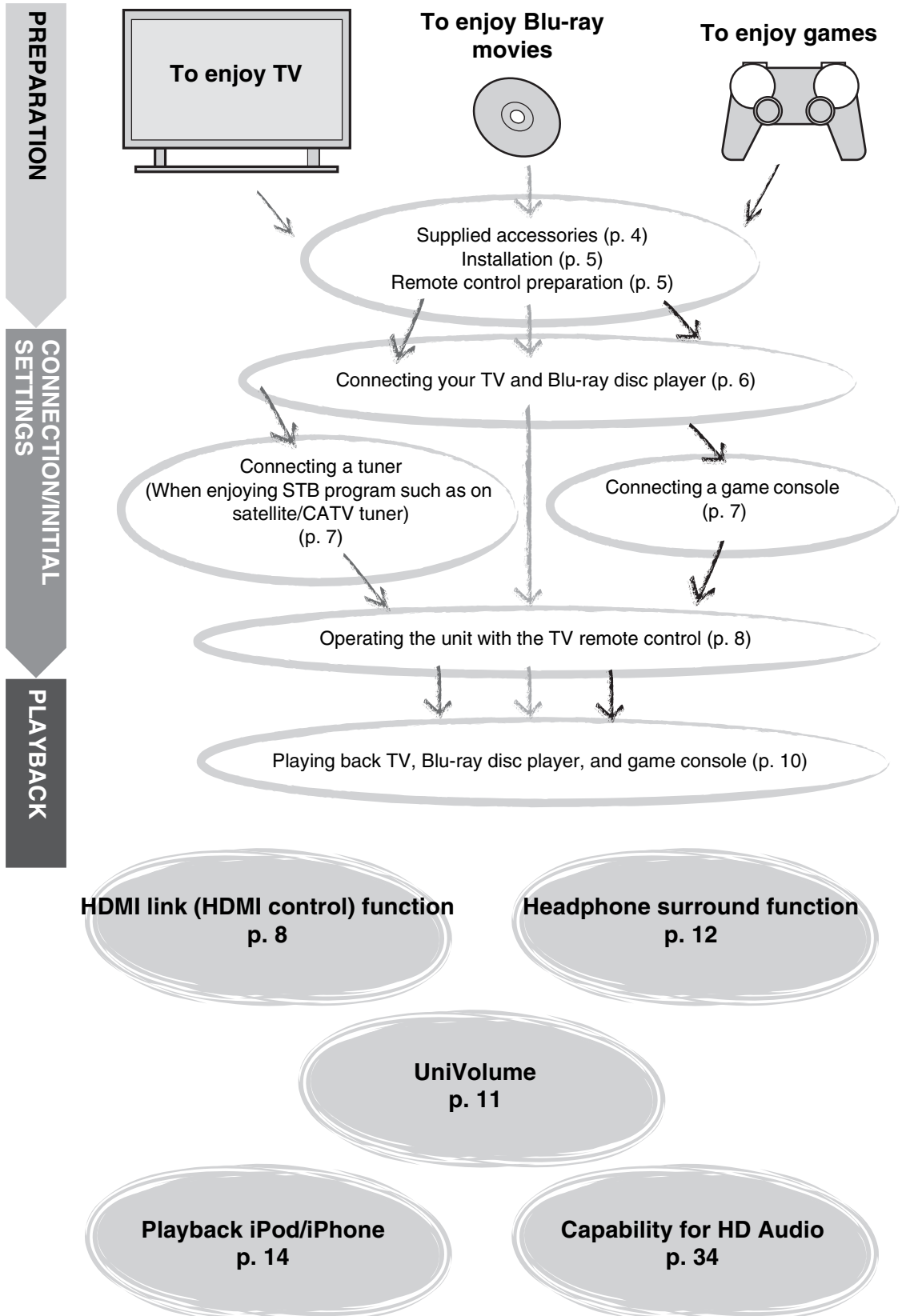
Notes

- This unit's speakers use magnets. Do not place items that are sensitive to magnetism, such as CRT-type TVs, clocks, credit cards, floppy disks, etc., on top of the rack.
- When the unit is positioned close to a CRT-type TV, picture or sound distortion may occur. In this case, move the TV away from the unit.

■ Notes on remote controls and batteries

- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following places:
 - places of high humidity, such as near a bath
 - places of high temperatures, such as near a heater or a stove
 - places of extremely low temperatures
 - dusty places
- Do not expose the remote control sensor of this unit to direct sunlight or lighting such as inverted fluorescent lamps.
- If the batteries grow old, the effective operation range of the remote control decreases considerably. If this happens, replace the batteries with two new ones as soon as possible.
- Change all of the batteries if you notice the following conditions: the operation range of the remote control decreases or the transmission indicator does not light up or becomes dim.
- Do not use old batteries together with new ones.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- Exhausted batteries may leak. If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste. Dispose of them correctly in accordance with your local regulations.

What you can do with this unit



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About this manual

- In this manual, operations that can be performed using either the front panel buttons or the remote control are explained using the remote control.
-  indicates a tip for your operation.
- Notes contain important information and operating instructions.
- This manual is produced prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.
- The alphabet mark (such as **A**) indicates the remote control key(s) indicated on the figure on the left page.

Getting started

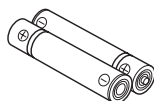
Supplied accessories

Before assembly and connecting, make sure you have received all of the following items.¹⁾

Remote control



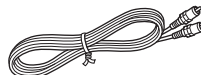
Batteries (x 2)
(AAA, R04, UM-4)



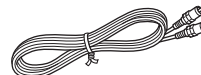
Optical cable
(1.5 m (4.9 ft))



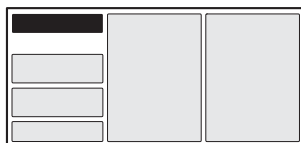
Digital audio pin cable
(1.5 m (4.9 ft))



Video pin cable²⁾
(1.5 m (4.9 ft))



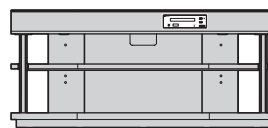
Install Manual



Owner's Manual
(this manual)



Main unit



Assembly is required before using this unit. Make sure all of the following items are included in the package, as they are all necessary to complete assembly. Refer to the Install Manual for installation.

- Main unit
- Shelf
- Bottom panel
- Glass top panel
- Pins (× 6)
- Large screws M5 × 30 mm (× 6)
- Fasteners (× 5)
- Rear panels (left and right)
- Support posts (× 2)
- Center rear panel
- Brackets (× 2)
- Small screws M4 × 10 mm (× 12)
- Washers (× 6)

1) ☹️

Depending on the connection, you may not need all of the supplied cables.

2) ☹️

This cable is used when playing back iPod/iPhone video. Refer to "Playing back iPod/iPhone (p. 14)".

Installation

Place the unit in the appropriate position after assembly. Refer to the supplied Install Manual for assembly. Refer to "Notes on installation" below and place the unit correctly in the safe place.

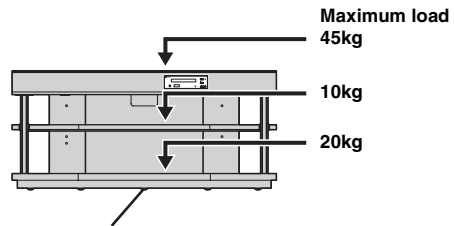
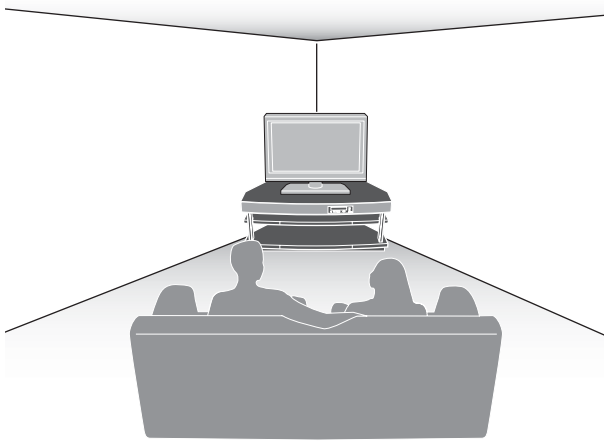
Notes on installation

- Install your TV in accordance with the manufacturer's instructions to prevent it from toppling over.
- This unit's speakers use magnets. Do not place items that are sensitive to magnetism, such as clocks, credit cards, floppy disks, etc., on top of the rack.
- When the unit is positioned close to a CRT-type TV, picture or sound distortion may occur.

Caution: Handling the tempered glass

The top glass panel is constructed of glass that has been tempered for strength and safety. In addition, a safety film has been applied to the tempered glass to offer additional protection against injuries that may be caused by shattering glass. However, if you handle the glass inappropriately, the glass might break and glass fragments might fly, causing injuries. Be sure to follow the precautions listed below:

- Do not allow any strong impacts to the glass (for example, do not allow thrown objects to strike the glass).
- Do not allow sharp objects to contact the glass.
- If the tempered glass has been scratched, it might break unexpectedly. If you see scratches, replace the glass immediately.
- Do not remove the glass caution sticker.



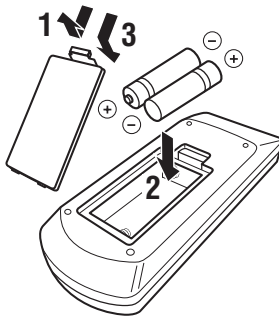
Interior slide sheet

An interior slide sheet is attached to the bottom of the unit, allowing you to move the unit into position easily. To prevent damage to the floor, clean the floor of dust and rubbish before moving the unit.

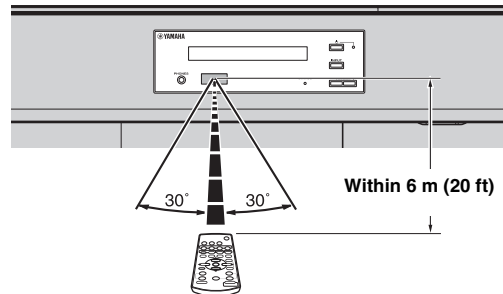
Remote control preparation

Before installing batteries or using the remote control, make sure that you read precautions on the remote control and batteries in "CAUTION: READ THIS BEFORE OPERATING YOUR UNIT."

Installing the batteries



Operation range



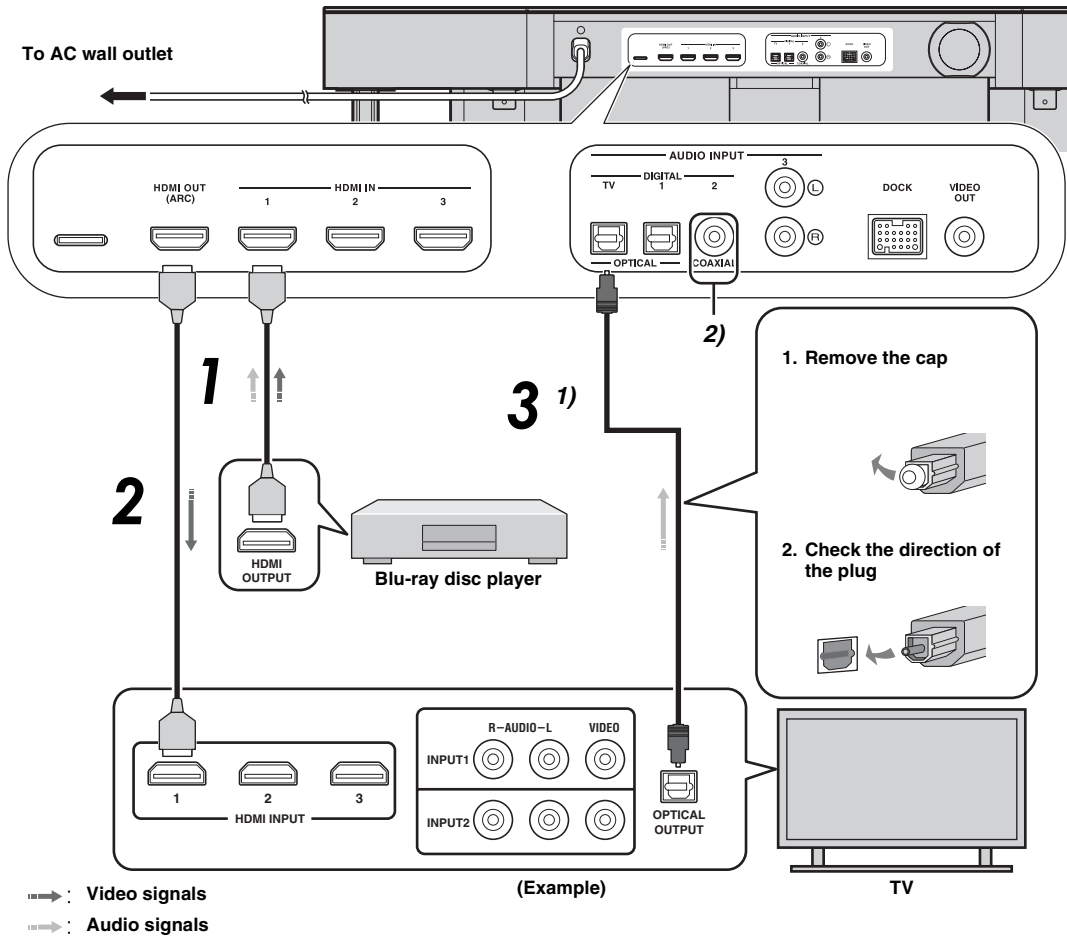
Connections

- Do not connect the power cable until all connections are completed.
- Do not use excessive force when inserting the cable plug. Doing so may damage the cable plug and/or terminal.

TV and Blu-ray disc player connection

For the cable connection, follow the orders below.

- 1 HDMI cable (optional)**
Input the digital audio/video signals of the Blu-ray disc player to this unit.
- 2 HDMI cable (optional)**
The digital video of the Blu-ray disc is reflected on TV.
- 3 Optical cable (supplied)**
Play back digital sounds of TV on this unit.



1) Audio return channel (ARC) supported TV

- Connect HDMI cable to audio return channel supported terminal (the terminal with "ARC" indicated) on TV. In this case, you do not need to connect optical cable.
- Activate the HDMI control function of this unit (☞p. 21).

What is audio return channel (ARC)?

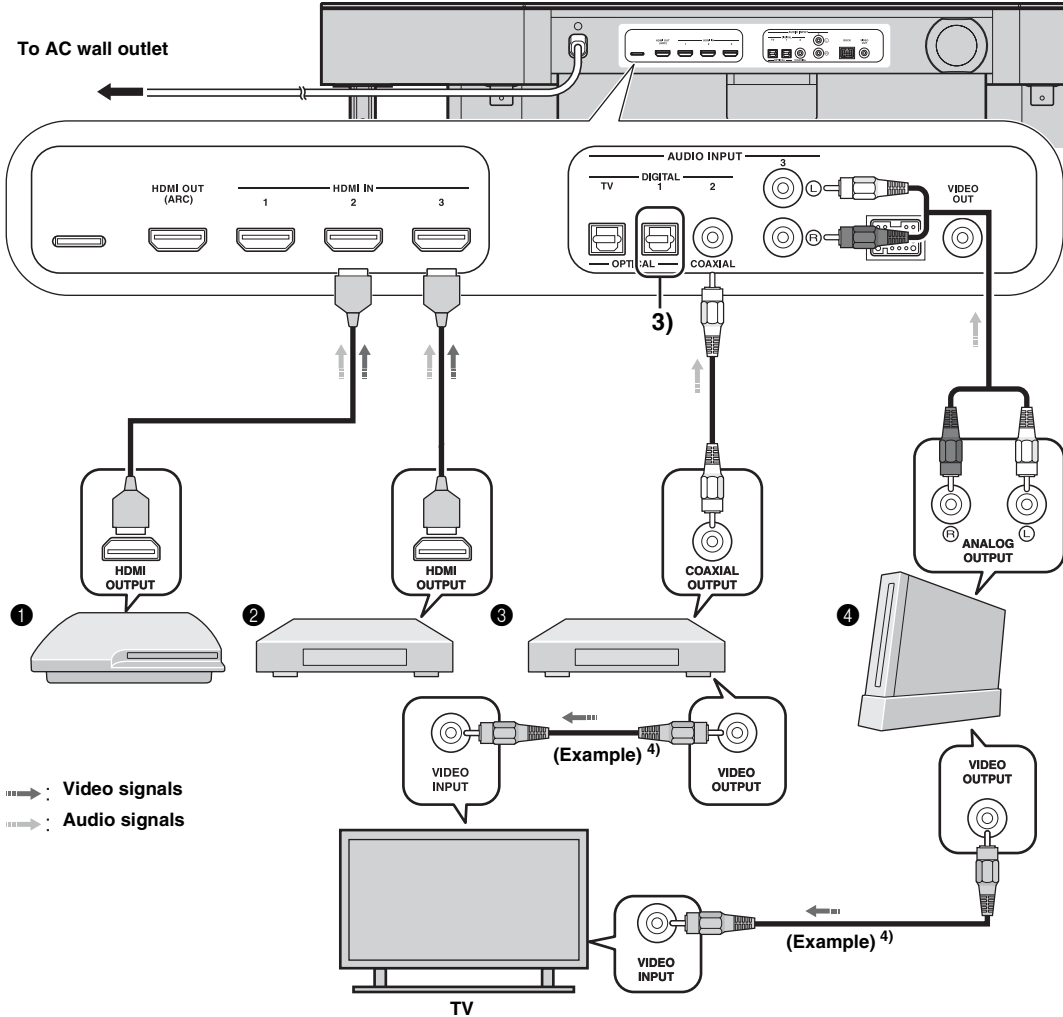
A function transmits digital audio signal output from TV to this unit through a HDMI cable. By this function, a digital audio pin cable to connect TV and this unit is not needed.

2)

Depending on the setting, HDMI for video signal, optical or coaxial digital audio or analog audio for audio signal can be selected. Refer to "Input assignment (☞p. 21)".

Game console or tuner connection

Additional external device (example)	Connecting cable
1 HDMI supported game console	HDMI cable (optional)
2 Satellite/cable TV (HDMI supported)	HDMI cable (optional)
3 Satellite/cable TV (HDMI not supported)	Digital audio pin cable (supplied) ⁴⁾
4 HDMI not supported game console	Analog audio stereo pin cable (optional) ⁴⁾



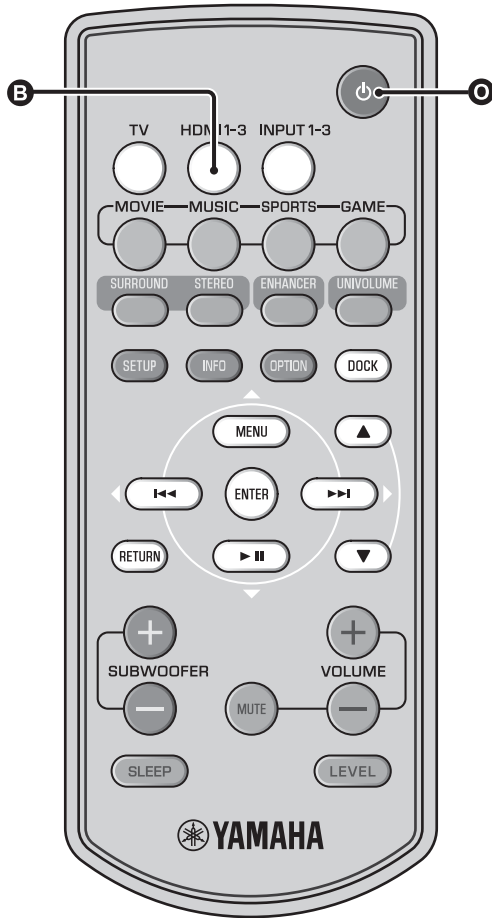
3)

The additional devices having an optical digital output jack, connect to the optical digital input jack of this unit with an optical cable.

4)

To connect a game console or tuner to TV, you need extra video pin cables (optional).

Initial settings

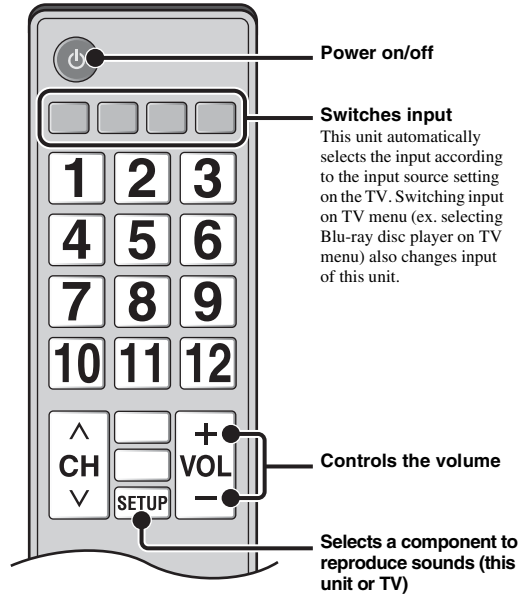


Operating the unit with the TV remote control

■ What is the HDMI control function?

You can use the TV remote control to operate this unit if your TV supports the HDMI control function (ex. REGZA Link) and is connected to this unit's HDMI OUT (ARC) jack. ¹⁾

Remote control of TV (Example)



1)

- Even if your TV supports the HDMI control function, some functions may not be available. For details, refer to the manual supplied with your TV.
- If you use HDMI to connect this unit to a device such as a Blu-ray disc player that supports HDMI control, you can control that device using the HDMI control function.
- We suggest that you use products (TV, Blu-ray disc/DVD player, etc.) from the same manufacturer.

Setting the HDMI control function

1 Turn on all components connected to this unit with HDMI.

2 Check all components connected with HDMI and enable the HDMI control function on each component.

For this unit, set “HDMI Ctrl” to “On” (☞p. 21). ²⁾
For external components, refer to the manual supplied with each component. ³⁾

3 Turn off the TV and then turn on it again.

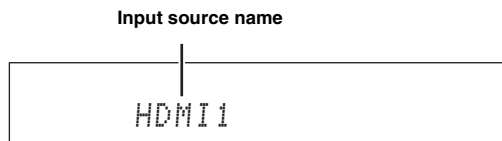
Registering HDMI components to TV ⁴⁾

1 Select this unit as the input source for the TV.

2 Turn on the HDMI control function supported component (example: Blu-ray disc player) connected to this unit.

3 Select the input source of this unit to Blu-ray disc player and check whether the image in the player is correctly displayed or not.

When connecting Blu-ray disc player with HDMI 1 jack, press **B** input selector key once to show the following diagram.



4 Check if the HDMI control function works (turn on this unit or adjust the volume level using the remote control of the TV).

If the HDMI control function is not working

Check the following:

- The TV is connected to the HDMI OUT (ARC) jack of this unit.
- “HDMI Ctrl” (☞p. 21) is set to “On” in setup menu.
- The HDMI control function is enabled on the TV. (Also check the relative settings such as power interlock function or speaker priority.)

The HDMI control function is not working even checking the above,

- Turn off this unit and the TV, and then turn them back on again.
- Unplug the power cables of the TV and this unit, and plug them in again.
- After selecting INPUT1, INPUT2, INPUT3 or DOCK, change the input of TV and the one of this unit to the same input.

Changing the connection method and connected components

When the connected components and jacks are changed, reset this unit with following procedures.

1 Turn off the HDMI control function of the TV and player, turn off all connected devices, and change the connections.

2 Perform the step 1 to 3 of “Setting the HDMI control function” (☞p. 9).

2) 

- The default setting is “Off”.

When “HDMI Ctrl” is set to “On” in setup menu,

- Even you press **⏻** **⏪** key, the power does not completely turned off and the signal outputs from the HDMI IN jack to HDMI OUT (ARC) jack.
- Before pressing **⏻** **⏪** key, select desired input sources connected to HDMI IN (1 to 3).
- According to the TV, the TV operation such as changing the channel may change the setting of surround modes of this unit.

3) 

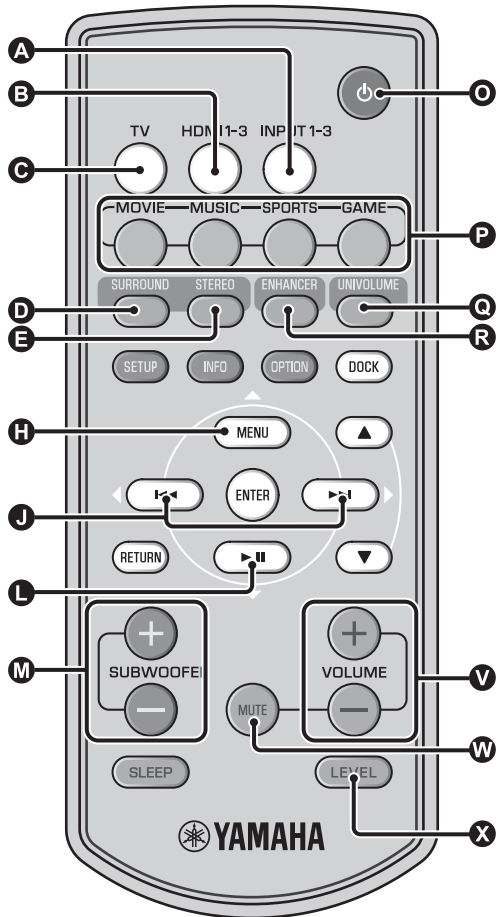
The example of TV settings

- From a setup menu on your TV, select “Link setting” → “HDMI control setting” (example), then set a setting such as “HDMI control function” to “On” (example).
- Setting such as “Speaker priority” should be set to “AV amplifier”.

4) 

For some HDMI components, you only need to set the HDMI control function. Registering HDMI components to TV is not required in this case.

Playback features

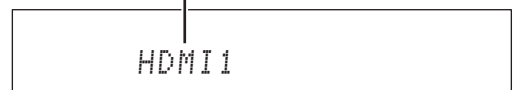


Basic operation for playback

- 1 Press **O** key to turn on this unit.
- 2 Turn on components (TV, Blu-ray disc player, etc.) connected to this unit.
- 3 Select a component you want to listen to by pressing the input selector key (**A**, **B**, **C**) corresponding to the connection of external components.

For example, when playing back a Blu-ray disc player connected to HDMI IN 1 jack, select HDMI1 by pressing input selector key **B** as shown below.

Input source name



- 4 Play back component selected in step 3.
- 5 Press **V** VOLUME +/- key to adjust the volume. ^{1) 2) 3)}
- 6 Select surround mode or stereo mode and set your sound preferences. (p. 11)

Press **O** key to turn this unit to standby mode.

1)

When audio is output from both TV speaker and this unit, mute the TV sound.

2)

To mute the sound

Press **W** MUTE key. While the mute function is activated, the VOL indicator on the front panel display flashes. To resume the volume, press **W** MUTE key again or press **V** VOLUME +/- key.

3) Note

When sound input to HDMI IN is output from the TV, the volume level does not change even if you press **V** VOLUME +/- key or **W** MUTE key.

Enjoying sound with your preference

Surround playback

Playback surround sounds using Yamaha's exclusive AIR SURROUND XTREME.

1 Press **Ⓢ** SURROUND key to switch to surround mode.

2 Press one of the surround mode keys (**Ⓜ**).⁴⁾

MOVIE: For movies

MUSIC: For music

SPORTS: For sports and news

GAME: For video games

Stereo playback

An extended sound is achieved for a 2 channel source.

Press **Ⓢ** STEREO key to switch to stereo mode.

Each time you press **Ⓢ** STEREO key, the function is turned on (Extended Stereo) and off (Stereo) alternately.

Stereo: Reproduces the stereo sound without any effect.

Extended Stereo: Reproduces a wider stereo sound image.

Playing back digitally compressed formats (MP3, WMA, etc.) with enriched sound (Compressed Music Enhancer)

Play back digitally compressed format such as MP3 and WMA emphasizing bass and treble extended dynamically.

Press **Ⓢ** ENHANCER key to turn the function on/off.⁵⁾

4) 

This unit automatically memorizes the settings assigned to each input source. When you select another input, the unit automatically recalls the last settings for the selected input.

5) 

- The default setting is "On" for DOCK input, and "Off" for other inputs.
- Compressed Music Enhancer does not work when the source is following digital audio signal,
 - Dolby TrueHD, DTS-HD Master Audio, etc.
 - Signal that sampling rate is more than 48 kHz.

6) 

- The default setting is "Off".
- To set the UniVolume to "Off", press **Ⓢ** UNIVOLUME key.
- We recommend turning off the UniVolume function during playback of music.

Automatic volume level adjustment (UniVolume)

While watching the TV, compensate the excessive volume differences to make it easier to hear during the following cases.

- When switching the channel
- When a TV program changed to commercial
- When one program is finished and another program started

Press **Ⓢ** UNIVOLUME key to turn the function on/off.⁶⁾

Volume balance adjustment

Use this feature to adjust the volume balance for each channel during playback.⁷⁾

1 Press **Ⓢ** LEVEL key.

2 Press **Ⓢ** **⬆**/**⬇** key to select adjustable channel from the followings.

Center Lv: Center

SurLR Lv: Surround left/right

SWFR Lv: Subwoofer

3 Press **Ⓢ** **⬅**/**➡** key to adjust the volume.⁸⁾

Adjustable range: -10.0 dB to +10.0 dB

4 Press **Ⓢ** LEVEL key to exit from the menu.

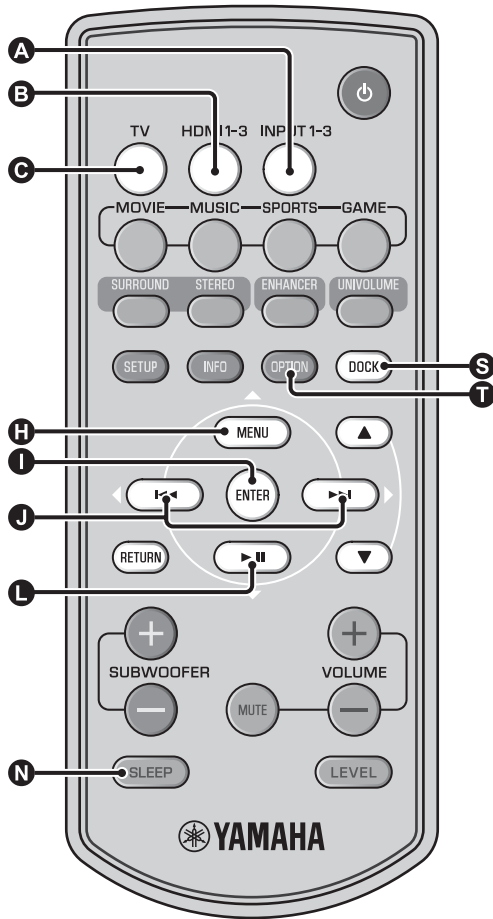
7) 

Refer to "Volume level of each channel with test tones (p. 20)" when adjusting the test sound.

8) 

Example of volume balance

- If you have problems hearing words: Select Center Lv (center) to increase the level.
- When the sound does not seem like surround sound: Select SurLR Lv (Surround) to increase the level.
- The volume of subwoofer also can be adjusted by using **Ⓢ** SUBWOOFER +/- key.



Using useful features

Listening with headphones

Insert a headphone plug to the PHONES jack (p. 28) of this unit. ¹⁾

The surround sound using headphones

With newly-developed 7.1 ch headphone surround technology, you can enjoy surround and stereo sound using a headphone same as speaker. (p. 11)

Sleep timer/auto power down function

Use this feature to automatically set this unit to the standby mode after a specified period of time.

Press **N** SLEEP key repeatedly.

Switching the time it takes to switch to standby mode. The SLEEP indicator (p. 29) flashes in the front panel display. The SLEEP indicator in the front panel display lights up and the sleep timer is set. ²⁾

Selectable item: Sleep 120 min., Sleep 90 min., Sleep 60 min., Sleep 30 min., AutoPowerDown, Off

Auto power down function ³⁾

When AutoPowerDown is set, the unit is turned to standby mode automatically after 10 minutes from the selected input source is turned off or in standby mode. This function is useful to prevent you from forgetting to turn off the unit.

1)

- The headphone volume, tone control, and LFE level can be set separately with speaker setting.
- If too much bass is heard while playing back 5.1 or 7.1 channels containing LFE channel (0.1ch), it may be improved by decreasing the LFE level. (p. 19)

2)

- The sleep timer setting is canceled if this unit is set to the standby mode or "Off" is selected.

- When AutoPowerDown is set, SLEEP indicator does not light up during playback.

3)

- If the unit is operated during the 10 minutes before entering standby mode, the unit does not enter standby mode until 10 minutes after the latest operation.
- AutoPowerDown cannot be selected when:
 - AUDIO INPUT (INPUT3) or DOCK is selected.
 - HDMI1-3 is selected and HDMI control function is on.

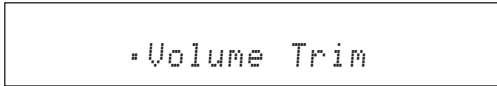
Settings for each input source (Option menu)

Set according to each input (TV/HDMI1-3/INPUT1-3/DOCK). Available menu items vary depending on the selected input.

1 Press input key (A, B, C, S) to select the input you want to change the setting.

2 Press **OPTION** key.

The option menu is displayed on the front panel display.



3 Select the items by pressing **H** Δ /**L** ∇ key, then press **ENTER** key.

4 Change setting value by pressing **J** \langle /**R** \rangle key.

5 To exit the option menu, press **OPTION** key.

Option menu items

The following menu items are provided for each input.

Input source	Menu items
HDMI1-3	Volume Trim, Decoder Mode, Signal Info
TV	
INPUT1-3	
DOCK	Volume Trim, Connect, Disconnect, Pairing, Interlock ⁴⁾

The option menu items are listed below. These settings are applied to the currently selected input source. The default settings are marked with “*”.

■ Adjusting input level of each jack (Volume Trim)

Adjust the input level for each jack to compensate for variations in volume between different input devices.

Adjustable range: -6.0 dB to 0.0 dB* to +6.0 dB

■ Switching the audio signal to play back (Decoder Mode)

Select digital audio signals for playback.

Selectable item: Auto*, DTS

Auto: This unit automatically selects the audio signal for playback. Normally select this mode.

DTS: This unit plays back only DTS signal.

■ Displaying the input signal information (Signal Info)

Press **H** Δ /**L** ∇ to change the following informations.

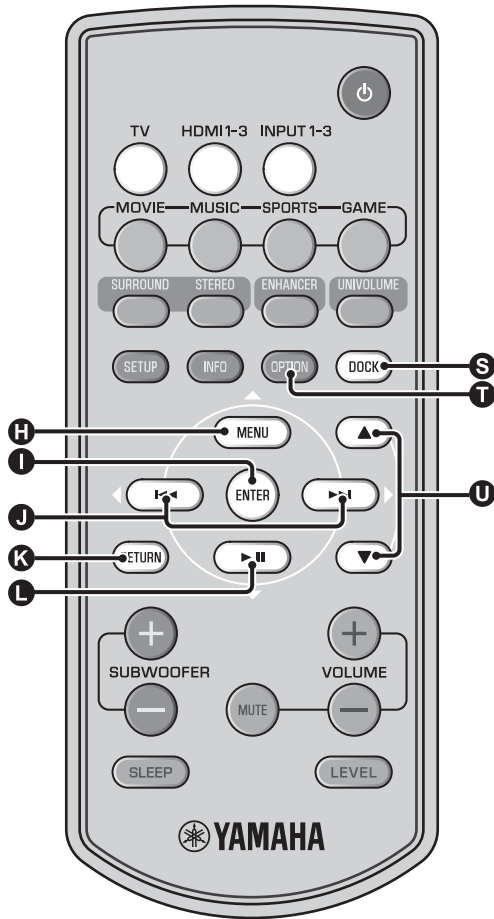
Format	Digital audio format
Channel	The number of channels included in input signal (front/surround/LFE (low frequency sound effects)) Display example: [3/2/0.1] → Front 3ch, Surround 2ch, LFE for input signal ⁵⁾
Sampling	Sampling frequency for digital input signal
Bitrate	Bitrate per second of input signal
HDMI In	HDMI video signal resolution
HDMI Message	When error occurs with HDMI (displayed only when error is occurred.)

4)

For details, on Interlock, refer to “Playing back iPod/iPhone (p. 14)”. For details on Connect, Disconnect and Pairing, refer to “Playing back Bluetooth components (p. 16)”.

5)

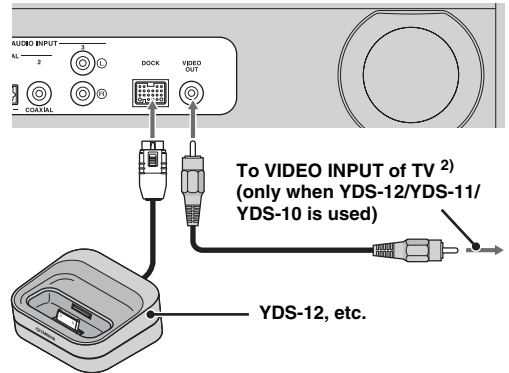
If the input signal includes channels that cannot be displayed in the format shown in the display example, the total number of channels will be displayed, as in “5.1ch”.



Playing back iPod/iPhone

You can play music stored in iPod/iPhone connected to Yamaha Universal Dock for iPod (optional YDS-12, etc.) or Wireless System for iPod/iPhone (optional YID-W10).

1 Insert the iPod/iPhone into the Yamaha Universal Dock for iPod or Wireless System for iPod/iPhone connected to the DOCK terminal. ¹⁾



Place it as far as possible from this unit to avoid the noise.

2 Playback iPod/iPhone by selecting dock input by pressing **S DOCK** key. ³⁾

1)

- Connect when this unit is in standby mode.
- For details on how to connect and set up the YDS-12 and YID-W10, refer to manuals supplied with them.

2)

When using YDS-12, YDS-11, or YDS-10 with the video pin cable (supplied) to connect the VIDEO OUT jack of this unit to the VIDEO INPUT jack of the TV, you can display iPod/iPhone video on the TV.

3)

- Some features may not be available depending on the model or the software version of your iPod/iPhone.
- For details about the messages displayed on the front panel display of connected iPod/iPhone, refer to "iPod/iPhone (p. 26)" in "Troubleshooting".
- Be sure to set the volume to minimum before docking or removing your iPod/iPhone.
- To set the playback volume higher than the maximum volume of the iPod/iPhone, use this unit's remote control to control the volume.

When using Yamaha Universal Dock for iPod (optional YDS-12, etc.) ⁴⁾

After setting the iPod/iPhone to the dock, you can use the remote control of this unit for playback operations. You can also display iPod/iPhone video on the TV.

H I J K L: Controls iPod's menu.

U: Controls click wheel.

iPod/iPhone supported by Universal Dock for iPod (YDS-12/YDS-11/YDS-10):

(As of September 2010)

- iPod touch, iPod mini, iPod (4th and 5th generations), iPod Classic, iPod nano, iPhone, iPhone 3G, iPhone 3GS
- iPhones are not compatible with YDS-11/YDS-10.

When using Wireless System for iPod (optional YID-W10) ⁵⁾

After connecting the receiver to this unit and setting the iPod/iPhone to the transmitter, you can use the connected iPod/iPhone as a remote control while playing back music.

iPod/iPhone supported by Wireless System for iPod (YID-W10):

(As of September 2010)

iPod touch, iPod mini, iPod (5th generation), iPod Classic, iPod nano, iPhone, iPhone 3G, iPhone 3GS

Link with this unit (Interlock mode) ⁶⁾

When using YID-W10, You can use functions following for iPod/iPhone when "Interlock" is set to "On" in option menu (p. 13).

- When playback starts on iPod/iPhone, this unit is turned on and DOCK (iPod) is selected as source automatically.
- This unit turns to standby mode automatically when the playback is stopped or after a while iPod/iPhone is removed from the transmitter.

4)

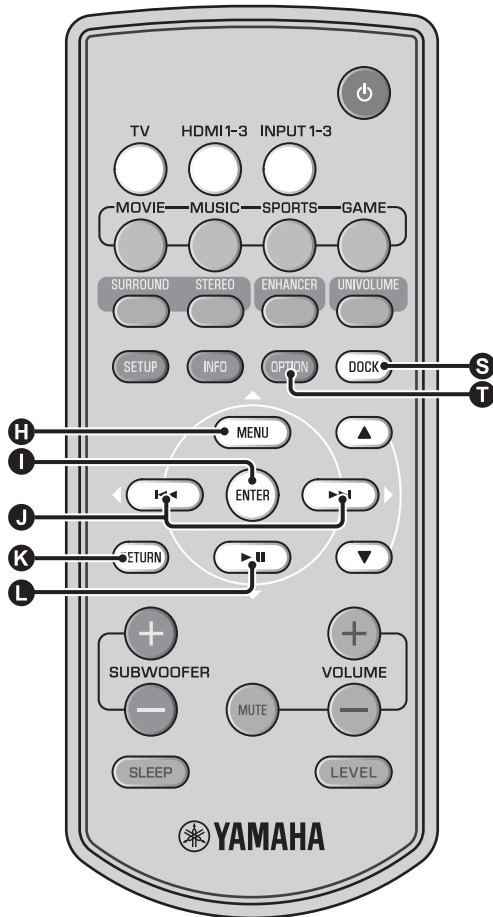
This unit charges the battery of an iPod/iPhone stationed in the Yamaha Universal Dock for iPod connected to the DOCK terminal even when this unit is in standby mode. "Charging" appears in the front panel display.

5)

When YID-W10 is connected, and the "Interlock" is set to "On", it charges even in standby mode.

6)

This function works with ring tone and sound of application. When the iPhone is set to silent mode, this unit does not turn on with the ring tone.



Playing back Bluetooth components

Playback music stored in the Bluetooth components (portable audio players, Bluetooth-enabled computers, etc.) connected to the Bluetooth Wireless Audio Receiver.

Pairing

About "Pairing"

It is the operation of registering a component for communications. Pairing must be performed before using a Bluetooth component with the Yamaha Bluetooth Wireless Audio Receiver connected to the system for the first time, or if the registered pairing data has been deleted.

To ensure security, a time limit of 8 minutes is set for the pairing operation. Please read and fully understand all the instructions before starting.

1 As described in step 1 (p. 14) of "Playing back iPod/iPhone", connect the Bluetooth Wireless Audio Receiver (optional YBA-10) to DOCK terminal. ¹⁾

2 Press **S** DOCK key to set the input to DOCK.

3 Turn on the Bluetooth component you want to pair with, and then enter pairing state. ²⁾

4 Press **T** OPTION key.

Option menu for DOCK input appears in the display.

5 Select "Pairing" by pressing **H** Δ /**L** ∇ key and press **I** ENTER key. ³⁾

"Searching..." appears on the display when the Bluetooth connection is initiated.

1)

For details, refer to the manual supplied with YBA-10.

2)

Refer to the manual of your Bluetooth component for details.

3)

To cancel pairing, press **K** RETURN key.

6 Check that the Bluetooth components recognize the Bluetooth Wireless Audio Receiver.

If the Bluetooth component detects the Yamaha Bluetooth Wireless Audio Receiver, the audio receiver name (“YBA-10 YAMAHA”, for example) appears in the device list of the Bluetooth component.

7 Select the Bluetooth Wireless Audio Receiver from the component list of the Bluetooth components and input “0000” for password of the Bluetooth.

Connecting ⁴⁾

1 Press **Ⓢ** DOCK key to set the input to DOCK.

2 Press **Ⓜ** OPTION key.

3 Select “Connect” and press **Ⓜ** ENTER key. ⁵⁾

4 To disconnect the Bluetooth Wireless Audio Receiver from the Bluetooth component, press **Ⓜ** again to display option menu, select “Disconnect”, and press **Ⓜ** ENTER key.

4) 

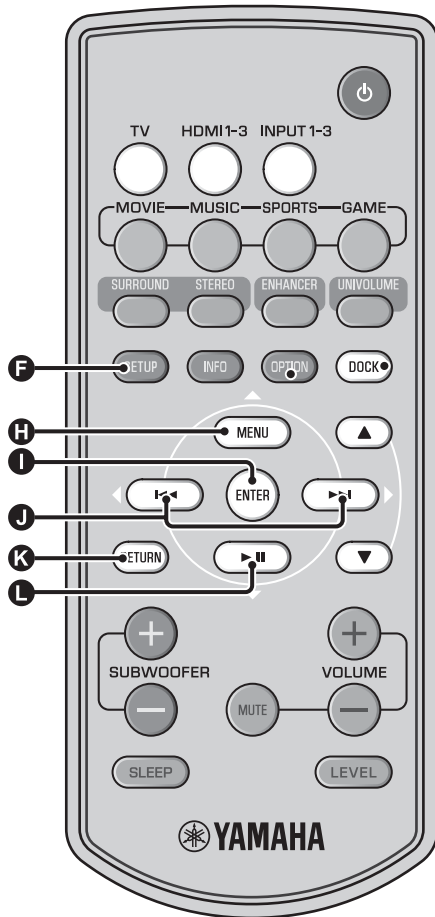
When establishing the Bluetooth connection from this unit, it is only possible to connect to the most recently connected Bluetooth component.

5) 

• For details of messages, refer to “Bluetooth (p. 27)” in “Troubleshooting”.

• If you want to establish a connection with a Bluetooth other than the one most recently connected, initiate the connection from that Bluetooth component. Refer to the manual of your Bluetooth component for details.

Setup menu



Setting procedure

1 Press **F** SETUP key to enter the setup menu.

“Sound Setup” appears on the front panel display.

2 Select menu by pressing **H** Δ /**L** ∇ key and press **I** ENTER key.

Repeat this procedure until desired menu appears on the front panel display.

3 Change setting value of each menu by pressing **J** \leftarrow /**L** \rightarrow key. ¹⁾

4 Press **F** SETUP key again to exit the setup menu. ²⁾

1)

The default settings are marked with “*”.

2)

Press **K** RETURN key to return to the previous menu.

Setup menu list

Category	Menu	Sub menu	Features	Page	
Sound Setup	Tone Control	Treble	Tone control	p. 19	
		Bass			
	Subwoofer	LFE Level	Subwoofer settings	p. 19	
	Audio Delay	Lip Sync		Adjusting delay in output timing between video signals and audio signal	p. 19
			TV	Adjusting output timing of audio signal manually	
			HDMI1-3 INPUT1-3		
	DRC Setup	Adapti.DRC	Dynamic Range Control settings	p. 20	
		D.DRC			
Ch Level	CenterLv	Adjusting the volume of each channel with test tones	p. 20		
	SurLR Lv				
	SWFR Lv				
Input Menu	Input Assign	Opt 1	Assigning jacks according to the component to be used	p. 21	
		Opt 2			
		Coax			
		Ana.			
		HDMI1			Setting the audio output of HDMI jack
		HDMI2 HDMI3			
	HDMI Setup	HDMI Ctrl	HDMI settings	p. 21	
		Support			
Display Menu	Front Display	Std Dimmer	Changing the brightness of the front panel display	p. 22	
		Auto Dimmer			

Tone control

Menu: Tone Control

Adjust the output level of high/low-frequency sound.

Sub menu: Treble (High tone), Bass (Low tone)

Adjustable range: -8.0 dB to 0 dB* to +8.0 dB

Subwoofer settings

Menu: Subwoofer

Adjust the volume of Dolby Digital and DTS signals included in the LFE (low frequency sound effects). ³⁾

Sub menu: LFE Level

Adjustable range: -20 dB to 0 dB*

Audio delay control

Menu: Audio Delay

Flat panel display TV images sometimes lag behind the sound. You can use this function to delay the sound output to synchronize it with the video image.

Sub menu: Lip Sync

Select whether to automatically adjust the audio output delay when a TV that supports the automatic lipsync is connected to the HDMI OUT (ARC) jack of this unit.

Selectable item: On*, Off

“On”: Select “On” if the TV connected to the HDMI OUT (ARC) jack of this unit supports the automatic lipsync. The audio output delay is automatically adjusted.

“Off”: Select “Off” if the TV connected to the HDMI OUT (ARC) jack of this unit does not support the automatic lipsync or if you want to disable the automatic lipsync. The delay time for each input can be adjusted manually by following items.



3) What is LFE?

“LFE” refers to low frequency effects included in the digital audio. Digital signals such as Dolby Digital and DTS include a dedicated line for LFE.

Setup menu

Sub menu: TV

Adjust the audio output delay applied to signals input from the TV jacks.

Adjustable range: 0 ms* to 300 ms

Sub menu: HDMI1-3

Manually adjust the audio output delay applied to signals input from the HDMI IN jacks. This setting is effective only when "Lip Sync" is set to "Off".

Adjustable range: 0 ms to 30 ms* to 300 ms

Sub menu: INPUT1/INPUT2/INPUT3

Adjust the audio output delay applied to signals input from the INPUT1/INPUT2/INPUT3 jacks.

Adjustable range: 0 ms to 30 ms* to 300 ms

Dynamic range control

Menu: DRC Setup

Use to adjust the dynamic range compression. Dynamic range is the difference between the smallest sound that can be heard above the noise of the equipment and the biggest sound that can be heard without distortion.

Sub menu: Adapti. DRC ¹⁾

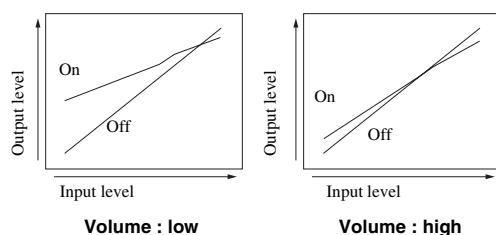
Select whether to automatically adjust the dynamic range in conjunction with the volume level. When this function is set to "On", the dynamic range is adjusted as follows.

When the volume level is low:

Narrow the dynamic range. Loud sound is played back softer, and soft sound which is hard to be listened to is played back louder.

When the volume level is high:

Widen the dynamic range. From soft sound to loud sound, source sound is played back without adjusting volume.



Selectable item: On*, Off

"On": Adjust dynamic range automatically. ²⁾

"Off": The dynamic range is not adjusted automatically.

Sub menu: D.DRC

Select the amount of dynamic range applied when this unit is decoding Dolby Digital and DTS signals.

Selectable items: Min/Auto, Standard, Max*

Min/Auto:

(Minimum) Adjust the dynamic range for low volume or a quiet environment, such as at night, for playing back bitstream signals except for Dolby TrueHD signals.

(Auto) Adjust the dynamic range based on information from the input signal when playing back Dolby TrueHD signal.

Standard: The dynamic range recommended for regular home use.

Max: Outputs sound without adjusting the dynamic range of the input signals. ³⁾

Volume level of each channel with test tones

Menu: Ch Level

Use to adjust the volume of each channel with test tones.

Sub menu:

Center Lv (Center)

SurLR Lv (Surround left/right)

SWFR Lv (Subwoofer)

Adjustable range: -10.0 dB to +10.0 dB

1)

- When set to "On", "D.DRC" is automatically set to "Max".
- This setting is not available when the UniVolume is set to "On".

2)

This makes the sound easier to hear when listening at low volume at night, for example.

3)

"Adapti. DRC" is automatically set to "Off" when the settings other than "Max" is selected.

Input assignment

Menu: Input Assign ⁴⁾

Use to change the key assignments of input jacks on this unit. The sound of the input select is decided according to key assign set to each jacks. ⁵⁾

Sub menu	Default setting
Audio input jack	
Opt1	TV
DIGITAL (OPTICAL) TV	
Opt2	INPUT1
DIGITAL (OPTICAL) 1	
Coax	INPUT2
DIGITAL (COAXIAL) 2	
Ana	INPUT3
AUDIO INPUT 3	

Selectable item: TV, INPUT1, INPUT2, INPUT3, HDMI1, HDMI2, HDMI3

Audio input to HDMI IN jack

Switch the HDMI sound signal to “Off” when you want to playback the video from HDMI IN jack and sound from AUDIO INPUT jack. ⁶⁾

Sub menu: HDMI1, HDMI2, HDMI3

Selectable item: Off, On*

HDMI setup

Menu: HDMI Setup

Use to configure the settings related to HDMI signals and HDMI control function.

HDMI control

Sub menu: HDMI Ctrl

Use this function to link this unit and an HDMI control-compatible TV via HDMI. For details, see “Operating the unit with the TV remote control (p. 8)”.

Selectable item: Off*, On

“Off”*: Disable the control function. The standby power consumption of this unit decreases.

“On”*: Enable the control function.

Audio playback component

Sub menu: Support

Use to select a component to play back HDMI audio signals. This setting is effective when “HDMI Ctrl” is set to “Off”. ⁷⁾

Selectable item: YRS*, Other

“YRS”*: Play back the input sound signal.

“Other”*: Play back the equipment connected to HDMI OUT (ARC) jack.

4)

Set corresponding HDMI IN to “Off” when selecting HDMI IN.

5)

The selectable item for other digital sound input jack already selected will not be displayed.

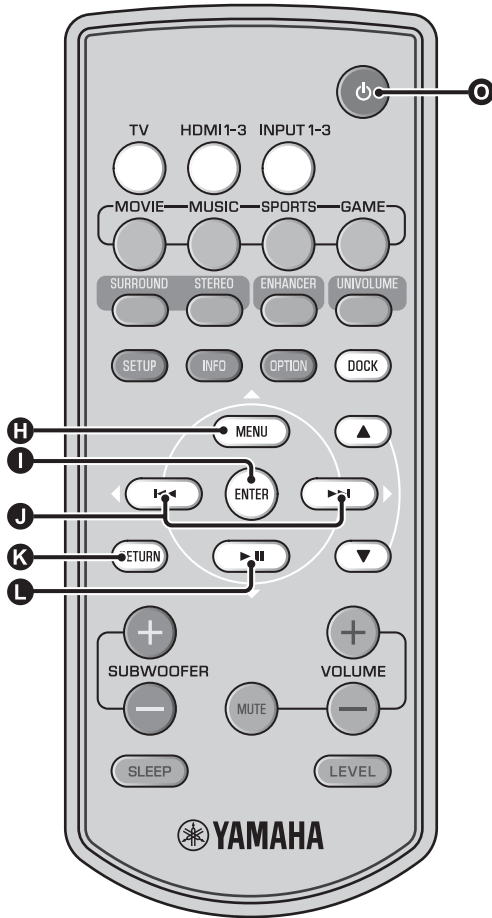
6)

Example: When connecting this unit and PC

- 1 Connect DVI output jack of the PC and HDMI IN 3 using DVI → HDMI converter cable.
- 2 Connect a sound output jack of the PC and AUDIO INPUT 3 jack (Ana).
- 3 Set “Ana” of “Input Assign” to “HDMI3”.
- 4 Set “HDMI3” of “Input Assign” to “Off”

7)

HDMI video signals input to one of the HDMI IN jacks of this unit are always output from the HDMI OUT (ARC) jack of this unit.



Brightness of the front panel display

Menu: Front Display

Use to adjust the brightness and display settings of the front panel display.

Standard dimmer

Sub menu: Std Dimmer

Use to adjust the brightness of the front panel display when you operate this unit. The front panel display dims as the number becomes small.

Selectable item: -2, -1, Off* (brightest)


Auto dimmer


Sub menu: Auto Dimmer

Use to adjust the brightness of the front panel display at normal time (unit/remote control without operation) based on setting value of the "standard dimmer". The front panel display dims as the number becomes small.

Selectable item: Disp. Off (hide), -3, -2, -1, Off* (brightest)





Advanced setup

1 Press  key to turn this unit to standby mode.


2 While holding down INPUT key on the front panel, press  key on the remote control to turn on the power.


“ADVANCED SETUP” appears in the front panel display.

3 Release INPUT key on the front panel.

4 Press    to select the desired menu on the front panel display and then press  ENTER key. ¹⁾


5 Change setting by pressing   key. ²⁾

6 Press  key to set this unit to the standby mode.

The new setting will be reflected when you turn on the unit by pressing  key.

Menu	Description	Selectable item/ Adjustable range
TURN ON VOLUME	Sets volume level at power-on.	Off* (Not set), 01 to 99, MAX (Maximum)
MAX VOLUME SET	Sets maximum volume.	01 to 99, MAX* (Maximum)
PANEL INP. KEY	Enables/disables the INPUT key on the front panel.	P.INPUT: ON* (Enabled), P.INPUT: OFF (Disabled)
F.PANEL. KEY	Enables/disables the keys on the front panel.	P.INPUT: ON* (Enabled), P.INPUT: OFF (Disabled)
R.INPUT POWER	Enables/disables power-on by remote control input keys when the unit is in standby mode.	R.INPUT PW: OFF* (Disables power-on), R.INPUT PW: ON (Enables power-on)
AC ON STANDBY	Sets whether or not this unit returns to its previous state when AC power is restored after a temporary power loss.	AC STANDBY: OFF* (Restores the state before power was lost), AC STANDBY: ON (Enters standby mode)
FACTORY PRESET	Resets all settings to their default values, except settings in ADVANCED SETUP.	PRST: CANCEL* (Reset is not performed), PRST: RESET (Reset is performed)

1) 

To return to the previous menu, press  RETURN key.

2) 


The default settings are marked with “*”.

Troubleshooting

Troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, set this unit to the standby mode, disconnect the AC power supply cable, and contact the nearest authorized Yamaha dealer or service center.

General

Problem	Cause	Remedy	See page
This unit does not operate properly.	The internal microcomputer has been frozen by an external electric shock (such as lightning or excessive static electricity) or by a power supply with low voltage.	Set this unit to the standby mode, disconnect the AC power supply cable, plug it back in after 30 seconds, and use it normally.	-
This unit fails to turn on when  key is pressed, or enters the standby mode soon after the power has been turned on.	The AC power supply cable is not firmly connected to the AC wall outlet.	Connect the AC power supply cable firmly to the AC wall outlet.	6
	This unit has been exposed to a strong external electric shock (such as lightning and strong static electricity).	Set this unit to the standby mode, disconnect the AC power supply cable, plug it back in after 30 seconds, and use it normally.	-
This unit suddenly enters the standby mode.	The internal temperature becomes too high and the overheat protection circuitry has been activated.	Wait for about one hour for this unit to cool down and turn it back on.	-
	The sleep timer has turned the unit off.	Turn on the power and play back the source again.	12
	The power has shut down after wireless was disconnected for a while during "Interlock" is set to "On" using YID-W10.	Resume wireless connection or detect audio of iPod/iPhone and turn on the unit.	-
No sound.	Incorrect input or output cable connections.	Connect them with an HDMI connection or a digital connection.	6, 7
	No appropriate input source has been selected.	Select an appropriate input source with INPUT key or input selector keys.	10
	The volume is turned down.	Turn up the volume.	10
	The sound is muted.	Press MUTE or VOLUME +/- key to resume audio output and adjust the volume level.	10
	There is input signal cannot be played back by this unit.	Play a source whose signals can be reproduced by this unit. Change the system settings of the source component.	-
	"Support" is set to "Other".	Set to "YRS".	21
	"HDMI Ctrl" is set to "Off".	When connecting ARC (Audio Return Channel) supported TV and this unit using HDMI cable only, set "HDMI Ctrl" to "On".	21
		Connect coaxial digital input jack and TV's audio output jack using a digital audio pin cable.	7
A headphone is connected to this unit.			
The sound of effect channel for cable broadcasting may become noise.	The source has a surround effect.	Do not put surround effect by this unit.	-
No sound or too small sound from a specific channel.	The output level of the channel is muted.	Raise the output level of the channel.	11, 20
	You play back the source in the stereo mode.	Start surround playback.	11
Surround sound effects are insubstantial.	When connecting this unit with playback component and TV digitally, the output setting of the playback component and TV is not valid.	Refer to the manual supplied with your component and check the setting.	-
No sound from the internal subwoofer.	The source does not contain low bass signals.		
	The level of subwoofer is low.	Increase the subwoofer level with SUBWOOFER + key.	11

Problem	Cause	Remedy	See page
The image is not displayed on TV screen.	HDMI cable or video pin cable is not securely connected.	Connect them with an HDMI connection or a digital connection.	6, 7
	The input switch of TV is not set correctly.	Switch the input source for your TV.	–
A digital or high-frequency equipment produces noises.	The unit may be placed close to digital equipment or high-frequency equipment.	Leave these equipments from the unit.	–
The system settings change automatically.	When “HDMI Ctrl” is set to “On”, operations of the TV (for example, changing channels, etc.) may change the system settings, such as the surround mode.	Set “HDMI Ctrl” to “Off” or set the system again by using its remote control.	21
The HDMI control function does not work properly.	“HDMI Ctrl” is set to “Off”.	Set “HDMI Ctrl” to “On”.	21
	The HDMI control function is disabled on your TV.	Refer to the manual supplied with your TV and check the setting.	–
	The number of the connected HDMI components is over the limit.	Disconnect some of the HDMI components.	–
The automatic lipsync is not effective even “Lip Sync” is set to “On”.	The TV does not support the automatic lipsync.	Set “Lip Sync” to “Off” and then manually adjust the audio output delay.	19
“Not Available” appears on the front panel display after key operation.	The key is unable to function in the current condition.		

Remote control

Problem	Cause	Remedy	See page
The remote control does not work and/or function properly.	Wrong distance or angle.	The remote control functions within a maximum range of 6 m (20 ft) and no more than 30 degrees off-axis from the front panel.	5
	Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.	–
	The batteries are weak.	Replace all batteries.	5

iPod/iPhone

Note

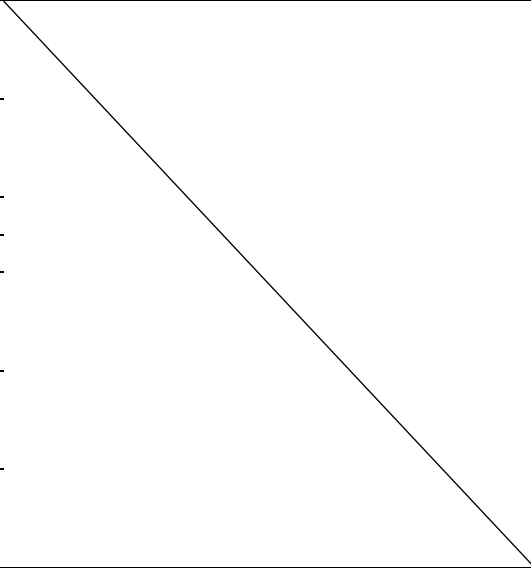
If the problem occur other than the following message displayed on the display, check the connection of your iPod/iPhone.

Message	Features	Remedy	See page
Connect error	iPod/iPhone has a problem with communication.	Turn off the power of this unit and reconnect Yamaha Universal Dock for iPod again.	14
		Reset iPod/iPhone to a Yamaha Universal Dock for iPod.	14
Low Battery	The battery of iPod/iPhone is running low.		
Unknown iPod	The iPod/iPhone being used is not supported by this unit.	Connect supported iPod to this unit.	14
Connected	iPod/iPhone is correctly connected to the Yamaha Universal Dock for iPod.		
	iPod/iPhone is correctly set to Yamaha Wireless Transmitter and connected to this unit wirelessly.		
Disconnected	iPod/iPhone is removed from Yamaha Universal Dock for iPod.		
	The wireless connection of this unit and iPod/iPhone is disconnected.		
Unable to play	For some reason, iPod/iPhone cannot be played back.	Check whether the music stored in iPod/iPhone is playable or not.	-
Charging	Your iPod/iPhone is charging.		

Bluetooth


Note

If the problem occur other than the following message displayed on the display, check the connection of your Bluetooth component.

Message	Features	Remedy	See page
Searching...	<p>The Yamaha Bluetooth Wireless Audio Receiver (such as YBA-10, optional) and the Bluetooth component are in the process of the pairing.</p> <p>The Yamaha Bluetooth Wireless Audio Receiver (such as YBA-10, optional) and the Bluetooth component are in the process of establishing the connection.</p>		
Completed	The pairing is completed.		
Canceled	The pairing is canceled.		
Not Available	The Yamaha Bluetooth Wireless Audio Receiver (such as YBA-10, optional) and the Bluetooth component are in the process of the pairing.		
Connected	The connection between the Yamaha Bluetooth Wireless Audio Receiver (such as YBA-10, optional) and the Bluetooth component is established.		
Disconnected	The Bluetooth component is disconnected from the Yamaha Bluetooth Wireless Audio Receiver (such as YBA-10, optional).		
Not found	<p>The unit cannot find the Bluetooth component while performing the pairing or trying to connect to the Bluetooth component.</p> <p>(When pairing)</p> <ul style="list-style-type: none"> - The pairing should be performed for this unit and the Bluetooth component at the same time. Make sure that the Bluetooth component is also a pairing mode. <p>(When Connected)</p> <ul style="list-style-type: none"> - Make sure that the power of the Bluetooth component is on. - Check if the distance between the Yamaha Bluetooth Wireless Audio Receiver and the Bluetooth component is in 10 meters. - The Bluetooth component and this unit have not been performed pairing. Pairing the stations again. 		

Resetting this unit

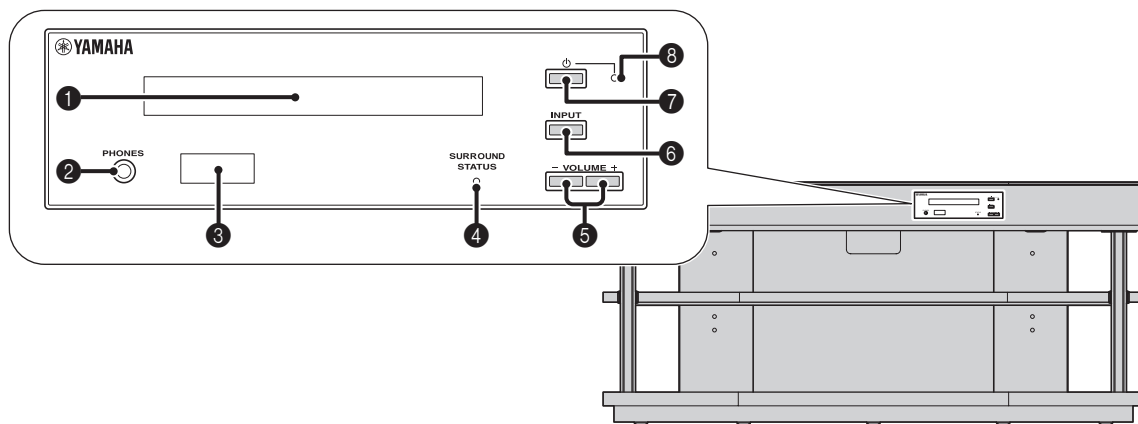
When the unit freezes, the problem may solve by resetting the unit.

To reset the unit, press  key of this unit for more than 10 seconds.

Controls and functions

Controls and functions

Front panel



1 Front panel display

Shows information about the operational status of this unit. (☞p. 29)

2 PHONES jack

For connecting headphones. (☞p. 12)

3 Remote control sensor

Receives infrared signals from the remote control. (☞p. 30)

4 SURROUND STATUS indicator

Lights up according to the input signal.

Displayed color	Input signal
Blue	Following surround audio signal formats: Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio, DTS-HD High Resolution, Multi-channel Linear PCM
Orange	Surround audio signal other than above
Off	Audio signal other than above or no signal

5 VOLUME +/- key

Controls the volume of the unit. (☞p. 10)

6 INPUT key

Selects playback component. (☞p. 10)

7 $\text{\textcircled{P}}$ key

Turns on the unit or set it to the standby mode.

Note

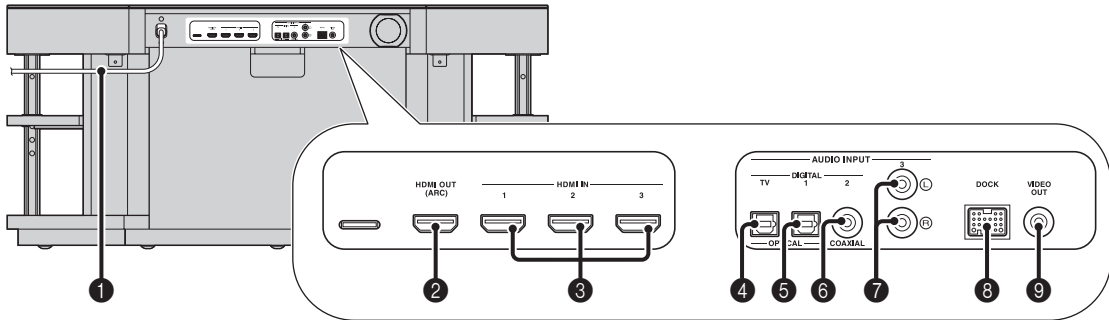
In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control or to search for HDMI signals.

8 System indicator

Lights up to show the system condition.

Light	Power	HDMI Ctrl (☞p. 21)	Interlock Mode (☞p. 15)
Green	On	–	–
Red	Standby	On	Off
	Standby	Off	On
Off	Standby	Off	Off

Rear panel



1 Power cable

For connecting to an AC wall outlet. (p. 6)

2 HDMI OUT (ARC) jack

For connecting HDMI compatible TV and external components. (p. 6)

3 HDMI IN jack

For connecting HDMI compatible Blu-ray disc player, tuner and game console. (p. 6, 7)

4 OPTICAL digital input (TV) jack

For connecting optical cable to the TV. (p. 6)

5 OPTICAL digital input 1 jack

For connecting optical cable to the external components. (p. 7)

6 COAXIAL digital input 2 jack

For connecting digital audio pin cable to the external components. (p. 7)

7 AUDIO INPUT 3 jack

For connecting analog cable to the external components. (p. 7)

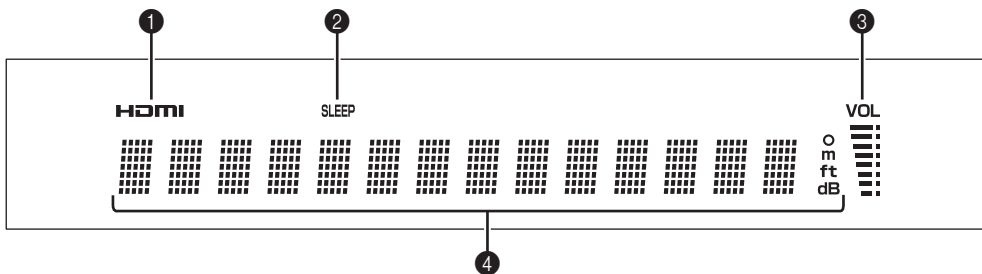
8 DOCK terminal

For connecting optional Yamaha Universal Dock for iPod, Wireless System for iPod/iPhone, and Bluetooth Wireless Audio Receiver. (p. 14, 16)

9 VIDEO OUT jack

For connecting video input jack of TV to play back video in iPod/iPhone.

Front panel display



1 HDMI indicator

Lights up when HDMI signal is input.

2 SLEEP indicator

Lights up when the sleep timer is set. (p. 12)

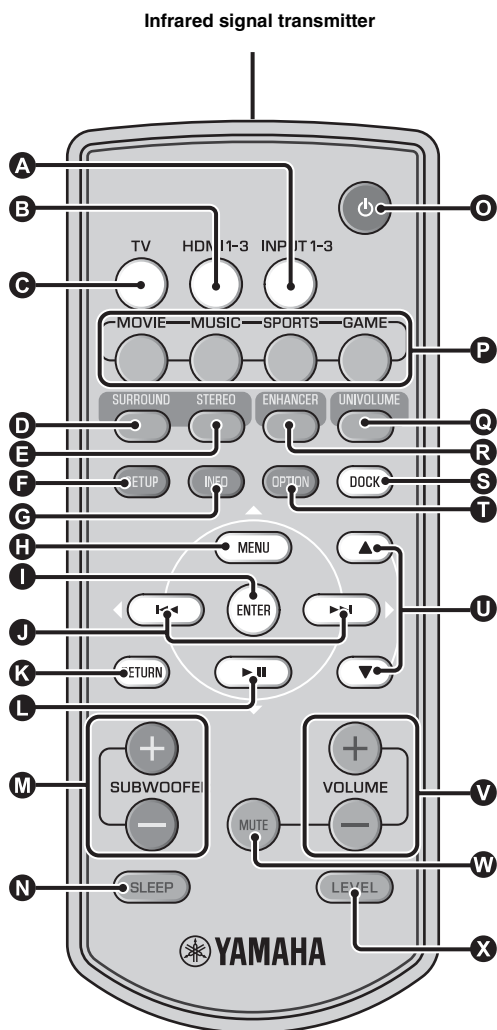
3 VOL indicator

Indicates the current volume level. (p. 10)

4 Multi information display

Displays information in alpha-numeric values. Displays playback components and current sound output when power is on.

Remote control



A B C Input selector keys

Select playback component. (☞p. 10)

D SURROUND key

Switches to surround playback. (☞p. 11)

E STEREO key

Switches to stereo playback. (☞p. 11)

F SETUP key

Displays the setup menu. (☞p. 18)

G INFO key

Switches the information display on the front panel as follows.
When DOCK is selected as source, this button is not available.

- Audio Decoder: Sound signal decoder currently selected
- Input/Output: Input name/surround (stereo) mode

H I J L MENU (△) key, ENTER key, ⏪ (<) key, ⏩ (>) key, ▾ (▽) key

- Change the setting. (☞p. 18)
- Operate iPod.

K RETURN

Returns to the previous menu screen.

M SUBWOOFER (+/-) key

Adjusts the volume balance of subwoofer.

N SLEEP key

Sets the sleep timer. (☞p. 12)

O ⏻ key

Turns on the unit or set it to the standby mode. (☞p. 10)

P Surround mode keys

Switch the surround mode. (☞p. 11)

Q UNIVOLUME key

Turns UniVolume mode to on/off. (☞p. 11)

R ENHANCER key

Turns Compressed Music Enhancer to on/off. (☞p. 11)

S DOCK key

Selects iPod/iPhone or Bluetooth component. (☞p. 14, 16)

T OPTION key

Displays option menu for each input source. (☞p. 13)

U ▲/▼ key

Operate iPod wheel. (☞p. 14)

V VOLUME (+/-) key

Controls the volume of the unit. (☞p. 10)

W MUTE key

Mutes the sound. (☞p. 10)

X LEVEL key

Adjusts the volume balance during playback. (☞p. 11)

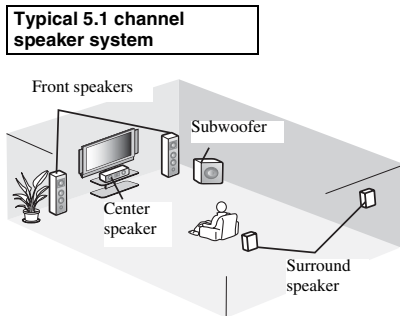
Glossary

Glossary

AIR SURROUND XTREME

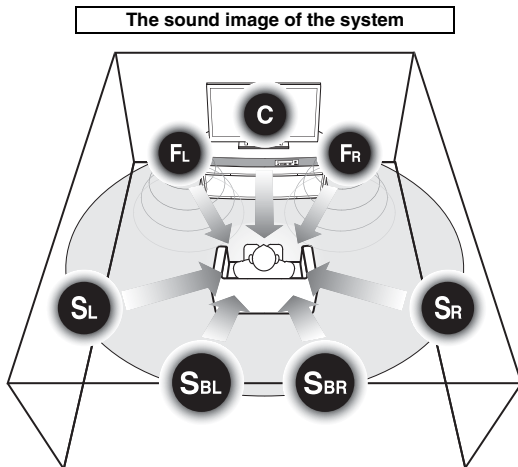
This system employs new technologies and algorithms that make it possible to achieve 7-channel surround sound with only front speakers, and without using wall reflections.

Ordinarily, two front speakers, a center speaker, two surround speakers, and a subwoofer are necessary for enjoying 5.1 channel surround sound.



Virtual 7.1 channel

The AIR SURROUND XTREME technology, using only front speakers and subwoofer, enables you to enjoy a realistic 7.1 channel sound by simulating sound from virtual speakers at center, surround, and surround backs.



The system creates the virtual 7.1 channel surround sound with the subwoofer integrated receiver and the speaker.

C: Center speaker

FR, FL: Front speakers

SR, SL: Surround virtual speakers

SBR, SBL: Surround back virtual speakers

Sampling frequency

The number of sampling (process for digitalizing analog signals) per second. In principle, the higher the sampling rate, the wider the frequency range that can be played back, and the higher the quantized bit rate, the finer the sound that can be reproduced.

Channel (ch)

A channel is an audio type that has been divided based on range and other characteristics.

Ex. 7.1 channel

- Front speakers, Left (1ch), Right (1ch)
- Center speaker (1ch)
- Surround speakers, Left (1ch), Right (1ch)
- Surround back speakers, Left (1ch), Right (1ch)
- Subwoofer (1ch × 0.1* = 0.1ch)

* In contrast to a full 1-channel band, a component designed to enhance low frequency sound for added effect.

Dolby Digital

Digital surround sound system which is developed by Dolby Laboratories provides completely independent multi-channel audio. With 3 front channels (left, center, and right) and 2 surround stereo channels, Dolby Digital provides five full-range audio channels. By using 2 channel stereo for the surround speakers, more accurate moving sound effects and surround sound environment are possible than with Dolby Surround.

Dolby Digital Plus

Dolby Digital Plus is an advanced audio technology developed for high-definition programming and media including HD broadcasts, and Blu-ray Disc. Selected as an optional audio standard for Blu-ray Disc, this technology delivers multichannel sound with discrete channel output. Supporting bitrates up to 6.0 Mbps, Dolby Digital Plus can carry up to 7.1 discrete audio channels simultaneously. Supported by HDMI and designed for the optical disc players and AV receivers/amplifiers of the future, Dolby Digital Plus also remains fully compatible with the existing multichannel audio systems that incorporate Dolby Digital.

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a new technology enabling discrete multichannel playback from 2-channel or multi-channel sources. There are three modes available: “Music mode” for music sources, “Movie mode” for movie sources (for 2-channel sources only) and “Game mode” for game sources.

Dolby TrueHD

Dolby TrueHD is an advanced lossless audio technology developed for high-definition disc-based media including Blu-ray Disc. Selected as an optional audio standard for Blu-ray Disc, this technology delivers sound that is bit-for-bit identical to the studio master, offering a high-definition home theater experience. Supporting bitrates up to 18.0 Mbps, Dolby TrueHD can carry up to 8 discrete channels of 24-bit/96 kHz audio simultaneously. Dolby TrueHD also remains fully compatible with the existing multichannel audio systems and retains the metadata capability of Dolby Digital, allowing dialog normalization and dynamic range control.

Deep Color

Deep Color is a type of video signal that can be transmitted by the HDMI jacks of this unit. Deep Color refers to the use of various color depths in displays, up from the 24-bit depths in previous versions of the HDMI specification. This extra bit depth allows HDTVs and other displays go from millions of colors to billions of colors and eliminate on-screen color banding for smooth tonal transitions and subtle gradations between colors. The increased contrast ratio can represent many times more shades of gray between black and white. Also Deep Color increases the number of available colors within the boundaries defined by the RGB or YCbCr color space.

DTS

Digital surround sound system developed by DTS, Inc., which provides 5.1 channel audio. With an abundance of audio data, it is able to provide authentic-sounding effects.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is a high resolution audio technology developed for high-definition disc-based media including Blu-ray Disc. Selected as an optional audio standard for Blu-ray Disc, this technology delivers sound that is virtually indistinguishable from the original, offering a high-definition home theater experience. Supporting bitrates up to 6.0 Mbps for Blu-ray Disc, DTS-HD High Resolution Audio can carry up to 7.1 discrete channels of 24-bit/96 kHz audio simultaneously.

DTS-HD Master Audio

The lossless high quality audio format created for next generation optical disc such as Blu-ray Disc. It is selected as an audio standard for Blu-ray Disc. Supporting bitrates up to 24.5 Mbps for Blu-ray Disc, DTS-HD High Master Audio can carry up to 7.1 discrete channels of 24-bit/96 kHz audio simultaneously.

HDMI

HDMI (High-Definition Multimedia Interface) is the first industry supported, uncompressed, all-digital audio/video interface. When used in combination with HDCP (High-bandwidth Digital Content Protection), HDMI provides a secure audio/video interface that meets the security requirements of content providers and system operators.

PCM (Pulse Code Modulation)

Linear PCM is a signal format under which an analog audio signal is digitized, recorded, and transmitted without using any compression. This is used as a method of recording CDs and DVD audio. The PCM system uses a technique for sampling the size of the analog signal per very small unit of time. Standing for pulse code modulation, the analog signal is encoded as pulses and then modulated for recording.

x.v.Color

x.v.Color is a type of video signal that can be transmitted by the HDMI jacks of this unit. It is a more extensive color space than sRGB, and allows the expression of colors that could not be expressed before. While remaining compatible with the color gamut of sRGB standards, “x.v.Color” expands the color space and can thus produce more vivid, natural images. It is particularly effective for still pictures and computer graphics.

Specifications

Specifications

Amplifier section

- Rated Output Power
 - Front L/R (1 kHz, 1% THD, 6 Ω) 45 W + 45 W
 - Center (1 kHz, 1% THD, 6 Ω) 45 W
 - Subwoofer (100 Hz, 1% THD, 3 Ω) 90 W
- Maximum Output Power
 - Front L/R (1 kHz, 10% THD, 6 Ω) 50 W + 50 W
 - Center (1 kHz, 10% THD, 6 Ω) 50 W
 - Subwoofer (100 Hz, 10% THD, 3 Ω) 100 W

Speaker section

- Type Acoustic suspension type
Non-magnetic shielding type
- Driver (Full range) 4 × 10 cm (1-1/2 × 4 in) cone × 3
- Frequency Response 140 Hz to 20 kHz
- Impedance 6 Ω

Subwoofer section

- Type Bass reflex type
Non-magnetic shielding type
- Driver 13 cm (5-1/4 in) cone
- Frequency Response 35 Hz to 140 Hz
- Impedance 3 Ω

Input Jack

- Audio Input
 - Optical 2 (INPUT 1)
 - Coaxial 1 (INPUT 2)
 - Analog 1 pair (INPUT 3)
- HDMI Input 3 (HDMI IN 1 to 3)



This system employs new technologies and algorithms that make it possible to achieve 7-channel surround sound with only front speakers, and without using wall reflections.



Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.



Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS, DTS-HD and the Symbol are registered trademarks, & DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

iPod, iPhone

“iPod” is a trademark of Apple Inc., registered in the U.S. and other countries.

“iPhone” is a trademark of Apple Inc.

Output Jacks

- HDMI Output 1
- Video Output (Composite video, 1.0 Vp-p) 1
[U.S.A., Canada, and Korea models] NTSC
[Other models] PAL
- Headphone Output
([Analog input, 1kHz, 400mV/16Ω] 220±10mV) 1

General

- Power Supply
 - [Canada model] AC 120 V, 60 Hz
 - [Europe, U.K., Korea and Asia models] AC 220-240 V, 50/60 Hz
- Power Consumption 42 W
- Standby Power Consumption
(HDMI Control on) 5.0 W or less
(HDMI Control off) 0.5 W or less
- Dimensions (W × H × D) 1000 × 550 × 450 mm
(39-3/8 × 21-5/8 × 17-3/4 in)
- Weight 36.5 kg
(80.5 lbs)

* Specifications are subject to change without notice.

Bluetooth

Bluetooth is a registered trademark of Bluetooth SIG and is used by Yamaha in accordance with a license agreement.

HDMI

“HDMI,” the “HDMI” logo and “High-Definition Multimedia Interface” are trademarks, or registered trademarks of HDMI Licensing LLC.

x.v.Color

“x.v.Color” is a trademark of Sony Corporation.

UniVolume

“UniVolume” is a trademark of Yamaha Corporation.

Available signal information

HDMI signal compatibility

■ Receivable audio signals

Audio signal types	Audio signal formats	Compatible media
2ch Linear PCM	2ch, 32-192 kHz, 16/20/24 bit	CD, DVD-Video, DVD-Audio, etc.
Multi-ch Linear PCM	8ch, 32-192 kHz, 16/20/24 bit	DVD-Audio, Blu-ray disc, HD DVD, etc.
Bitstream (SD Audio)	Dolby Digital, Dolby Digital EX, DTS, DTS-ES	DVD-Video, etc.
Bitstream (HD Audio)	Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio, DTS-HD High Resolution Audio	Blu-ray disc, HD DVD



- Refer to the supplied instruction manuals of the input source component, and set the component appropriately.
- When CPM copy-protected DVD-Audio is played back, video and audio signals may not be output depending on the type of the DVD player.
- This unit is not compatible with HDCP-incompatible HDMI or DVI components. Refer to the supplied instruction manuals of HDMI or DVI components for HDCP compatibility.
- To decode audio bitstream signals on this unit, set the input source component appropriately so that the component outputs the bitstream audio signals directly (does not decode the bitstream signals on the component). Refer to the supplied instruction manuals for details.

■ Repeatable video signals¹⁾

- This unit is compatible with the video signals of the following resolutions:
 - 480i/60 Hz
 - 576i/50 Hz
 - 480p/60 Hz
 - 576p/50 Hz
 - 720p/60 Hz, 50 Hz
 - 1080i/60 Hz, 50 Hz
 - 1080p/60 Hz, 50 Hz, 24 Hz
- Deep Color
- x.v.Color
- 3D video signal

Digital audio signal (optical/coaxial)

Audio signal types	Audio signal formats	Compatible media
2ch Linear PCM	2ch, 32-96 kHz, 16/20/24 bit	CD, DVD-Video, DVD-Audio, etc.
Bitstream	Dolby Digital, Dolby Digital EX, DTS, DTS-ES	DVD-Video, etc.

1)

The compatible video signal is changed depending the connected TV.

Limited Guarantee for European Economic Area (EEA) and Switzerland

Thank you for having chosen a Yamaha product. In the unlikely event that your Yamaha product needs guarantee service, please contact the dealer from whom it was purchased. If you experience any difficulty, please contact Yamaha representative office in your country. You can find full details on our website (<http://www.yamaha-hifi.com/> or <http://www.yamaha-uk.com/> for U.K. resident).

The product is guaranteed to be free from defects in workmanship or materials for a period of two years from the date of the original purchase. Yamaha undertakes, subject to the conditions listed below, to have the faulty product or any part(s) repaired, or replaced at Yamaha's discretion, without any charge for parts or labour. Yamaha reserves the right to replace a product with that of a similar kind and/or value and condition, where a model has been discontinued or is considered uneconomic to repair.

Conditions

- 1 The original invoice or sales receipt (showing date of purchase, product code and dealer's name) MUST accompany the defective product, along with a statement detailing the fault. In the absence of this clear proof of purchase, Yamaha reserves the right to refuse to provide free of charge service and the product may be returned at the customer's expense.
- 2 The product MUST have been purchased from an AUTHORISED Yamaha dealer within the European Economic Area (EEA) or Switzerland.
- 3 The product must not have been the subject of any modifications or alterations, unless authorised in writing by Yamaha.
- 4 The following are excluded from this guarantee:
 - a. Periodic maintenance and repair or replacement of parts due to normal wear and tear.
 - b. Damage resulting from:
 - (1) Repairs performed by the customer himself or by an unauthorised third party.
 - (2) Inadequate packaging or mishandling, when the product is in transit from the customer. Please note that it is the customer's responsibility to ensure the product is adequately packaged when returning the product for repair.
 - (3) Misuse, including but not limited to (a) failure to use the product for its normal purpose or in accordance with Yamaha's instructions on the proper use, maintenance and storage, and (b) installation or use of the product in a manner inconsistent with the technical or safety standards in force in the country where it is used.
 - (4) Accidents, lightning, water, fire, improper ventilation, battery leakage or any cause beyond Yamaha's control.
 - (5) Defects of the system into which this product is incorporated and/or incompatibility with third party products.
 - (6) Use of a product imported into the EEA and/or Switzerland, not by Yamaha, where that product does not conform to the technical or safety standards of the country of use and/or to the standard specification of a product sold by Yamaha in the EEA and/or Switzerland.
- 5 Where the guarantee differs between the country of purchase and the country of use of the product, the guarantee of the country of use shall apply.
- 6 Yamaha may not be held responsible for any losses or damages, whether direct, consequential or otherwise, save for the repair or replacement of the product.
- 7 Please backup any custom settings or data, as Yamaha may not be held responsible for any alteration or loss to such settings or data.
- 8 This guarantee does not affect the consumer's statutory rights under applicable national laws in force or the consumer's rights against the dealer arising from their sales/purchase contract.

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Pb

