

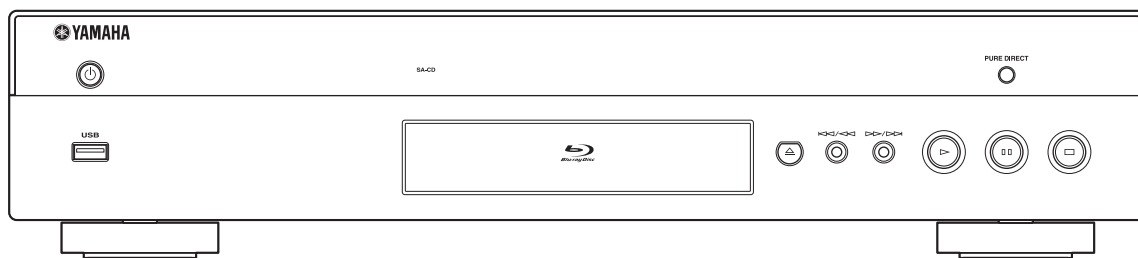


LVP


BLU-RAY DISC PLAYER


BD-S1067

OWNER'S MANUAL
MANUAL DE INSTRUCCIONES



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.
Top: 10 cm (4 in)
Rear: 10 cm (4 in)
Sides: 10 cm (4 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 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- 19 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- 20 Install this unit near the AC outlet and where the AC power plug can be reached easily.
- 21 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

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.

The laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

LASER Specification:

Class 1 LASER Product

Wave length: 790 nm (CDs)/655 nm (DVDs)/405 nm (BDs)

Laser output: max. 1 mW

LASER SAFETY

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

DANGER

This unit emits visible laser radiation when open. Avoid direct eye exposure to beam. When this unit is plugged into the wall outlet, do not place your eyes close to the opening of the disc tray and other openings to look into inside.

CAUTION

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

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5

■ About this manual

- This manual describes how to operate this Player using a remote control except when it is not available. Some of these operations are also available using the front panel buttons.
- Notes contain important information about safety and operating instructions. Hint(s) indicates a tip for your operation.
- This manual is printed 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 icons used in this manual

Icons are used to indicate available buttons/functions for a particular format.

BD	: BD-Video
DVD	: DVD-Video, DVD-VR, DVD+VR, DVD-Audio
CD	: Audio CD, Super Audio CD
VIDEO	: AVCHD, WMV, DivX
MUSIC	: MP3, WMA
PHOTO	: JPEG

English

WHAT YOU CAN DO WITH THIS PLAYER

Easy setting for language, resolution, screen aspect ratio → p. 18

You can perform language and TV settings.

Play back commercially-released BD/DVD/CD/SA-CD/DVD-Audio discs* → p. 22

In addition to BD discs, this Player also supports playback of a variety of other discs.

Play back BONUSVIEW, BD-Live, etc.* → p. 25

You can enjoy additional movies on the latest BD discs.

Play back Video, Music, Photo files on a disc* → p. 19

This Player can play back discs you recorded.

Play back Video, Music, Photo files on a disc/USB memory device* → p. 19

Files recorded on discs/USB memory devices can be played back with this Player.

Play back Video, Music, Photo files on a Home Network Server* ** → p. 21

PC contents can be played back with TV or AV receiver by connecting this Player to a network server.

Operation with the remote control of TV, AV receiver, etc. → p. 29

Connecting devices with an HDMI cable, you can control devices with a single remote control using the HDMI Control function.

* For details on playable disc and format, see page 3.

** Network setting is needed to use this function.

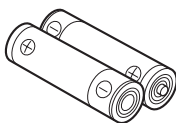
SUPPLIED PARTS

Make sure the following accessories are provided with the product.

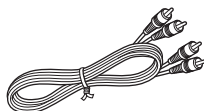
Remote control



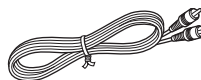
Batteries (x2)
(AAA, R03, UM-4)



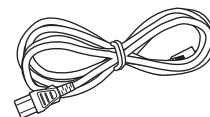
Audio pin cable



Video pin cable









Power cable



Types of discs/files that can be used with this Player

- 12 cm (5") and 8 cm (3") discs can be played back in this Player. Do not use an 8 cm (3") to 12 cm (5") adapter.
- Use discs that conform to compatible standards as indicated by the presence of official logos on the disc label. Playback of discs not complying with these standards is not guaranteed. In addition, the image quality or sound quality is not guaranteed even if the discs can be played back.







Disc Type	Recording Format	Data Format
BD-ROM/BD-R/ BD-RE	BD-Video	--
DVD-ROM	DVD-Video/DVD-Audio	--
DVD-R/DVD-R DL/ DVD-RW	DVD-Video/DVD-VR/AVCHD/Data Disc	DivX/WMV/MP3/ WAV/WMA/JPEG
DVD+R/DVD+R DL/DVD+RW	DVD-Video/ DVD+VR/AVCHD/ Data Disc	DivX/WMV/MP3/ WAV/WMA/JPEG
CD-ROM	CDDA/HDCD	--
CD-R/CD-RW	CDDA/Data Disc	DivX/WMV/MP3/ WAV/WMA/JPEG
SA-CD	SA-CD	--
USB	--	DivX/WMV/MP3/ WAV/WMA/JPEG
Network	--	WMV/MP3/WMA/ WAV/JPEG

Region management information		
Destination	BD-Video	DVD-Video
Central and South America	Region code "A" or "ALL" 	Region number "4" or "ALL" 
Europe	Region code "B" or "ALL" 	Region number "2" or "ALL" 
Russia	Region code "C" or "ALL" 	Region number "5" or "ALL" 

- BD/DVD Video players and discs have region codes, which dictate the regions in which a disc can be played.
- BD/DVD Video operations and functions may be different from the explanations in this manual and some operations may be prohibited due to disc manufacturer's settings.
- If a menu screen or operating instructions are displayed during playback of a disc, follow the operating procedure displayed.

Notes

- Playback for some of the discs in the left side column tables may not be possible depending on the disc.
- Finalize all recording media that is played back in this Player.
- "Finalize" refers to a recorder processing a recorded disc so that it will play in other players/recorders as well as this Player. (This Player does not have a function to finalize discs.)
- Playback of all files on the disc, USB memory device and network is not guaranteed.
- A copyright protected file cannot be played back via USB memory device and network.

Region management information		
Destination	BD-Video	DVD-Video
Asia	Region code "A" or "ALL" 	Region number "3" or "ALL" 
Taiwan	Region code "A" or "ALL" 	Region number "3" or "ALL" 
Korea	Region code "A" or "ALL" 	Region number "3" or "ALL" 

MP3/WMA/WAV audio file requirement

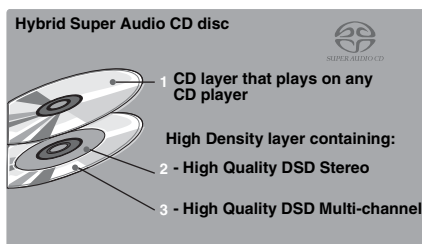
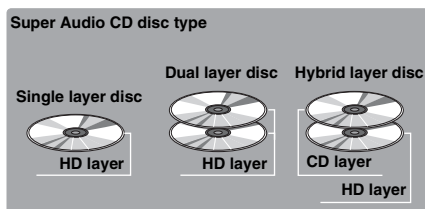
- Sampling frequency: within 32 - 48 kHz (MP3/WMA), LPCM 44.1 kHz/16 bit/Stereo (WAV)
- Bitrate: within 8 - 320 kbps (MP3), 32 - 192 kbps (WMA)

WMV file requirement

- WMV9, maximum resolution is 1,920 × 1,080.

About Super Audio CD (SA-CD)

- Audio format based upon the current CD standards but includes a greater amount of information that provides higher quality sound. There are three types of discs: single layer, dual layer and hybrid discs. The hybrid disc can be played on existing CD players as well as Super Audio CD players since it contains both standard audio CD and Super Audio CD information.



Hint

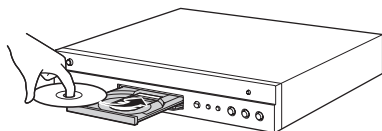
- This player supports DSD data transmission via HDMI using a compatible AV receiver.

Note

- This unit does not show the text data included in the discs on the front panel display.

Loading a disc

- Insert the disc with the label face up.
- In case of the disc recorded on both sides, face down the side to play back.



Notes

- Playback may begin automatically, depending on the disc and setting of this Player.
- The menu may be displayed first, depending on the disc.
- The disc load time may vary depending on the disc.

Disc precautions

Be careful of scratches and dust

- BD, DVD and CD discs are sensitive to dust, fingerprints and especially scratches. A scratched disc may not be able to be played back. Handle discs with care and store them in a safe place.

Proper disc storage

Place the disc in the center of the disc case and store the case and disc upright.	
Avoid storing discs in locations subject to direct sunlight, close to heating appliances or in locations of high humidity.	
Do not drop discs or subject them to strong vibrations or impacts.	
Avoid storing discs in locations where there are large amounts of dust or moisture.	

Handling precautions



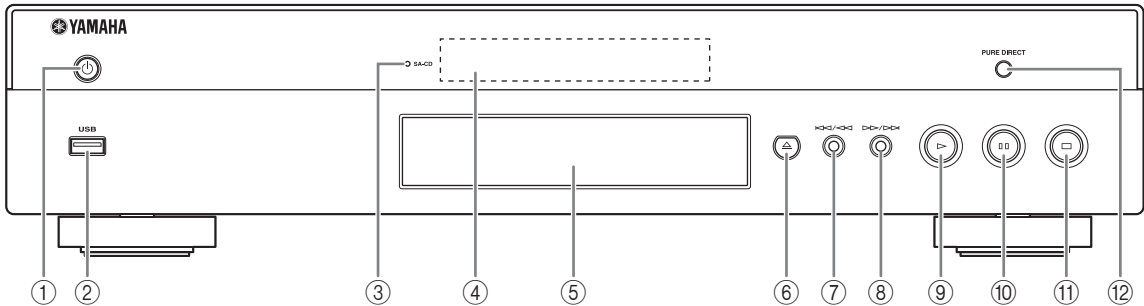
- If the surface is soiled, wipe gently with a soft, damp (water only) cloth. When wiping discs, always move the cloth from the center hole toward the outer edge.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.

- Do not touch the surface.
- Do not stick paper or adhesive labels to the disc.
- If the playing surface of a disc is soiled or scratched, the Player may decide that the disc is incompatible and eject the disc tray, or it may fail to play the disc correctly. Wipe any dirt off the playing surface with a soft cloth.

Cleaning the pick up lens

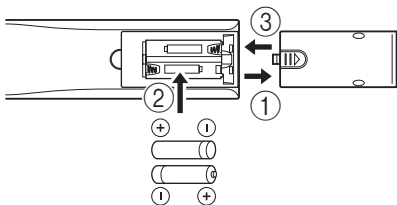
- Never use commercially available cleaning discs. The use of these discs can damage the lens.
- Request the nearest service center approved by Yamaha to clean the lens.

■ Front panel



- ① **⏻ (On/Standby)**
- ② **USB port (p. 16)**
- ③ **SA-CD indicator:** Lights up when an SA-CD is loaded and the SA-CD layer (p. 4) is selected.
- ④ **Front panel display**
- ⑤ **Disc tray (p. 4)**
- ⑥ **▲ (Eject):** Opens/closes the disc tray.
- ⑦ **⏮/⏪ (Search backward/Skip backward):** Press to skip backward, and press and hold to search backward.
- ⑧ **⏩/⏭ (Search forward/Skip forward):** Press to skip forward, and press and hold to search forward.
- ⑨ **▶ (Play)**
- ⑩ **■ ■ (Pause)**
- ⑪ **■ (Stop)**
- ⑫ **PURE DIRECT:** Press to change the Pure Direct mode (p. 7) to mode 1/mode 2/off. This button lights up when Pure Direct mode is set to mode 1/mode 2.

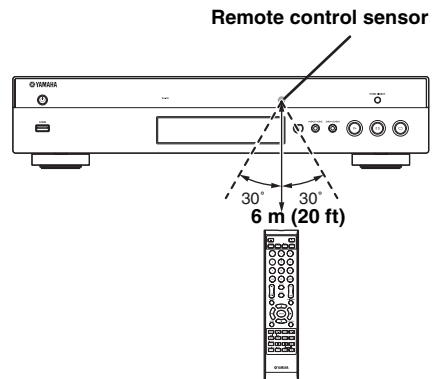
Loading the batteries in the remote control



Notes


- Do not subject the remote control unit to shock, water or excessive humidity.
- The remote control unit may not function if the Player's remote sensor is in direct sunlight or any other strong light.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries, or mix different brands.
- Remove the batteries if you will not use the remote control unit for an extended period of time.
- Dispose of batteries according to your regional regulations.

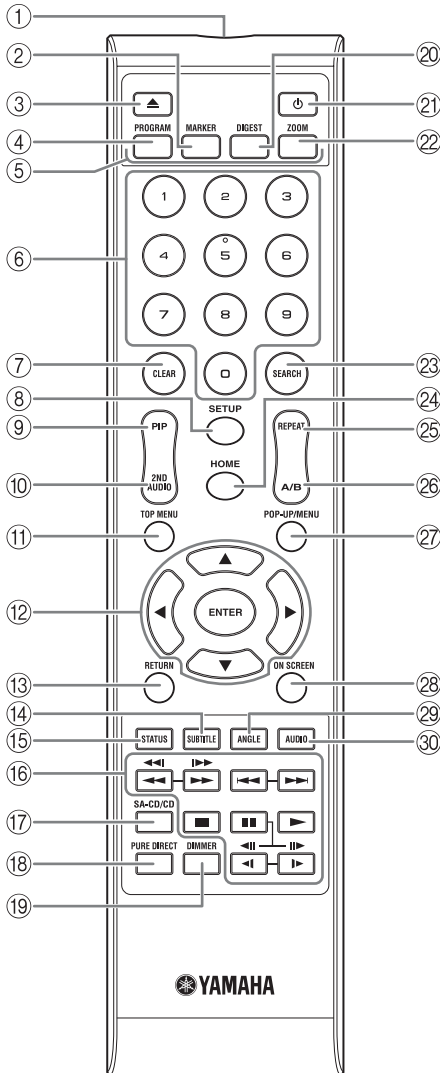
Approximate operating range of remote control





Remote control

Note

-  will appear on the top left corner of the screen when the pressed button is not available.



- ① **Infrared signal transmitter:** Outputs infrared signal. Aim this window to the remote control sensor (p. 5).
- ② **MARKER DVD VIDEO:** Sets Bookmark (p. 24) at a specified point of a movie. After Bookmark is set, to select the set point you want to jump to, press **DIGEST**. You can set up to 12 Bookmarks.
- ③ **▲:** Opens/closes the disc tray.
- ④ **PROGRAM DVD CD:** Sets the order of playback (p. 24). You can set up to 15 tracks (for an audio disc) or titles/chapters (DVD-Video).
- ⑤ **Color buttons BD:** Use these buttons according to on-screen instructions.
- ⑥ **Number buttons:** Enters numbers, or during playback, jumps to the track/chapter corresponding to the number you input. These buttons may not be available depending on the disc type and playback condition.
- ⑦ **CLEAR:** Clears entered number/set item.
- ⑧ **SETUP:** Displays SETUP menu screen (p. 26).
- ⑨ **PIP BD:** Turns on/off the Picture in Picture (p. 25). PIP Mark () is displayed on the screen when this function is available. You can also select this item from On Screen menu (p. 22).
- ⑩ **2ND AUDIO BD:** Selects the secondary audio of the Picture in Picture (p. 25) or audio commentaries. The Secondary Audio Mark () is displayed on the screen when this function is available (p. 33). You can also select this item from On Screen menu (p. 22).

Note

- PIP Mark is displayed only when the PIP Mark is set to on (p. 30).

Note

- Secondary Audio Mark is displayed only when Secondary Audio Mark is set to on (p. 30).

- ⑪ **TOP MENU** **BD** **DVD**: Displays the top menu screen (p. 41) if the disc contains a menu. Select the desired item using **▲/▼/◀/▶** and **ENTER**.

Note

– Specific operations may be different depending on the disc. Follow the instructions of each menu screen.

- ⑫ **Cursor buttons (▲/▼/◀/▶)**: Moves the focus in the menu screen.
ENTER: Selects the focused menu/item.
- ⑬ **RETURN**: Returns to the previous menu or screen, etc.
- ⑭ **SUBTITLE** **BD** **DVD** **VIDEO**: Changes subtitle languages (p. 41) if available. You can also select this item from On Screen menu (p. 22).
- ⑮ **STATUS**: Displays the playback information (p. 23).
- ⑯ **Control buttons**

BD **DVD** **CD** **VIDEO** **MUSIC** **PHOTO**

◀◀/▶▶: Searches backward/forward. The search speed will change each time you press the button (search backward/forward: 5 steps each). Press **▶** to resume normal playback.

◀◀/▶▶ **BD** **DVD** **CD** **VIDEO** **MUSIC**:

Press and hold for instant search/replay. Instant search skips the content 30 seconds. Instant replay replays the content from 10 seconds before.

◀◀/▶▶: Skips backward/forward.

■: Stops playback. To stop playback completely, press this button twice.

■: Pauses playback.

▶: Plays back contents.

◀ (**◀||**) / **▶** (**||▶**)

BD **DVD**: Performs slow backward/forward. Slow playback speed will change each time you press the button (slow backward/forward: 4 steps each).

These buttons also perform frame advance/reverse playback during pause.

Press **▶** to resume normal playback.

Many DVD-Audio discs include slide show and page turn capabilities. Press **◀/▶** to move to a previous/next page. This function is only for DVD-Audio.

Notes

- Some BD/DVD discs are not compatible with frame advance/reverse playback.
- Depending on the disc, this Player resumes playback from the point that where the Player was previously stopped. To play back from the beginning, press **■** and then **▶**.

- ⑰ **SA-CD/CD**: Switches the playback layer of a hybrid SA-CD between SA-CD and CD (p. 4).

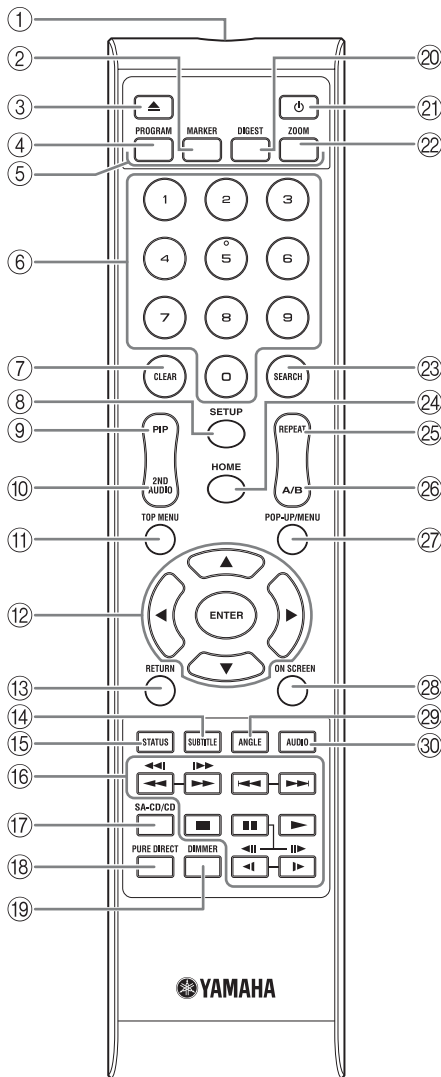
Hint

- The SA-CD/CD indicator (p. 5) on the front panel lights up when an SA-CD is loaded and the SA-CD layer is selected (p. 33).

Notes

- Audio signals are only output from the AUDIO OUT jacks (p. 11) while the SA-CD layer is selected.
 - Audio signals recorded in DSD multi-channel format cannot be played on this Player.
- ⑱ **PURE DIRECT**: Changes Pure Direct mode. Pure Direct mode shown below will change each time you press the button. Pure Direct mode improves audio quality. PURE DIRECT on the front panel lights up when Pure Direct mode is set to mode 1/mode 2.
Mode 1: Front panel display is turned off, and video signals are not output. This mode is suitable listening audio.
Mode 2: Front panel display is turned off, and video signals from other than HDMI terminal are not output. This mode is suitable for watching movies with high quality sound.
off: Normal play back.
- ⑲ **DIMMER**: Changes brightness of the front panel display in 5 steps.
- ⑳ **DIGEST** **PHOTO**: Shows 12 photo thumbnails. When thumbnails are displayed, you can proceed to the next/previous page with **◀◀/▶▶**.
DVD **VIDEO**: Displays Bookmark select bar (p. 24).
- ㉑ **⏻**: Turns this Player on or sets it to the standby mode.
- ㉒ **ZOOM** **DVD** **VIDEO** **PHOTO**: Zooms in/out. The size of the screen will change each time you press the button (zoom in/out: 3 steps each).

Continued to the next page. ➔



- 23 **SEARCH** **BD DVD CD VIDEO MUSIC** :
Jumps to a specified point during playback. For details on this function, refer to “Using search” (p. 24). You can also select this item from status menu (p. 23).
 - 24 **HOME** : Displays the HOME menu screen (p. 19).
 - 25 **REPEAT** **BD DVD CD VIDEO MUSIC** :
Changes repeat mode. Repeat mode shown below will change each time you press the button.
 - : Repeats the title being played back.
 - : Repeats the chapter being played back.
 - : Repeats all tracks/files on the disc/folder.
 - : Repeats the track/file being played back.
 - 26 **A/B** **BD DVD CD VIDEO MUSIC** : Plays back a specific part you want to repeat.
 - 1 Press **A/B** at the scene where you want to set the start point. “A-” is displayed on the screen.
 - 2 Press **A/B** again at the scene where you want to set the end point. “A-B” is displayed on the screen. Repeat playback starts.
 - 3 To cancel the repeat playback, press **A/B**. “A-B” disappears and the repeat playback is finished.
- Note**
- This function cannot be performed depending on the specifications of the disc.
- 27 **POP-UP/MENU** **BD DVD** : Displays pop-up menu. The menu contents displayed vary depending on the disc. For details on how to see and operate the pop-up menu, refer to the manual for the disc. The top menu screen may be displayed by pressing **POP-UP/MENU** depending on the DVD.
 - 28 **ON SCREEN** : Displays On Screen menu (p. 22).
 - 29 **ANGLE** **BD DVD** : Changes the camera angle if video is recorded with multiple angles. The Angle Mark () is displayed on the screen when this function is available. You can also select this item from On Screen menu (p. 22).
- Note**
- Angle Mark is displayed only when the Angle Mark is set to on (p. 30).
- 30 **AUDIO** **BD DVD** : Changes the audio language or format. You can also select this item from On Screen menu (p. 22).

ID function

You can change the remote control ID to prevent unwanted operation of the other Yamaha player such as DVD player. If you have changed the remote control ID, make sure that you select the same ID for the main unit. The default setting is ID1.

1 Remote control setting

To change the ID from ID1 to ID2, press and hold the red color button and **2** of number button simultaneously for 3 seconds. To change the ID from ID2 to ID1, press and hold the red color button and **1** of number button simultaneously for 3 seconds.

2 Main unit setting

Press and hold **|◀◀/◀◀** and **▶▶/▶▶|** on the front panel simultaneously for 2 seconds to display current ID when:

- No disc is inserted in this Player.
- The disc tray is closed.
- Playback is stopped.
- “NO DISC” is displayed on the front panel display.

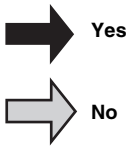
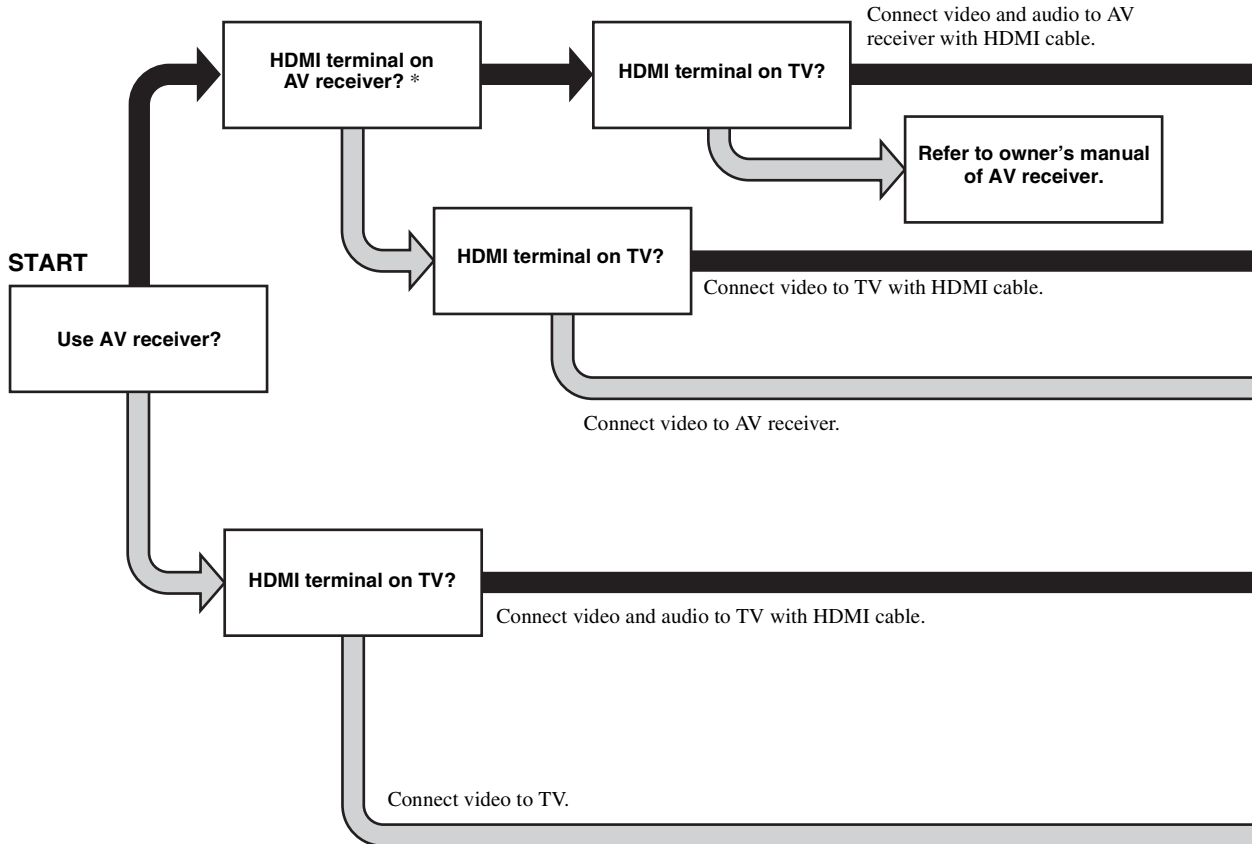
Keep pressing and holding the keys for another 2 seconds to change the ID between ID1 and ID2.

Note

- If the remote control is without batteries for a few minutes or if exhausted batteries remain in the remote control, the remote control ID is automatically set to ID1. If you want to use the remote control in ID2 setting, install new batteries and set the remote control ID again.

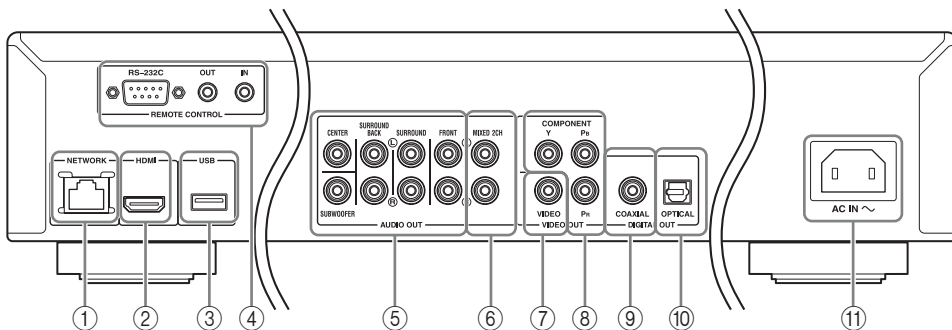
INTRODUCTION TO CONNECTIONS

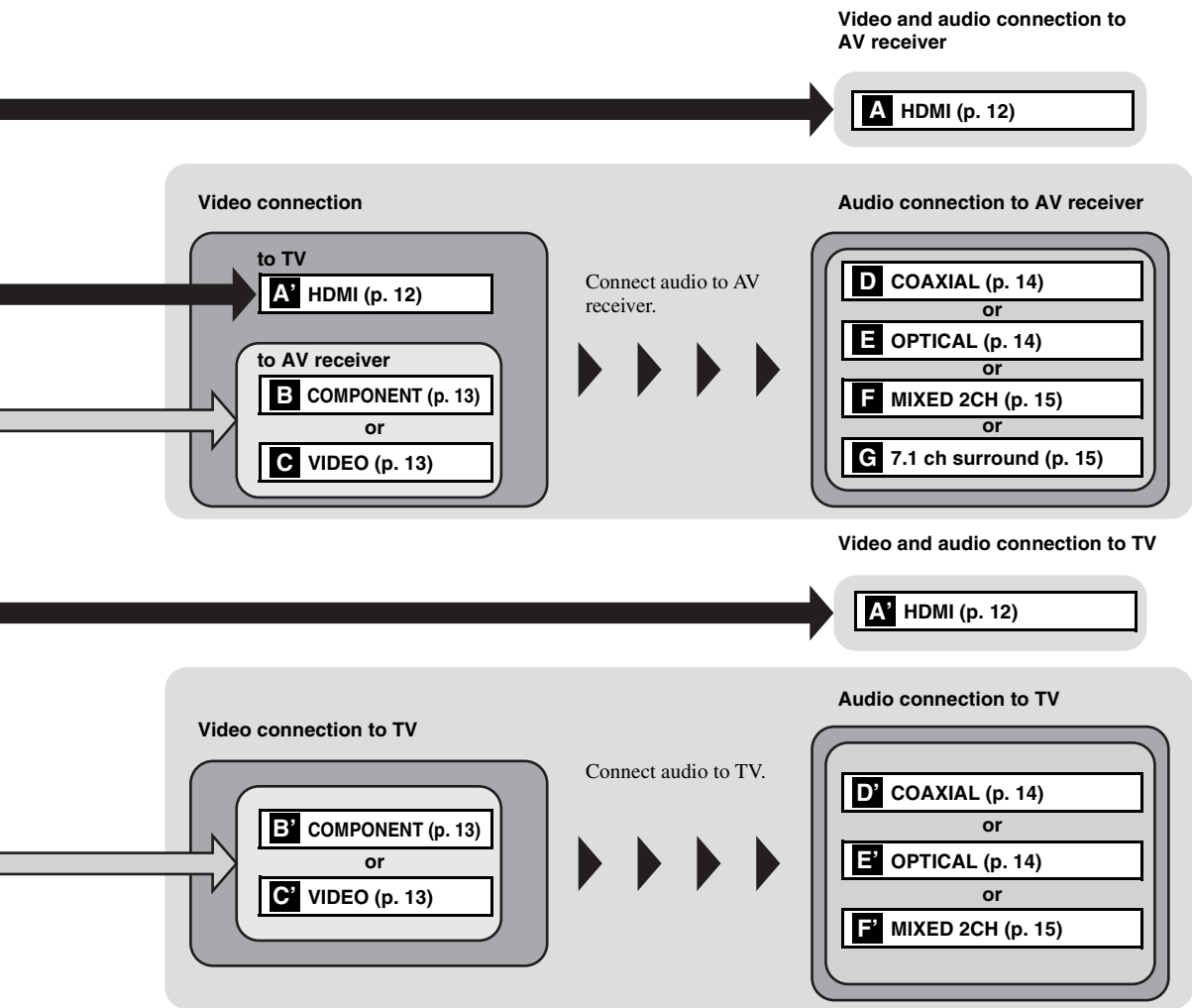
Find the corresponding connection method on your video/audio equipment. We recommend that you use the HDMI terminal which provides high quality digital audio and video on a single connection. If you use the other terminals/jacks, connect the video first. Then connect the audio.



* When you connect to an AV receiver that cannot output the sound input via its HDMI terminal, refer to the owner's manual of your AV receiver.

■ Rear panel





- ① NETWORK (p. 16)
- ② HDMI (p. 12)
- ③ USB port (p. 16)
- ④ REMOTE CONTROL (IN/OUT/RS-232C) (p. 17)
- ⑤ 7.1 ch surround (AUDIO OUT) (p. 15)

- ⑥ MIXED 2CH (AUDIO OUT) (p. 15)
- ⑦ VIDEO (p. 13)
- ⑧ COMPONENT (p. 13)
- ⑨ COAXIAL (p. 14)
- ⑩ OPTICAL (p. 14)
- ⑪ AC IN (p. 17)

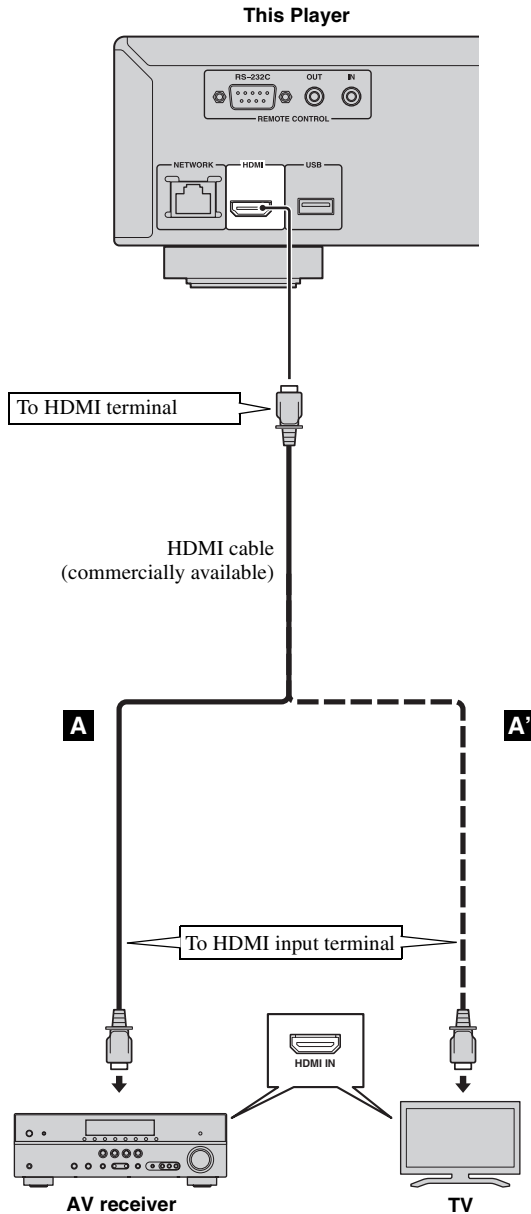
HDMI CONNECTION

■ Connecting to the HDMI terminal

- You can enjoy high quality digital picture and sound through the HDMI terminal.
- Firmly connect an HDMI cable (commercially available) to the HDMI terminals.
- See page 34 for information on the audio/video output formats.
- Use HIGH SPEED HDMI cables that have the HDMI logo (as shown on the back cover).

Caution!

Do not connect the power cable of this Player until all connections are completed.



Hints

- When you use the HDMI Control function, refer to the "HDMI Control" (p. 29).
- For information on the output mode of HDMI terminal, refer to the "HDMI" (p. 33).

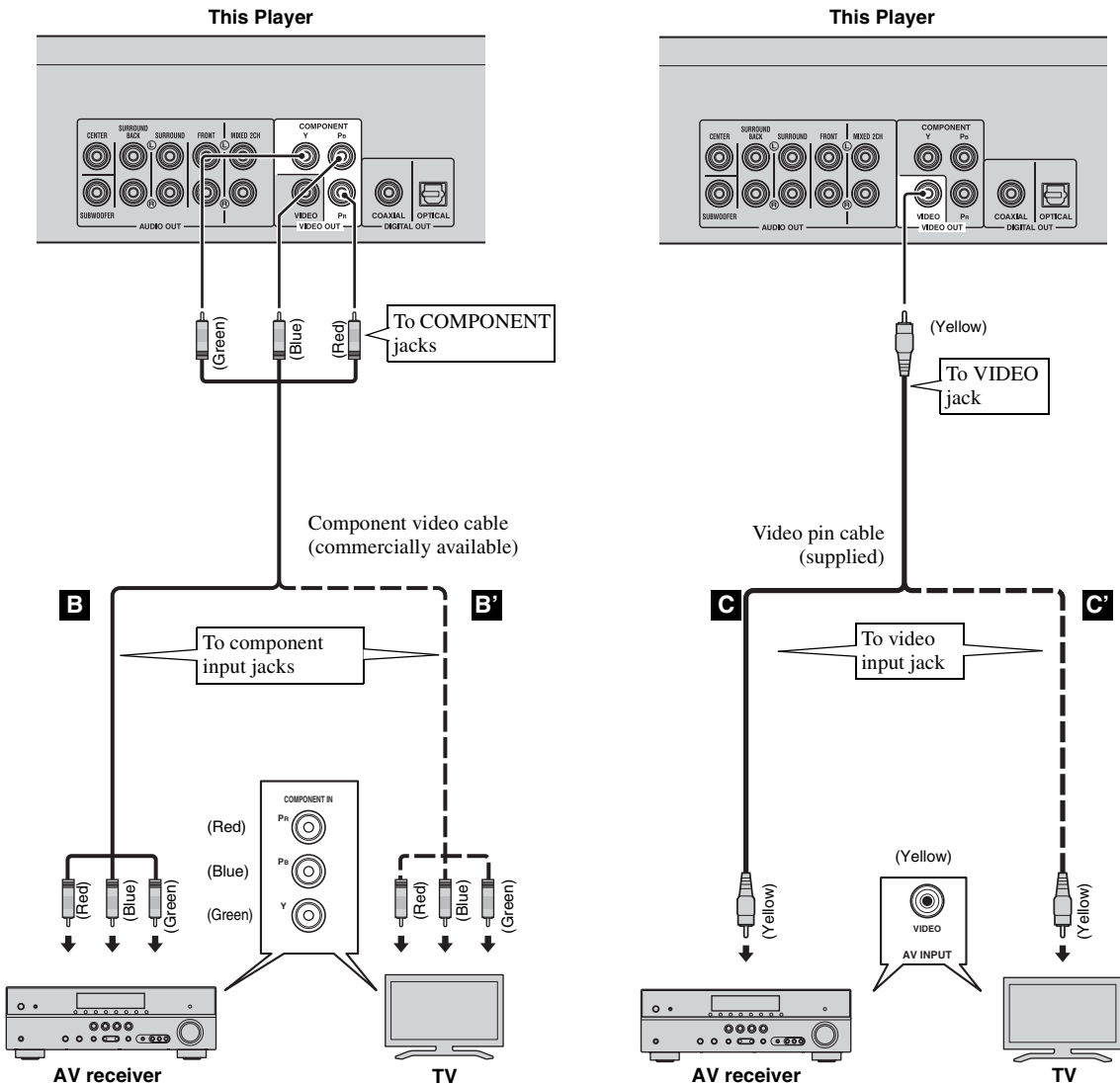
VIDEO CONNECTIONS

■ Connecting to the component/video jack

- You can enjoy accurate color reproduction and high quality images through the component jacks.
- Firmly connect a component video cable (commercially available) or a video pin cable to the COMPONENT jacks/ VIDEO jack.
- See page 35 for information on the video output formats.

Caution!

Do not connect the power cable of this Player until all connections are completed.



Note

- If you play back the image via VCR, the image may deteriorate due to the copy guard function.

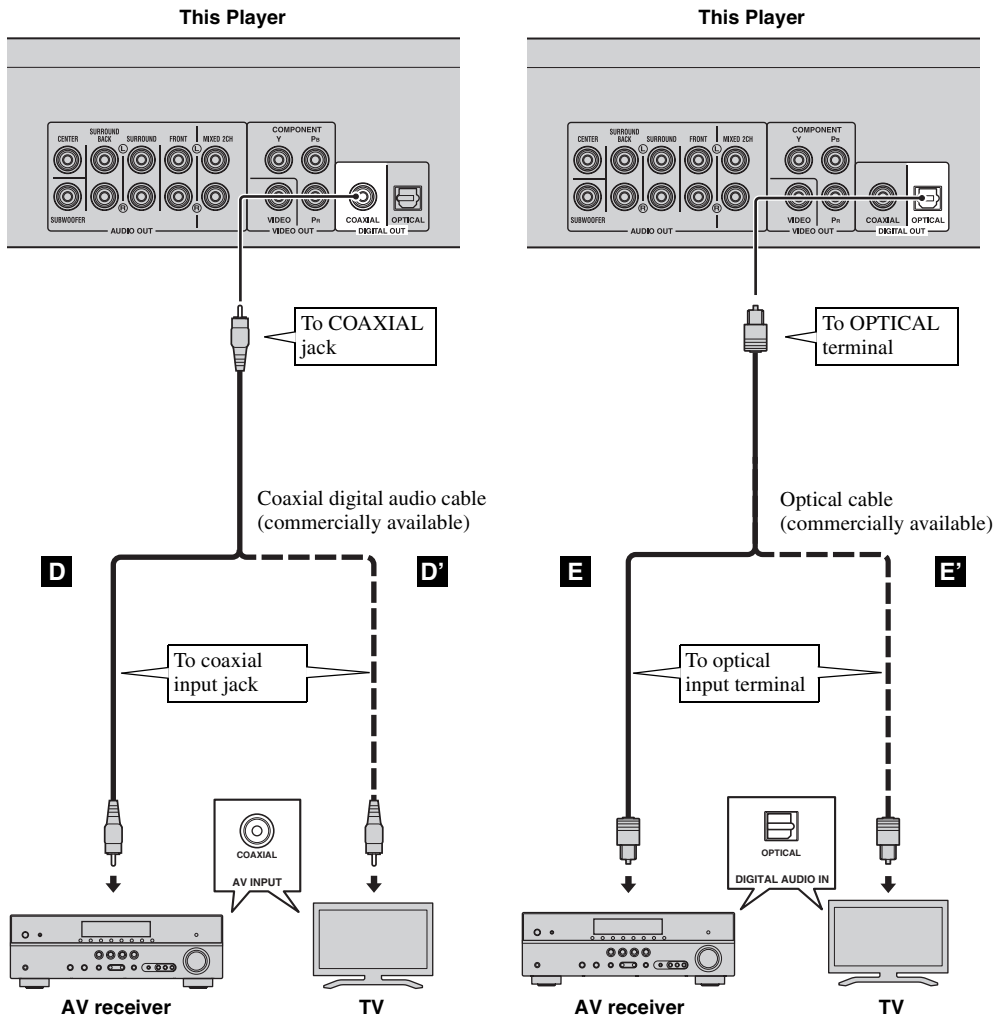
AUDIO CONNECTIONS

■ Connecting to the digital audio jack/terminal

- You can connect audio equipment or the TV to the COAXIAL jack/OPTICAL terminal.
- Firmly connect a Coaxial digital audio cable (commercially available) or optical cable (commercially available) to the coaxial digital audio jack or optical digital audio terminal.
- See page 34 for information on the audio output formats.

Caution!

Do not connect the power cable of this Player until all connections are completed.



Hint

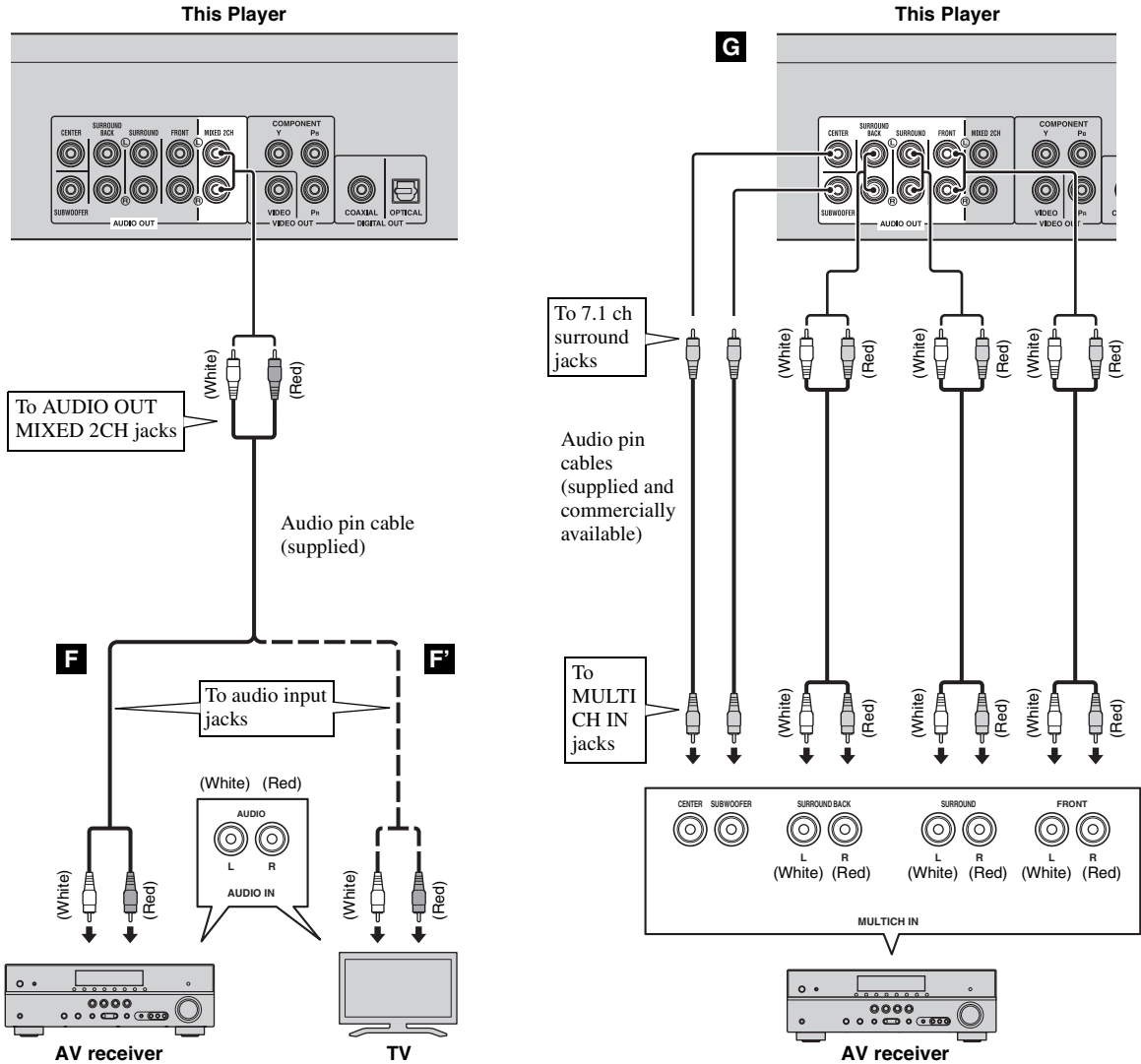
- For information on the output mode of COAXIAL jack/OPTICAL terminal, refer to the “Coaxial/Optical” (p. 33).

■ Connecting to the audio jacks

- You can connect audio equipment or the TV to the MIXED 2CH/7.1 ch surround jacks.
- Firmly connect audio pin cables (supplied and commercially available) to the MIXED 2CH jacks or 7.1 ch surround jacks.
- See page 34 for information on the audio output formats.
- If you want to reproduce multi-channel SA-CD and DVD-Audio, connect 7.1 ch surround jacks to the corresponding input jacks of your AV receiver using commercially available audio pin cables.

Caution!

Do not connect the power cable of this Player until all connections are completed.



Hints

- You can connect a subwoofer to the SUBWOOFER jack directly. When you connect TV to this Player directly, connect an active subwoofer such as Yamaha Active Servo Processing Subwoofer System to this jack.
- To output the audio signal from the MIXED 2CH/7.1 ch surround jacks, refer to "Speaker Setting" (p. 33).

NETWORK AND USB CONNECTION

■ Connecting to the NETWORK terminal and USB port

- PC contents can be played back by connecting this Player to the network.
- You can enjoy a variety of contents with interactive functions by connecting to the internet when playing BD-Live compatible discs. Refer to page 25 regarding further information on BD-Live functions.
- You can connect a USB memory device (2 GB or greater and formatted with FAT 32/16) for BD Local Storage to the USB port on the rear panel (or front panel) of the player to save the BD-Live data or to upgrade the software of this Player. To save data on the USB memory device on the front panel, refer to “Local Storage” (p. 29).
- Firmly connect a network cable (commercially available) and a USB memory device (commercially available) to the NETWORK terminal and USB port.
- Use only an STP (shielded twisted pair) network cable.
- When using the internet, a broadband internet connection as shown below is required.
- Connect the other connector of the network cable to the hub/broadband router.

Before using the USB memory device

CAUTION:

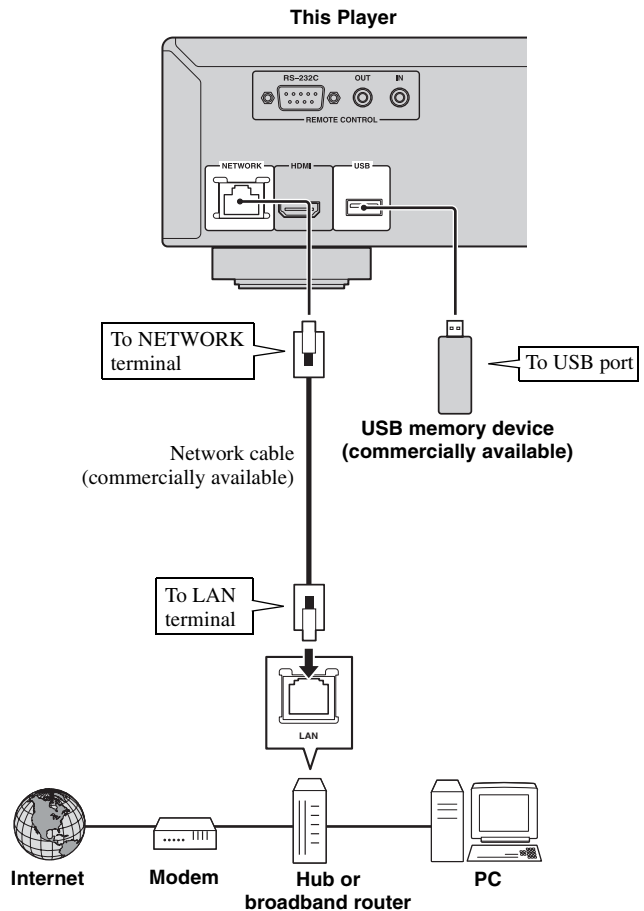
- Do not remove the USB memory device or unplug the power cable while the operations for Local Storage (p. 29) or software upgrade are being performed.
- Do not use a USB extension cable when connecting a USB memory device to the USB port of the Player. Using a USB extension cable may prevent the Player from performing correctly.

Note

- Yamaha cannot guarantee that all brands' USB memory devices will operate with this Player.

Notes

- When using a broadband internet connection, a contract with an internet service provider is required. For more details, contact your nearest internet service provider.
- Refer to the operation manual of the equipment you have as the connected equipment and connection method may differ depending on your internet environment.
- Use a network cable/router supporting 10BASE-T/100BASE-TX.



After connecting

- When you set the Network setting manually, refer to “Network” (p. 31).
- To play back the PC contents on your network, refer to “Using network content” (p. 21).

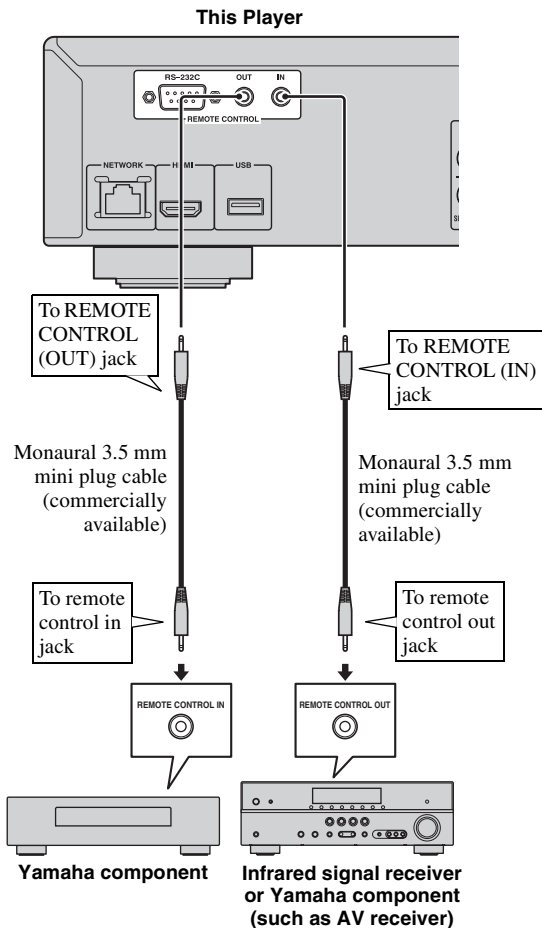
OTHER CONNECTIONS

■ Connecting to the REMOTE CONTROL jacks

- You can transmit and receive the remote control signals by connecting to the REMOTE CONTROL (OUT/IN) jacks.
- Firmly connect monaural 3.5 mm mini plug cables (commercially available) to the REMOTE CONTROL (OUT/IN) jacks.
- If your AV receiver is a Yamaha product and has the capability to transmit SCENE control signals, you can control the Player with the SCENE function.

Caution!

Do not connect the power cable of this Player until all connections are completed.



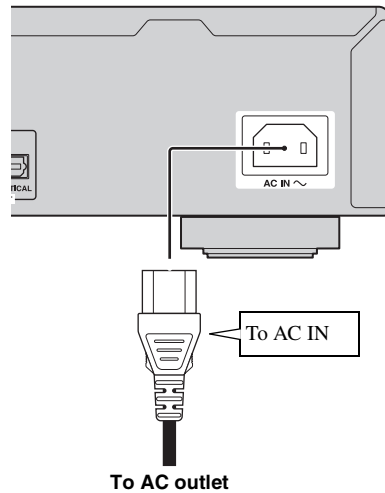
Hints

- For details about the SCENE function, refer to the owner's manual supplied with your Yamaha AV receiver.

- You can connect a Yamaha component (such as CD player) supports the SCENE function to the REMOTE CONTROL (OUT) jack of this Player.
- The RS-232C terminal is a control expansion terminal for commercial use. Consult your dealer for details.

■ Connecting the power cable

- After all connections are completed, plug the supplied power cable into the AC IN on the rear of the Player. Then plug into AC outlet.



Note

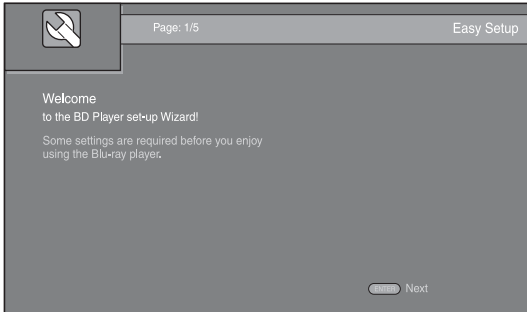
- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH THE UN-INSULATED PARTS OF ANY CABLES WHILE THE POWER CABLE IS CONNECTED.

INITIAL WIZARD/EASY SETUP

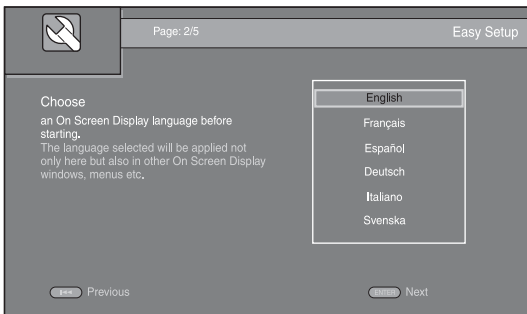
■ Setting with the Initial Wizard/ Easy Setup

Initial Wizard/Easy Setup allows you to set language, resolution, and screen aspect ratio easily. Initial Wizard screen is displayed when you turn this Player on for the first time after purchase or upgrade. Same setting can be performed from SETUP menu → System → Easy Setup.

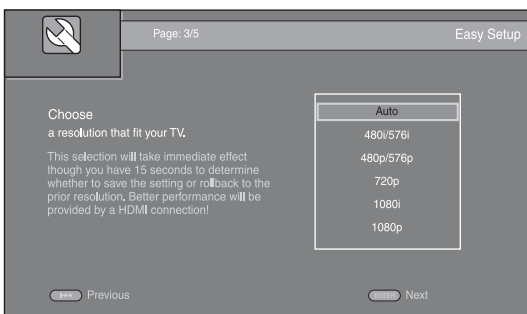
- 1 When Easy Setup screen is displayed, Press **ENTER** to start Easy Setup.



- 2 Press **▲/▼** to select the language you want to display on the screen, then press **ENTER**.

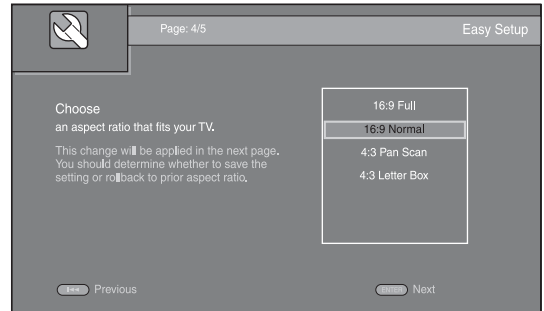


- 3 Press **▲/▼** to select the resolution, then press **ENTER**. For details on setting items, see “Resolution” (p. 31).



- 4 Press **▲/▼** to select the screen aspect ratio, then press **ENTER**. For details on setting items, see “TV Screen” (p. 31).

Easy Setup is completed.



Note

- When no picture is displayed after Initial Wizard/Easy Setup is completed, refer to “TROUBLESHOOTING” (p. 38).

HOME/MEDIA MENU

HOME and MEDIA menus allow you to browse and play multi-media files on data discs, USB memory devices and your network.

Note

- For details on playable disc and format, see page 3.

■ Playing back photo/music/video

Basic operation

▲/▼: Moves the focus.

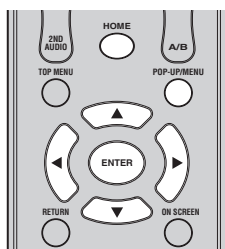
◀: Returns to the parent folder.

▶: Checks/unchecks single folder/file.

HOME: Moves to/exits HOME menu screen.

ENTER: Confirms the folder/file.

POP-UP/MENU: Opens Edit Menu.



Icons on the top of MEDIA menu

: Plays back the disc on the tray, or displays contents in the data disc.

: Displays contents in the USB memory device connected to the USB port.

: Searches for a DLNA (p. 21) server on the network.

: Displays contents on the connected DLNA server.

Common operations for playing back files in a selected folder

Example: Selecting a movie file on a USB memory device

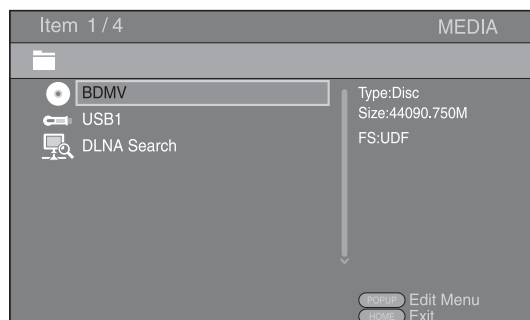
Note

- Stop the playback of the video before you move to MEDIA menu screen.

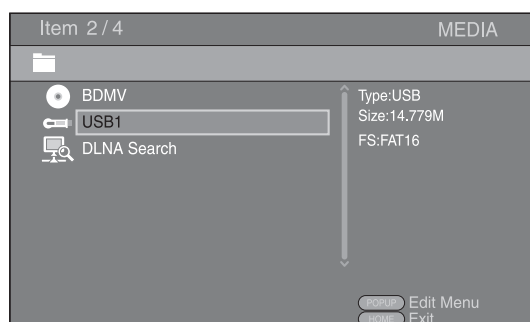
- 1 Press **HOME** to move to HOME menu screen. Press **◀▶** to select MEDIA, then press **ENTER**.



- 2 MEDIA screen appears.

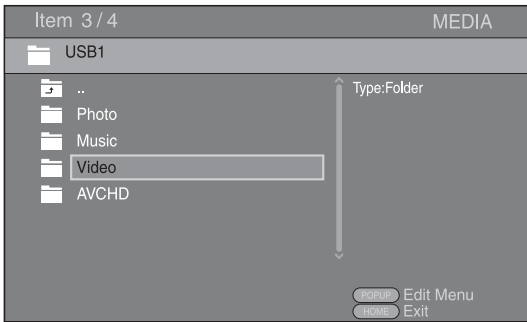


- 3 Select the item which contains the file you want to play back, then press **ENTER**.



- 4 Select the Photo, Music, Video or AVCHD folder you want to play back, then press **ENTER**.

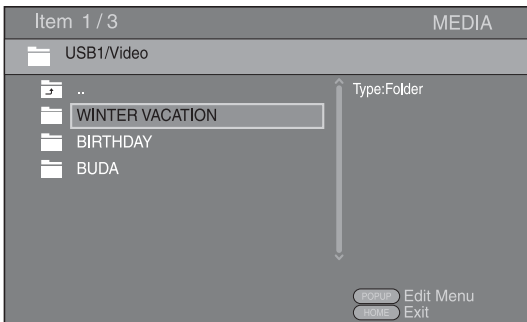
To return to the parent folder, press **◀** or select **⬆**.



Note

- Note that the only the file type selected on this step will be displayed in the following step. For example, if you selected Photo folder in this step, only photo files are displayed after this step. When you play back other than photo, return to this hierarchy and select file type again.

- 5 Select the folder(s) containing the file you want to play back.

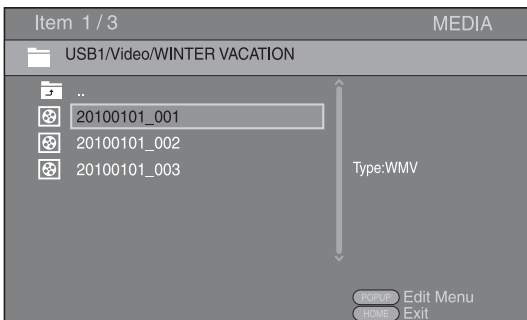


- 6 Select the file you want to play back, then press **ENTER**.

When a video file is selected, playback starts.

When a music file is selected, status screen is displayed and playback starts.

When a photo file is selected, slide show starts.



Hint

- To enjoy slide show with music, press **HOME** to return to the HOME menu screen while music is played back, and select photo file.

Note

- The displayed file may not be played back depending on the content.

Operations for viewing photos

While viewing photos, the buttons on the remote control work as shown below.

- : Stops slide show and returns to the file browser.
- ⏏**: Pauses a slide show.
- ▶**: Plays a slide show.
- ▶▶**: Moves to a next photo.
- ◀◀**: Moves to a previous photo.
- ▶▶▶**: Makes a slide show faster in 3 steps.
- ◀◀◀**: Makes a slide show slower in 3 steps.
- ▲**: Inverts a photo.
- ▼**: Reflects a photo.
- ◀**: Rotates a photo counterclockwise.
- ▶**: Rotates a photo clockwise.
- ZOOM**: Zooms in/out a photo (zoom in/out: 3 steps each).
 - ▲/▼/◀/▶**: Pan in zoom mode when a photo is larger than the screen.
- DIGEST**: Switches to thumbnail mode (p. 7). When thumbnails are displayed, you can proceed to the next/previous page with **◀◀◀/▶▶▶**.

■ Using network content

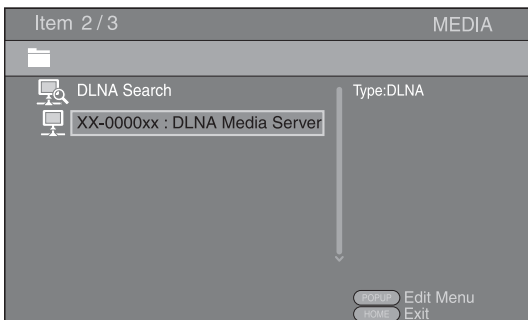
This Player is a DLNA certified digital media player. You can manage photo, music and video contents stored on DLNA servers on your home network.

About DLNA

DLNA (Digital Living Network Alliance) provides easy sharing of digital media through network in the home, and you can enjoy digital contents stored on your DLNA-server-software-installed PC or other DLNA compatible device with your TV via this Player. To connect this Player to your DLNA servers, some settings for the DLNA server or device are required. For details, refer to your DLNA server software or DLNA device.

Playing back shared contents

- 1 To play back files on your PC, install a DLNA server software, such as Windows Media Player 12, and share files you want to play back.
- 2 Turn on the PC with DLNA server software installed or the DLNA device connected to your home network.
- 3 Press **HOME** to display HOME menu screen. Then select **MEDIA** to move to MEDIA menu. The DLNA servers connected to the network are listed on the screen.



Notes

- If your DLNA server is not listed, select DLNA Search to find it.
 - Depending on the DLNA server, this Player may need to be permitted from the server.
 - To play the file on the DLNA server, this Player and the server must be connected to the same access point.
 - The file requirements may not always be compatible. There may be some restrictions depending on file features and DLNA sever capability.
- 4 Select the file you want to play back.

Notes

- The playback and operating quality may be affected by your home network condition.
- The files from removable media such as USB memory devices or DVD-drive on your media server, may not be shared properly.

ADVANCED PLAYBACK OPERATION

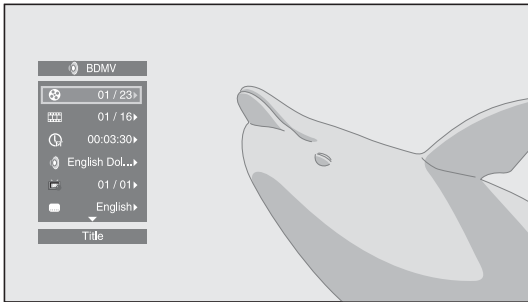
This chapter explains playback of commercially available BD and DVD discs, SA-CDs, CDs, and recorded DVD-RW/R discs.

Note

- For the basic playback operation, see page 6.

■ On Screen menu

To display On Screen menu, press **ON SCREEN**. After that, press **▲/▼/◀/▶** to select an item, then press **ENTER** to operate the desired function.



On Screen menu contains following items.

Title **BD** **DVD** **VIDEO**: Shows the title number being played back. You can skip to the desired title by selecting it from this item.

Chapter **BD** **DVD** **VIDEO**: Shows the chapter number being played back. You can skip to the desired chapter by selecting it from this item.

Track/File **CD** **VIDEO** **MUSIC** **PHOTO**: Shows track/file number being played back. You can skip to the desired track/file by selecting it from this item.

Time **BD** **DVD** **CD** **VIDEO** **MUSIC**: Shows the playback time. Select display type from the following:

- Elapsed playback time of the title, chapter, disc, track or file
- Remaining playback time of the title, chapter, disc, track or file

Mode/Play Mode

DVD **CD** **VIDEO** **MUSIC** **PHOTO**: Shows current playback mode. You can select playback mode from the following:

- Normal: Normal playback.
- Shuffle: Each track/file must play once without repetition.
- Random: Real random playback. Repetition may happen.

Hint

- When a DVD-Video is played back, you can select Random All, Random TT (title), Random CH (chapter), Shuffle All, Shuffle TT (title) and Shuffle CH (chapter).

Audio **BD** **DVD** **VIDEO**: Shows audio language/signal of BD/DVD disc currently selected. You can select the desired type of audio.

Angle **BD** **DVD**: Shows the currently-selected angle number. If the video is recorded with multiple angles, you can change the angle.

Subtitle **BD** **DVD** **VIDEO**: Shows the currently-selected subtitle language when the subtitle is provided.

Subtitle Style **BD**: Shows the currently-selected subtitle style. This function is available only for Video-file external subtitle. You can select the desired text style of subtitle.

Bitrate **BD** **DVD** **CD** **VIDEO** **MUSIC**: Shows bitrate of the audio/video signal.

Second Video **BD**: Turns the PIP on/off (p. 6).

Second Audio **BD**: Turns the secondary audio on/off (p. 6).

Ins Search

BD **DVD** **CD** **VIDEO** **MUSIC**: Skips 30 seconds.

Ins Replay

BD **DVD** **CD** **VIDEO** **MUSIC**: Replays the content from 10 seconds before.

Slide Show **PHOTO**:

Shows slide show speed. You can select the slide show speed from Slow/Medium/Fast.

Transition **PHOTO**: Shows how photo appears on the screen. You can select the transition type.

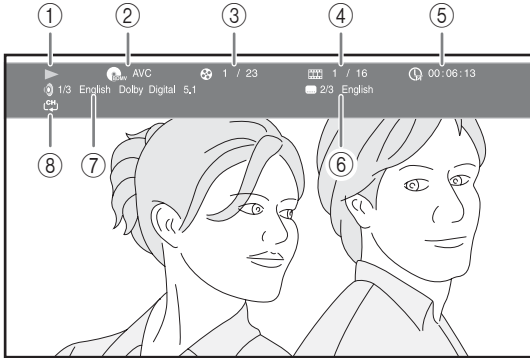
Code Page **VIDEO**: Selects character code of subtitle you added to DivX video (p. 40).

■ Status menu

This shows various settings, such as subtitles, angle settings and the title/chapter/track number currently played back. To display status menu, press **STATUS**. Status menu contains following menus.

When playing BD-Video/DVD-Video or video file

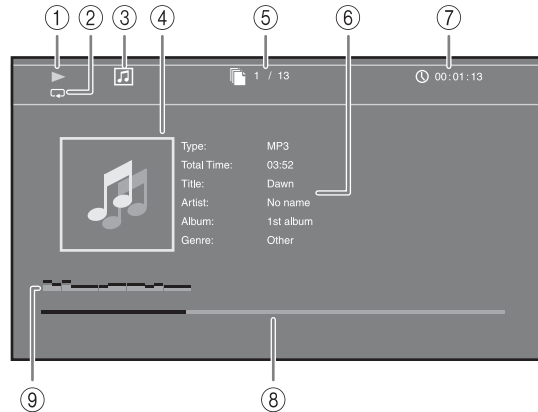
Example: Icons when playing BD



- ① **(Playback status)**
- ② **(Disc type/video file icon)**
- ③ **(Title number being played):** You can jump to specified title with **SEARCH** button (p. 8).
- ④ **(Chapter number being played):** You can jump to specified chapter with **SEARCH** button (p. 8).
- ⑤ **(Elapsed playback time):** You can jump to specified point with **SEARCH** button (p. 8).
- ⑥ **(Subtitle currently selected):** You can change the subtitle language with **SUBTITLE** button.
- ⑦ **(Audio currently selected):** You can change the audio language or format with **AUDIO** button.
- ⑧ **(Repeat mode):** Shows current repeat mode (p. 8).

When playing audio disc or music file

Example: Icons when playing music file



- ① **(Playback status)**
- ② **(Repeat mode):** Shows current repeat mode (p. 8).
- ③ **(Disc type/music file icon)**
- ④ **(Artwork) MUSIC:** Displays artwork if the file contains it.
- ⑤ **(Track/file number being played):** You can jump to specified track with **SEARCH** button (p. 8).
- ⑥ **(Information) MUSIC:** Displays music information if the file contains them.
- ⑦ **(Elapsed playback time):** You can jump to specified point with **SEARCH** button (p. 8).
- ⑧ **(Progress bar) MUSIC:** Shows progress status of current song.
- ⑨ **(Audio level meter):** displays current volume level.

When viewing photo



- ① **(Playback status)**
- ② **(Photo file icon)**
- ③ **(File number being displayed)**
- ④ **(Repeat mode):** Shows current repeat mode (p. 8).
- ⑤ **(Slide show speed)**

■ Using Bookmark DVD VIDEO

This allows you to set Bookmark at the specified point of the video. After Bookmark is set, you can move to the point you set using this function. You can set up to 12 Bookmarks.

- 1 Press **MARKER** during playing back the movie to set Bookmark. Bookmark number, and the status are displayed.



- 2 After Bookmark is set, press **DIGEST** to display Bookmark select bar.



- 3 Press **◀/▶** to select the Bookmark you want to play back, then press **ENTER**. Press **CLEAR** to delete the selected Bookmark.

Note

- When playback is finished (e.g., ejecting the disc, pressing **■** twice), Bookmarks are automatically deleted.

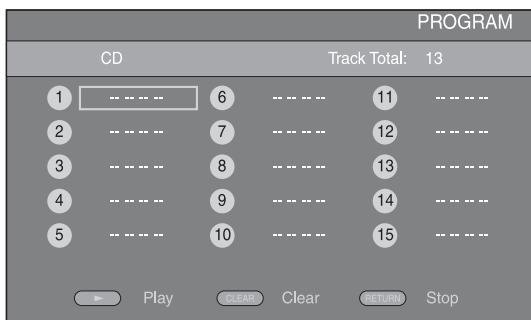
■ Program play DVD CD

This allows you to program playback order of audio disc tracks or DVD chapters.

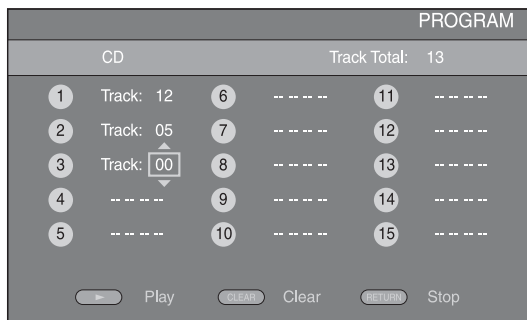
Press **PROGRAM** during playback to display the PROGRAM window to program playback order. You can program up to 15 tracks/chapters.

Example: Programming the playback order of CD tracks

- 1 Press **PROGRAM** during playback.



- 2 Press **ENTER** to program playback order. For audio disc, press **▲/▼** to select a desired track then press **ENTER**. For DVD-Video disc, select a desired title (shown as TT) and chapter (shown as CH) instead of a track. To clear a set track, select the track you want to clear, then press **CLEAR**. Press **RETURN** to cancel the Program play.



- 3 After programming is finished, press **▶** to set and start program playback.
- 4 To cancel program play, stop playback completely by pressing **■** twice.





■ Using search

BD DVD CD VIDEO MUSIC




This allows you to jump to the specified point during playback.

- 1 Press **SEARCH** during playback. Status bar appears.
- 2 Press **▲/▼/◀/▶** to select one of the item below, then press **ENTER**.



BD DVD :

- Title number (shown as )
- Chapter number (shown as )
- Elapsed title time (shown as )
- Elapsed chapter time (shown as )

CD :

- Track number (shown as )
- Elapsed track time (shown as )
- Elapsed disc time (shown as )

VIDEO MUSIC :

- File number (shown as )
- Elapsed file time (shown as )

- 3 Press **▲/▼** or number buttons to set/adjust the value of the focused item, and press **ENTER** to jump to the specified point.
- 4 To close the status bar, press **STATUS**.

■ Enjoying BONUSVIEW and BD-Live

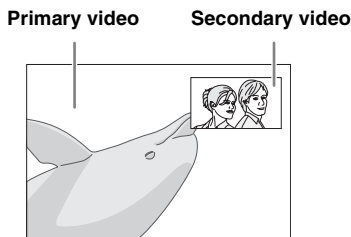
This player supports BONUSVIEW (p. 40) (BD-ROM Profile 1 Version 1.1) and BD-Live (p. 40) (BD-ROM Profile 2) playback functions.

Note

- Functions and playback method vary depending on the disc. See the guidance on the disc or the supplied user's manual.

■ Using Picture in Picture function (secondary audio/video playback)

BD-Video that includes secondary audio and video compatible with Picture in Picture can be played back with secondary audio and video simultaneously as a small video in the corner.



While PIP Mark (PIP) or Secondary Audio Mark (SA) is displayed, press PIP to turn the Picture in Picture function on/off.

Notes

- To listen to secondary audio, make sure that the Audio Output setting (Coaxial/Optical or HDMI) is set to PCM or Reencode (p. 33).
- Depending on the disc, to listen to secondary audio, you may need to set secondary audio to on on the top menu of the disc (p. 7).
- The secondary audio and video for Picture in Picture may automatically play back and be removed depending on the content. Also, playable areas may be restricted.

■ Using the feature of BD-Live

1. Set the Network setting (p. 31).

2. Connect the USB memory device to this Player (p. 16).

BD-Live data is saved in Local Storage (p. 29) (USB memory device connected to this Player). To enjoy these functions, connect a USB memory device (2 GB or greater and formatted with FAT 32/16) supporting USB 2.0 High Speed (480 Mbit/s) to the USB port (p. 16).

- BUDA folder is created automatically in the USB memory device when necessary.
- If there is insufficient storage space, the data will not be copied/downloaded. Delete unneeded data or use a new USB memory device.
- Some time may be required for the data to load (read/write).

Notes

- Yamaha cannot guarantee that all brands' USB memory devices will operate with this Player.
- Do not use a USB extension cable when connecting a USB memory device to the USB port of the player. Using a USB extension cable may prevent the player from performing correctly.

3. Play back the disc.


4. Run BD-Live according to the instructions on the disc.




Notes

- Regarding playback method of BD-Live contents, etc., perform the operations in accordance with the instructions in the BD disc manual.
- To enjoy BD-Live functions, perform the network connection (p. 16) and Network settings (p. 31).
- Refer to "BD-Live Connection" (p. 31) regarding the setup to restrict access to BD-Live contents.
- The time required to download the provided programs into the USB memory device connected to this Player varies depending on the internet connection speeds and the data volume of the programs.
- BD-Live programs provided through the internet may not be able to display the connection depending on the status (upgrading) of the provider. In such cases, take out the disc and try again.
- If the BD-Live screen does not appear for a while after you select the BD-Live function in the BD disc menu, the USB memory device may not have enough free space. In such cases, eject the disc from the player, and then erase the data in the USB memory device using the "Format" menu in the "Local Storage" (p. 29).

SETUP MENU

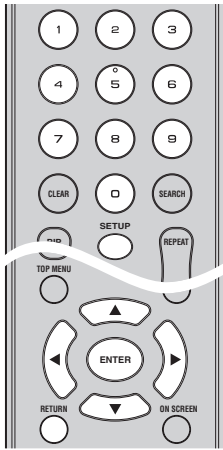
The SETUP menu enables various audio/visual settings and adjustments for functions using the remote control unit.

Menu/Submenu	Item	Function	Page
 General Setting	System		
	Screen Saver	Sets screen saver on/off.	29
	Disc Auto Playback	Sets this Player to start disc playback automatically.	29
	HDMI Control	Sets this Player to receive control signal from the remote control of your TV/AV receiver.	29
	Network Control	Sets the control via Ethernet to on/off.	29
	Load Default	Resets all settings to the default setting except Security setting.	29
	Upgrade	Performs upgrade of this Player.	29
	Easy Setup	Sets language, resolution, screen aspect ratio.	29
	Local Storage	Displays status of Local Storage (p. 29), formats Local Storage and selects the front/rear USB port for Local Storage.	29
	Language		
	OSD	Selects the language for On Screen Display.	30
	Menu	Prioritizes the language for disc menu.	30
	Audio	Prioritizes the language for audio.	30
	Subtitle	Prioritizes the language for subtitle.	30
	Playback		
	Closed Caption	Sets the closed caption to on/off.	30
	Angle Mark	Sets to display the Angle Mark when BD/DVD with multiple angles is played back.	30
	PIP Mark	Sets to display the PIP Mark when BD/DVD with Picture in Picture is played back.	30
	Secondary Audio Mark	Sets to display the Secondary Audio Mark when BD/DVD with secondary audio is played back.	30
	DivX(R) VOD DRM	Displays registration code for DivX(R) video.	30
	DVD-Audio Mode	Sets DVD-Audio mode to DVD-Audio/DVD-Video.	30
	Security		
	Change Password	Changes password for Parental Control and Country Code.	30
	Parental Control	Sets the Parental Control depending on the disc content.	30
	Country Code	Sets your Country Code.	30
	Network		
	Internet Connection	Sets the internet connection to Enable/Disable.	31
	Information	Displays network information screen.	31
	Connection Test	Performs the network connection test.	31
	IP Setting	Sets the IP setting to Auto/Manual.	31
	BD-Live Connection	Sets the BD-Live connection to Permitted/Partial Permitted/Prohibited.	31
	DLNA	Sets the DLNA to Enable/Disable.	31
	Proxy Setting	Sets the proxy setting.	31

Menu/Submenu	Item	Function	Page	
 <p>Display Setting</p>	TV	TV Screen	Sets the screen aspect ratio of the connected TV, and adjust the video output.	31
		Resolution	Selects the resolution of output video.	31
		TV System	Selects the TV System from NTSC/PAL/Multi.	32
		Color Space	Selects Color Space from RGB/YCbCr 4:4:4/YCbCr 4:2:2/ Full RGB.	32
		HDMI Deep Color	Selects HDMI Deep Color from 30 bits/36 bits/Off.	32
		HDMI 1080p 24Hz	Sets HDMI 1080p 24Hz to auto/off.	32
		Lip Sync	Adjusts the lag between video and audio, such as when the mouth movement is out of sync with the voice.	32
	Video Process	Video Mode	Adjusts the visual image.	32
		Color Adjust	Adjusts Brightness/Saturation/Hue for each color.	32
		Auto Contrast	Adjusts contrast to optimize the played back image.	32
		Noise Reduction	Sets the level of Noise Reduction.	32
		De-interlacing Mode	Sets how to detect the video signal.	32
	 <p>Audio Setting</p>	Audio Output	Coaxial/Optical	Selects the output mode of COAXIAL jack/OPTICAL terminal from Bitstream/PCM/Reencode/Off.
HDMI			Selects the output mode of HDMI terminal from Bitstream/PCM/Reencode/Off.	33
Downsampling			Selects the digital audio signal down sampling frequency from 48k/96k/192k.	33
DRC			Sets the DRC (Dynamic Range Compression).	33
SACD Output		SACD Priority	Selects a contents when Hybrid SA-CD is played back.	33
		HDMI Output	Selects the output mode of HDMI terminal from DSD/PCM when SA-CD is played back.	33
Speaker Setting		Configuration	Sets the audio output of 7.1 ch surround jack.	33
		2ch Downmix	Selects down mix method to analog 2-ch.	33
Post Process			Multi-channelizes the 2-channel audio signal.	33
 <p>System Information</p>		Displays software version and MAC address (p. 41).	33	

■ Example of SETUP menu operation

You need to call up the SETUP menu screen to perform settings for this Player. The following is the explanation for basic operations of the SETUP menu.



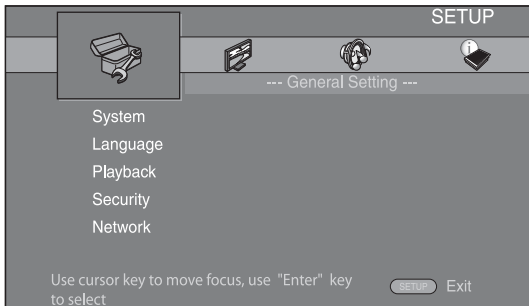
Example: Setting Parental Control

Note

- Some items cannot be set during playback. In this case, press **■** twice to stop playback completely before setting.

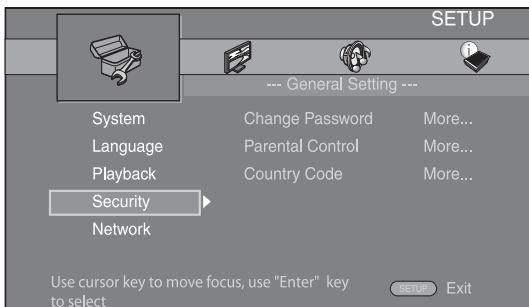
1. Display the SETUP menu screen.

Press **SETUP** to display the SETUP menu screen. Press **◀/▶** to select General Setting, then press **ENTER** or **▼**.



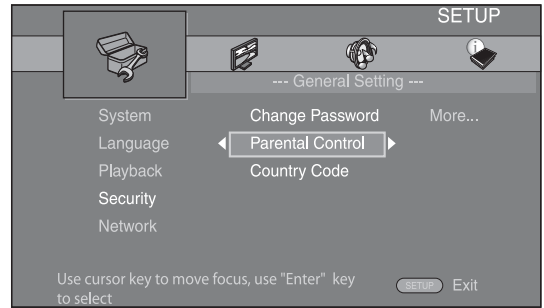
2. Select a Submenu.

Press **▲/▼** to select Security, then press **ENTER** or cursor **▶**.



3. Select a menu item.

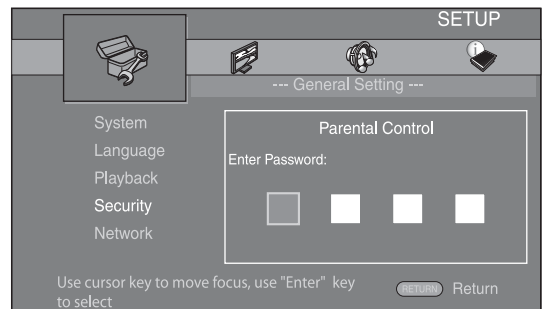
Press **▲/▼** to select Parental Control, then press **ENTER** or cursor **▶**.



4. Enter password.

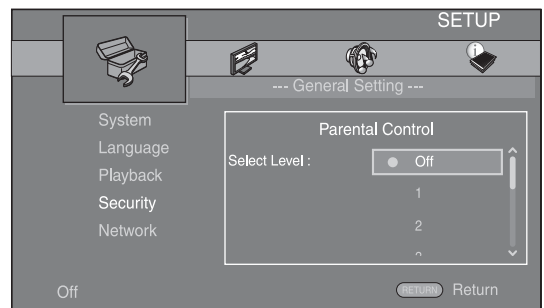
Enter your password with number buttons.

- The default password is 0000.
- You cannot move to the next setting screen until you have input the correct password.
- To change the password, refer to “Change Password” (p. 30).



5. Select a next item.

Press **▲/▼** to select the Parental Control Level for BD/DVD, then press **ENTER**.



6. Exit the menu screen.

Press **◀** to return to the previous menu.

■ General Setting

The default settings are marked with “*”.

System

Screen Saver

You can set the screen saver to on/off.

When set to on, this Player will switch to screen saver mode if there is no operation for 3 minutes. After that, this Player will turn to standby mode when there is no operation for 6 minutes.

On*, Off

Disc Auto Playback

You can set Disc Auto Playback to on/off. When set to on, a disc will play back automatically after loading.

On*, Off

HDMI Control

You can set the Player to receive control signal from a TV/AV receiver compatible with the HDMI Control function via an HDMI cable (p. 12).

On, Off*

Using HDMI Control function

Using the HDMI Control function, you can interactively operate this Player with your TV (HDMI Control function supported).

When you connect this Player to the TV compatible with the HDMI Control function using an HDMI cable and set HDMI Control in the SETUP menu to on (p. 29), you can perform the function listed below.

- Automatic input select function
When you start playback of this Player, the input selector of the TV (and an AV receiver if this Player is connected to the TV via the AV receiver) is switched to this Player automatically. TV Power is turned on automatically depending on the TV.
- Automatic power off function
When you turn off the TV while this Player is in stop mode and the SETUP menu screen is not displayed, the power of this Player is also turned off automatically.

Notes

- HDMI Control function may not work properly depending on the TV.
- Functions other than ones shown above may work depending on the TV or AV receiver.
- In order to make the HDMI Control function available, set up settings for the HDMI Control function on ALL components (this Player, TV, and AV receiver). Certain operation may also be required.
- Each function may be set independently to activate/deactivate depending on the TV.
- Refer to the operation manuals supplied with the TV and/or AV receiver for details regarding setup.

Network Control

You can set control via Ethernet to on/off. This player employs Yamaha Network Control protocol (YNC).

On, Off*

Notes

- When set to on, power consumption during standby mode increases due to network control function.
- When set to on, the system startup time is increased.

Load Default

You can reset all settings of this Player to default setting except Security setting (p. 30). For details on default settings, see pages 26-33.

Upgrade

You can upgrade the software manually from Disc, USB Storage or Network. For details on software upgrade, refer to “SOFTWARE UPGRADE” (p. 36).

Easy Setup

You can perform Easy Setup (p. 18).

Local Storage

You can display Local Storage information, format Local Storage, and select Front USB/Rear USB to save the BD-Live data.

To format (empty) the BUDA folder in the USB memory device, select Information and press **ENTER** when “Format” is focused on the screen.

Front USB, Rear USB*

Local Storage

It is used as an auxiliary memory when Blu-ray Disc is played back.

Language

OSD

You can select the language for On Screen Display which is the messages or menu displayed on the screen such as SETUP menu.

English*, Français, Español, Deutsch, Italiano, Svenska, Nederlandse, Русский

Menu

You can prioritize the language for disc menu.

English*, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Portuguese, Danish, Svenska, Finnish, Norwegian, Русский, Korean, Japanese, More

Audio

You can prioritize the audio language for BD/DVD playback. For details on setting items, see “Menu” (p. 30).

Subtitle

You can prioritize the language for Subtitle.

English, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Portuguese, Danish, Svenska, Finnish, Norwegian, Русский, Korean, Japanese, More, Off*


Playback

Closed Caption

You can set to display the closed caption (p. 40) when BD/DVD with closed caption is played back.

On, Off*

Angle Mark

You can set to display the Angle Mark () when BD/DVD with multiple angles is played back.


On*, Off

PIP Mark

You can set to display the PIP Mark () when BD with picture in picture (p. 25) is played back.

On*, Off

Secondary Audio Mark

You can set to display the Secondary Audio Mark () when BD with secondary audio is played back.

On*, Off

DivX(R) VOD DRM

You can display registration code for DivX(R) video.

DVD-Audio Mode

Some DVD-Audio discs contain the DVD-Video content in addition to the DVD-Audio content. You can select DVD-Audio mode or DVD-Video mode.

DVD-AUDIO* Both DVD-Audio/Video contents are played back. Only the DVD-Audio content may be played back depending on the disc.

DVD-VIDEO Only the DVD-Video content is played back.

Note

– This setting is only available when no disc is loaded.

Security

Change Password

You can set the password for changing the Parental Control Level and Country Code. Refer to “Parental Control” (p. 30) and “Country Code” (p. 30).

Note

– The default password is 0000.

Parental Control

In some BD/DVD discs, a control level for disc viewing is set depending on the age of the viewer. You can set the Parental Control shown on the screen depending on the disc content.

The password (see “Change Password” on p. 30) needs to be entered before the Parental Control Levels is set.

After you set the Parental Control, when you play back a disc with level higher than current Parental Control Level, or you want to change the Parental Control Level, a dialog box will pop up to ask you to enter the password.

Off*, 1 to 8

Country Code

You can set the Country Code you live in. The password (see “Change Password” on p. 30) needs to be entered before the Country Code is set. This setting may be used for rating of Parental Control and disc playback.

Network

Internet Connection

Set this item to Enable when you use BD-Live (p. 25), DLNA (p. 21) and software upgrade from the network (p. 36).

Enable*, Disable

Information

You can display network information screen. On this screen, you can view the information of Interface (Ethernet), Address Type, IP Address, Subnet Mask, Default Gateway, and DNS.

Connection Test

You can perform an internet connection test. If the test is failed, please check "IP Setting" (p. 31) and perform the test again.

IP Setting

You can set IP Setting to Auto/Manual. When set to Auto, IP address is allocated automatically by system. When set to Manual, IP Address, Subnet Mask, Default Gateway and DNS should be set manually.

Auto*, Manual

BD-Live Connection

You can set access restriction to BD-Live contents.

Permitted Allows all BD-Live discs to connect the network.

Partial Permitted* Allows only discs with owner certification.

Prohibited Prohibits all BD-Live discs to connect the network.

DLNA

You can set the DLNA (p. 21) to Enable/Disable. When you do not use the DLNA function, set to Disable.

Enable*, Disable

Proxy Setting

You can set Proxy Setting. Set to Disable for normal use. Set to Enable to set the proxy setting.

Enable Enables proxy host and proxy port setting.

Disable* Sets proxy server to disable. Select this item when proxy server is not used.

Proxy Host Sets proxy host.

Proxy Port Sets proxy port.

Display Setting

The default settings are marked with "*".

TV

TV Screen

You can set the screen aspect ratio of the connected TV, and adjust the video output.


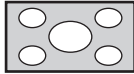
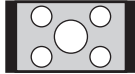
If you switch your TV (i.e. because you have bought a new one) and the screen aspect ratio of the connected TV changes, you will have to change the TV Screen setting.

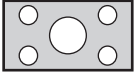


16:9 Full Select this when this Player is connected to a TV with a 16:9 screen. When a 4:3 aspect ratio video is played back, the video is displayed as shown below.

16:9 Normal* Select this when this Player is connected to a TV with a 16:9 screen. When a 4:3 aspect ratio video is played back, the video is displayed as shown below.

4:3 Pan Scan Select this when this Player is connected to a TV with a 4:3 screen. When a 16:9 aspect ratio video is played back, the video is displayed as shown below.

4:3 Letterbox Select this when this Player is connected to a TV with a 4:3 screen. When a 16:9 aspect ratio video is played back, the video is displayed as shown below.

Original image size	On 16:9 (wide screen) TV	
	16:9 Full	16:9 Normal
 <p>4:3</p>		

Original image size	On 4:3 TV	
	4:3 Pan Scan	4:3 Letterbox
 <p>16:9</p>		

Resolution

You can select the video output resolution from Auto, 480i/576i, 480p/576p, 720p, 1080i, and 1080p. When set to Auto, resolution is set to the maximum resolution according to the connected TV. For more details on output formats, refer to "About the video output formats" (p. 35).

Auto*, 480i/576i, 480p/576p, 720p, 1080i, 1080p

Note

- To output HD audio (such as Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Resolution to Auto or more than 720p.

TV System

You can select TV System from PAL, NTSC and Multi. Set the same TV System as your TV set. For more details on output formats, refer to “About the video output formats” (p. 35).

NTSC*, PAL, (Korea, Taiwan and Central and South America models)
Multi

NTSC, PAL*, (Russia and Asia models)
Multi

Color Space

You can select the Color Space (p. 40) output from HDMI. This function is available when this Player is connected with an HDMI cable.

RGB Outputs video signal at normal signal range.

YCbCr 4:4:4* Sets Color Space to YCbCr 4:4:4.

YCbCr 4:2:2 Sets Color Space to YCbCr 4:2:2.

Full RGB When RGB is set and white and black on the screen are too faint, select this item. This setting is effective when a connected component supports RGB 0-255 range.

Note

- This function is only available on TVs that support this function.

HDMI Deep Color

When your TV and/or AV receiver is compatible with Deep Color (p. 40), set this item according to your TV/AV receiver. This function is available when this Player is connected with an HDMI cable.

30 bits, 36 bits, Off*

HDMI 1080p 24Hz

This outputs the BD-Video encoded in 24Hz frame rate in HDMI 1080p 24Hz. Smoother video playback may be available with this function. This function is available when your TV/AV receiver support this function, and this Player is connected with an HDMI cable. For more details on output formats, refer to “About the video output formats” (p. 35).

Auto*, Off

Note

- This setting is disabled when output resolution is other than 1080p.

Lip Sync

You can set/adjust the Lip Sync (p. 41) function. To adjust Lip Sync manually, select Manual, then press ◀/▶ to adjust the figure.

Auto*, Manual, Off

Video Process

Video Mode

You can select Video Mode below.

Standard* The image is most natural and well-balanced. This mode suits for normal use.

Vivid The image is more vivid and sharp.

Cinema The image suits for watching movie in dark room.

Custom You can adjust the visual image manually. Press ▲/▼ to select the parameter, then press ◀/▶ to adjust the figure.

Brightness

Adjusts the overall brightness of the image.

Saturation

Adjusts the richness of the color in the projected image.

Hue

Adjusts the tint of the projected image.

Contrast

Adjusts the bright areas (white levels) in the image.

Sharpness

Adjusts the sharpness of objects in the video.

CTI

Smooths out the edges of color images. Color images are rendered more distinct.

The default settings are 0.

Color Adjust

You can adjust Brightness/Saturation/Hue for each color (Red/Green/Blue/Yellow/Cyan/Magenta). To use this function, set Video Mode to Custom. For details on the setting items, see “Video Mode” (p. 32).

The default settings are 0.

Auto Contrast

Adjusts contrast to optimize the played back image.

Off*, On

Noise Reduction

You can set the Noise Reduction to a level of 0 to 3. 0 is off, and 3 is the maximum level.

0*, 1, 2, 3

De-interlacing Mode

You can select how to detect the video signal. Set to Auto for normal use. When horizontal stripping noise appears on the screen, set this to Film/Video to remove the noise.

Auto*, Film, Video

■ Audio Setting

The default settings are marked with “*”.

Audio Output

Coaxial/Optical

You can select the output mode of COAXIAL jack and OPTICAL terminal. For more details on output formats, refer to “About the audio output formats” (p. 34).

Bitstream	Outputs digital signal without any processing. Secondary Audio is not output.
PCM	Outputs 2-channel PCM.
Reencode*	Outputs Bitstream with Secondary Audio. The audio signal is output in DTS signal.
Off	Mutes sound.

HDMI

You can select the output mode of HDMI terminal. For details on setting items, see “Coaxial/Optical” (p. 33). For more details on output formats, refer to “About the audio output formats” (p. 34).

Bitstream*, PCM, Reencode, Off

Note

- To output HD audio (such as Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Resolution to Auto or more than 720p (p. 31).

Downsampling

You can select digital audio signal down-sample frequency. This function is effective for the audio signal output from the COAXIAL jack/OPTICAL terminal.

48k*	The highest sampling rate of digital PCM output is 48 kHz.
96k	The highest sampling rate of digital PCM output is 96 kHz.
192k	The highest sampling rate of digital PCM output is 192 kHz.

DRC

You can set the DRC (Dynamic Range Compression) (p. 40) to on/off/Auto. When set to Auto, DRC is automatically turned on for a source with DRC information in Dolby TrueHD format. DRC makes the strong sound such as plosive sound lower, and conversations more audible. It is useful when you watch movies in the night.

Off*, On, Auto

SACD Output

SACD Priority

You can select a content played back from multi-channel or stereo (2-channel) contents when a Hybrid SA-CD (p. 4) including both is loaded.

Multi-ch*, 2-ch

HDMI Output

You can select audio signal output from HDMI terminal when SA-CD is played back.

DSD*	Outputs DSD raw signal. When this Player is connected to DSD compatible AV receiver, this item is recommended.
PCM	Outputs PCM signal decoded by this Player.

Speaker Setting

Configuration

You can set the output of 7.1 ch surround depending on the connected speaker or amplifier.

- 1 Press ▲/▼ to select a speaker you want to configure, then press **ENTER**.
- 2 Adjust the figures below. Note that some of items are not displayed depend on the selected speaker.

Size	When the woofer section of a speaker is 16 cm (6-1/2 in) or larger, select Large. When smaller than 16 cm (6-1/2 in), select Small.
	Large*, Small
Trim	-12 to 0 dB (in 0.5 dB step)
	The default setting is 0 dB.
Delay	0.5 to 10 m (in 0.5 m step)
	The default setting is 3 m.
Disable	When selected speaker is not in use, select Yes.
	Yes, No*

- 3 Press **RETURN** to go back to speaker selection.

2ch Downmix

You can select down mix method to analog 2-ch from Stereo or Lt/Rt.

Stereo*	Changes channel output to stereo, which only delivers sound from the two front speakers.
Lt/Rt	Select this item if this unit is connected to a Dolby Pro Logic decoder. Sound from rear speakers is mixed to the 2 ch stereo sound.

Post Process

You can multi-channelize the 2-channel audio signal. To multi-channelize, select NEO6, then select Cinema or Music mode.

Off*, NEO6

■ System Information

Software version and MAC address (p. 41) are displayed.

■ About the audio output formats

Source format		HDMI			COAXIAL/OPTICAL			MIXED 2CH/ 7.1 ch surround
		Bitstream	PCM	Reencode	Bitstream	PCM	Reencode	
PCM 2ch		PCM 2ch			PCM 2ch			2ch
PCM 5.1ch		PCM 5.1ch			PCM 2ch			2ch/5.1ch
PCM 7.1ch		PCM 7.1ch			PCM 2ch			2ch/7.1ch
Dolby Digital	with SA* or BCS**	Dolby Digital	PCM 5.1ch	Dolby Digital	Dolby Digital	PCM 2ch	Dolby Digital	2ch/5.1ch
Dolby Digital Plus	with SA* or BCS**	Dolby Digital Plus	PCM up to 7.1ch	Dolby Digital Plus	Dolby Digital	PCM 2ch	Dolby Digital	2ch/7.1ch
				Dolby Digital				
Dolby TrueHD	with SA* or BCS**	Dolby TrueHD	PCM up to 7.1ch	Dolby TrueHD	Dolby Digital	PCM 2ch	Dolby Digital	
				Dolby Digital				
DTS	with SA* or BCS**	DTS	PCM up to 5.1ch	DTS	DTS	PCM 2ch	DTS	2ch/5.1ch
DTS HD High Resolution	with SA* or BCS**	DTS HD High Resolution	PCM up to 7.1ch	DTS HD High Resolution	DTS	PCM 2ch	DTS	2ch/7.1ch
				DTS				
DTS-HD Master Audio	with SA* or BCS**	DTS-HD Master Audio	PCM up to 7.1ch	DTS-HD Master Audio	DTS	PCM 2ch	DTS	
				DTS				

* “SA” is a Secondary Audio.

** “BCS” is a button click sound, the sound effect for pop-up menus, etc.

SA-CD output formats

SACD Output settings		HDMI	COAXIAL/OPTICAL	MIXED 2CH/7.1ch surround
SACD Priority	HDMI Output			
Multi-ch	DSD	DSD up to 5.1ch	No output	2ch/5.1ch
	PCM	PCM up to 5.1ch	No output	2ch/5.1ch
2-ch	DSD	DSD 2ch	No output	2ch/2ch
	PCM	PCM 2ch	No output	2ch/2ch

Notes

- When Coaxial/Optical or HDMI is set to Bitstream, secondary audio is not output. (p. 33)
- To output HD audio (such as Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Resolution to Auto or more than 720p (p. 31).
- For SA-CD playback, Configuration in Speaker Setting (p. 33) is effective only when HDMI Output is set to PCM.

■ About the video output formats

When TV System is set to NTSC

	Resolution	Auto	480i/576i	480p/576p	720p	1080i	1080p	
	HDMI 1080p 24Hz						On	Off
HDMI	Playback BD	Max	480i	480p	720p 60 Hz	1080i 60 Hz	1080p 24 Hz	1080p 60 Hz
	others						1080p 60 Hz	
COMPONENT	Playback commercially-released DVD	480i	480i	480p	480p	480p	480p	
	Playback BD				720p 60 Hz	1080i 60 Hz	off	1080i 60 Hz
	others						1080i 60 Hz	
VIDEO	Playback BD	480i	480i	480i	480i	480i	off	480i
	others						480i	

When TV System is set to PAL

	Resolution	Auto	480i/576i	480p/576p	720p	1080i	1080p	
	HDMI 1080p 24Hz						On	Off
HDMI	Playback BD	Max	576i	576p	720p 50 Hz	1080i 50 Hz	1080p 24 Hz	1080p 50 Hz
	others						1080p 50 Hz	
COMPONENT	Playback commercially-released DVD	576i	576i	576p	576p	576p	576p	
	Playback BD						off	576p
	others						576p	
VIDEO	Playback BD	576i	576i	576i	576i	576i	off	576i
	others						576i	

When TV System is set to Multi

When TV System is set to Multi, video signal is output at the same frequency as the source. Refer to the tables above for details on the frequency setting of the TV and resolution of the output video signal.

While a menu screen such as SETUP menu is displayed, video signal is output at the same frequency as the source.

Notes

- "Max" in the table means that resolution is set to the maximum resolution supported by the connected TV.
- HDMI 1080p 24Hz setting is disabled when output resolution is other than 1080p.
- When HDMI 1080p 24Hz setting is on, video signal is output from HDMI during BD playback.
- When commercially-released DVD is played back with component output, maximum resolution is 480p/576p.
- When TV System is set to NTSC and video source is not 60 Hz, the video output signal is converted to 60 Hz.
- When TV System is set to PAL and video source is not 50 Hz, the video output signal is converted to 50 Hz.

SOFTWARE UPGRADE

Some of the newly released BD discs cannot be played back unless you upgrade this Player software to the latest version. We recommend upgrading the software of this Player with software upgrade so that this Player is operated based on the latest software.

To check for the availability of a software upgrade, visit

<http://download.yamaha.com/downloads/service/top/?site=europe.yamaha.com&language=en>

Hint

- Software upgrade is automatically started after loading the disc which contains upgrade file package.

Note

- Do not remove the disc/USB memory device, set this Player to standby mode or unplug the power cable/ LAN cable while the software upgrade is being performed.

■ Upgrading the software

1. Prepare for the software upgrade.

When you upgrade the software from Disc/USB Storage:

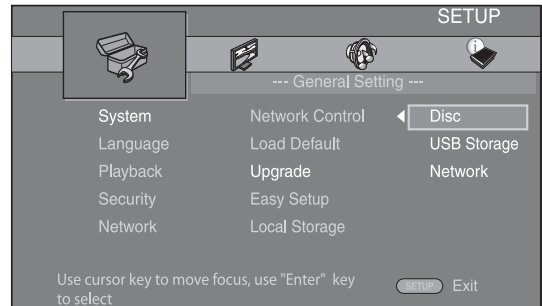
- ① Save the upgrade file package to the appropriate folder on the disc/USB memory device. For more details, refer to the procedure document attached with the upgrade file package.
- ② Load the disc or connect the USB memory device.
When the disc is loaded, software upgrade is started automatically. Skip step 2.

When you upgrade the software from Network:
Confirm that this Player is connected to the network.

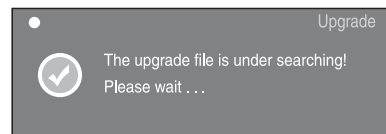
2. Select the upgrade method and start upgrade from SETUP menu.

- ① Press **SETUP** to display SETUP menu screen.
- ② Select General Setting → System → Upgrade.

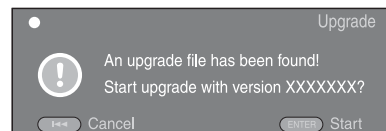
- ③ Select the item which contains the upgrade file package from Disc/USB Storage/Network.



3. The system will search for upgrade file package.



4. Press ENTER to start upgrade.



5. Upgrade is completed. The system will restart.

TROUBLESHOOTING

Refer to the table below when this Player does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off this Player, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

■ Power

Problem	Possible causes and solutions
No power.	<ul style="list-style-type: none"> – Connect the AC power cable properly. – Press (⏻) on the front panel to turn on the power.
The Player power is turned off.	<ul style="list-style-type: none"> – The power will be automatically turned off after 10 continuous minutes of inactivity (no playback).

■ Basic operation

Problem	Possible causes and solutions
The remote control does not work.	<ul style="list-style-type: none"> – Use the remote control within its operating range. (p. 5) – Replace the batteries. (p. 5) – Check the ID settings for the main unit and the remote control. (p. 9)
Buttons do not work.	<ul style="list-style-type: none"> – Press and hold ⏻ on the front panel for around 5 seconds to restart this Player. – To completely reset this Player, unplug the power cable from the AC outlet for 5 - 10 seconds, plug the power cable to the AC outlet again, and then turn on this Player.
Password is forgotten.	<ul style="list-style-type: none"> – Press and hold ■ ■ and ■■ on the front panel simultaneously when no disc is inserted and playback is stopped to set the Player to default setting (Security setting (p. 30) is also reset).

■ Disc playback

Problem	Possible causes and solutions
The Player cannot play a disc.	<ul style="list-style-type: none"> – Take out the disc and clean it. (p. 4) – Make sure that the disc is loaded properly (aligned in disc tray and label-side up). (p. 4) – Use a disc supported by the Player. (p. 3) – Remove the disc and then check whether the Player supports the disc or not. (p. 3) – Check the region code. (p. 3) – Check whether the disc is defective by trying another disc. – The CD-R/RW, DVD+R/RW/R DL, and DVD-R/RW/R DL must be finalized. (p. 3)
Video stops.	<ul style="list-style-type: none"> – The Player will stop if it senses shock or vibration.
The Player makes a snapping sound when starting playback or loading a disc.	<ul style="list-style-type: none"> – These sounds are not malfunctions of the Player but are normal operating conditions.

■ Picture

Problem	Possible causes and solutions
No picture.	<ul style="list-style-type: none"> – Make sure that the cables are connected correctly. (p. 10) – Make sure that the connected TV or the AV receiver is set to the correct input. (p. 10) – Connect this Player to the TV with VIDEO jack (p. 13) using the supplied video pin cable and set Resolution properly. (p. 31) – TV System is set to the incorrect setting. Press and hold DIMMER on the remote control to reset TV System setting to default setting.
Screen freezes and operation buttons do not work.	<ul style="list-style-type: none"> – Press ■, then restart playback. – Turn off the power and turn on the power again. – Press and hold ⏻ on the front panel for around 5 seconds to restart this Player.
Video is not output with the desired resolution.	<ul style="list-style-type: none"> – Set to the desired resolution. (p. 31)
Widescreen video appears vertically stretched, or black bands appear at the top and bottom of the screen. Or 4:3 video appears horizontally stretched.	<ul style="list-style-type: none"> – Change the aspect ratio of your TV. (p. 31)
Square noise (mosaic) appears on the screen.	<ul style="list-style-type: none"> – Blocks in images may be visible in scenes with rapid movement due to the characteristics of digital image compression technology.
The playback screen will be disturbed if DVD video is recorded to a VCR, or played back through a VCR.	<ul style="list-style-type: none"> – This Player complies with analog copy protection. Some discs contain a copy prohibiting signal. If you try to play back such discs through a VCR, or record to a VCR and play back the signal, the copy protection will prevent normal playback.
Audio is not output, or images are not played back properly.	<ul style="list-style-type: none"> – The audio may not be output or the images may not be played back properly for some discs in which copyright-protected contents are recorded.

■ Sound

Problem	Possible causes and solutions
No sound, or sound is distorted.	<ul style="list-style-type: none"> – Turn the volume up. – There is no sound during still mode, slow motion playback, fast forward and fast reverse. (p. 7) – Check that the audio cable is connected correctly. (p. 10) – Audio may not be output depending on the audio recording status, such as when audio other than an audio signal or non-standard audio is recorded for the audio content. (p. 3)
Left and right channels of audio are reversed, or sound comes out of only one side.	<ul style="list-style-type: none"> – Check the audio connection. (p. 10)
Audio is not output, or images are not played back properly.	<ul style="list-style-type: none"> – The audio may not be output or the images may not be played back properly for some discs in which copyright-protected contents are recorded.
Cannot hear the desired audio type and/or number of channels.	<ul style="list-style-type: none"> – Refer to Audio Output setting and “About the audio output formats”. (p. 33, 34)
Cannot hear the sound of PIP (secondary audio).	<ul style="list-style-type: none"> – Set Coaxial/Optical or HDMI to PCM/Reencode. (p. 33) – To hear secondary audio, press 2ND AUDIO. (p. 6) – Depending on the disc, you may need to set secondary audio to on on the top menu of the disc. (p. 7)

■ Network

Problem	Possible causes and solutions
Cannot connect to the Internet.	<ul style="list-style-type: none"> – Connect the Network cable properly. – Turn on the connected equipment, such as broadband router or modem. – Connect the broadband router and/or modem properly. – Set the proper value(s) in the network setting. Check “Network”. (p. 31)
Cannot download BD-Live contents.	<ul style="list-style-type: none"> – Connect the Network cable properly. (p. 16) – Connect USB memory device properly. Check that the USB memory device is connected to the USB port of this Player. (p. 16) – Check if the BD disc supports BD-Live. – Check the setting for “Internet Connection”. (p. 31) – Connect the USB memory device formatted in FAT16 or FAT32. – It is recommended to connect the USB memory device with at least 2 GB of free space. If there is not enough free space, format the USB memory device. (p. 29)
Cannot detect the DLNA server.	<ul style="list-style-type: none"> – Connect the network cable properly. – Turn on the connected equipment, such as broadband router or the server. – Confirm the Player and the server are connected to the same access point. – Set the proper value(s) in the network setting. Check “Network”. (p. 31) – Depending on the DLNA server, the Player may need to be permitted from the server.
Cannot a play the file on the home network server.	<ul style="list-style-type: none"> – Make sure the file is playable. (p. 3) – Check your DLNA server’s setting. – The playback and operating quality may be affected by your home network condition.

■ Messages on the screen

- The following messages appear on the TV screen in case the disc you tried to play back is not appropriate or the operation is not correct.

Error message	Possible causes and solutions
Not Support This File!	– The file is not supported with this Player. See “Types of discs/files that can be used with this Player” (p. 3).
Wrong region code!	– The disc is an incompatible region code. See “Region management information” (p. 3).
Network has FAILED.	– This Player cannot be connected to the network. Check connection (p. 16) and Network setting (p. 31).
Network is OK, proxy has FAILED.	– This Player cannot be connected to the proxy server. See “Proxy Setting” (p. 31).
The Setting is prohibited, please setup again.	– BD-Live connection is prohibited. See “BD-Live Connection” (p. 31).
No valid upgrade file is found!	– Check if the upgrade file is in the appropriate folder.
Upgrade has failed for some reason!	– Upgrade is failed. Check if the upgrade file is corrupted or unreadable.

GLOSSARY

AVCHD

AVCHD is a new format (standard) for high definition video cameras that can be used to record and play high-resolution HD images.

BD-Live

BD-Live is a BD standard that utilizes a network connection, enabling this Player to go online to download promotional videos and other data.

BDMV

BDMV (Blu-ray Disc Movie, BD-MV) refers to one of the application formats used for BD-ROM which is one of the Blu-ray Disc specifications. BDMV is a recording format equivalent to DVD-Video of the DVD specification.

BONUSVIEW

BONUSVIEW compatible discs let you simultaneously enjoy video sub-channel for two screens, audio sub-channel and sub-titles. A small screen appears within the main screen during playback (Picture in Picture).

Closed caption

Closed captions are kind of subtitle, and the difference between subtitles and captions is that subtitles are intended for hearing persons and captions are for the hearing impaired. Subtitles rarely show all of the audio. For example, captions show sound effects (e.g., “phone ringing” and “footsteps”), while subtitles do not. Before you select this setting, please ensure that the disc contains closed caption information.

Color Space

Color Space is a color range that can be represented. RGB is a color space based on the RGB color model (red, green and blue) and is typically used for PC monitors. YCbCr is a color space based on a luminance signal (Y) and two color difference signals (Cb and Cr).

Deep Color

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.

DivX®

DivX® is a popular media technology created by DivX, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX® files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX® media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

Dolby Digital

A sound system developed by Dolby Laboratories Inc. that gives movie theater ambience to audio output when the product is connected to a Dolby Digital processor or amplifier.

Dolby Digital Plus

A sound system developed as an extension to Dolby Digital. This audio coding technology supports 7.1 multi-channel surround sound.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology that supports up to 8 channels of multi-channel surround sound for the next generation optical discs. The reproduced sound is true to the original source bit-for-bit.

DRC (Dynamic Range Control)

DRC lets you adjust the range between the loudest and softest sounds (dynamic range) for playback at average volume. Use this when it is hard to hear dialog, or during times when playback may disturb neighbors.

DSD (Direct Stream Digital)

DSD technology stores audio signals on digital storage media, such as Super Audio CDs. Using DSD, signals are stored as single bit values at a high-frequency sampling rate of 2.8224 MHz, while noise shaping and oversampling are used to reduce distortion, a common occurrence with very high quantization of audio signals. Due to the high sampling rate, better audio quality can be achieved than that offered by the PCM format used for normal audio CDs.

DTS

This is a digital sound system developed by DTS, Inc. for use in cinemas.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is a new technology developed for the next generation high definition optical disc format.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio compression technology developed for the next generation high definition optical disc format.

DTS-HD Master Audio | Essential

DTS-HD Master Audio | Essential is a lossless audio compression technology developed for the next generation high definition optical disc format.

HDMI

HDMI (High-Definition Multimedia Interface) is an interface that supports both video and audio on a single digital connection. The HDMI connection carries standard to high definition video signals and multi-channel audio signals to AV components such as HDMI equipped TVs, in digital form without degradation.

Letterbox (LB 4:3)

A screen size with black bars on the top and bottom of the image to allow viewing of wide-screen (16:9) material on a connected 4:3 TV.

Linear PCM Sound

Linear PCM is a signal recording format used for Audio CDs and on some DVD and Blu-ray discs. The sound on Audio CDs is recorded at 44.1 kHz with 16 bits. (Sound is recorded between 48 kHz with 16 bits and 96 kHz with 24 bits on DVD discs and between 48 kHz with 16 bits and 192 kHz with 24 bits on BD discs.)

Lip Sync

Lip Sync, an abbreviation for lip synchronization, is a technical term that involves both a problem and a capability of maintaining audio and video signals synchronized during post-production and transmission. Whereas the audio and video latency requires complex end-user adjustments, HDMI version 1.3 incorporates an automatic audio and video syncing capability that allows devices to perform this synchronization automatically and accurately without user interaction.

Mac address

The Mac address is a unique value assigned to a network device for identification purposes.

Pan Scan (PS 4:3)

A screen size that cuts off the sides of the image to allow viewing of wide-screen (16:9) material on a connected 4:3 TV.

Subtitles

These are the lines of text appearing at the bottom of the screen which translate or transcribe the dialog. They are recorded on many DVD and BD discs.

Top menu

In a BD-Video/DVD-Video, this is the menu for selecting things like the chapter to be played back and the subtitle language. In some DVD-Videos, the top menu may be called the "Title Menu".

x.v.Color

x.v.Color reproduces a greater range of color than before, showing almost all of the colors that the human eye can detect.

SPECIFICATIONS

■ General

Power supply	
[Central and South America models]	AC 110–240 V, 50/60 Hz
[Europe and Russia models]	AC 230 V, 50 Hz
[Asia model]	AC 220–240 V, 50/60 Hz
[Taiwan model]	AC 110-120 V, 50/60 Hz
[Korea model]	AC 220 V, 60 Hz
Power consumption (Normal)	25 W
Power consumption (Standby)	0.5 W
Dimensions (W × H × D)	435 × 96 × 316 mm (17-1/8 × 3-3/4 × 12-1/2 in)
Weight	4.05 kg (8.93 lbs.)

■ Audio performance



Audio output level (1 kHz, 0 dB, BD/DVD/CD-DA)	2 ± 0.3 V
Signal to noise ratio (BD/DVD/CD-DA)	115 dB or more
Dynamic range	
BD/DVD	105 dB or more
CD-DA	100 dB or more
Harmonic distortion (1 kHz)	
BD/DVD	0.0028 % or less
CD-DA	0.003 % or less
Frequency response	
BD/DVD	2 Hz to 22 kHz (48 kHz Sampling) 2 Hz to 44 kHz (96 kHz Sampling)
CD-DA	2 Hz to 20 kHz

■ Input/output

HDMI output	Type A connector × 1 480i/576i/480p/576p/720p/1080i/1080p/1080p@24Hz, Deep Color, x.v. Color support
Component video output	Y: 1 Vp-p (75 ohms) Pb, Pr: 0.7 Vp-p (75 ohms)
Video output	1 Vp-p (75 ohms)
Digital output	Optical × 1, Coaxial × 1
Analog audio output	7.1 ch × 1, Mixed 2 ch × 1
USB	Type A connector × 2
Other output equipments	Remote IN/OUT × 1, RS-232C × 1 (for custom installer), Ethernet × 1

Specifications are subject to change without notice.


■ Copyright


- Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Refer to relevant laws in your country.
- This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.
- Manufactured under license from Dolby Laboratories. “Dolby” 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 and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.
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- “BD-LIVE” logo is a trademark of Blu-ray Disc Association.
- “BONUSVIEW” is a trademark of Blu-ray Disc Association.
-  is a trademark of DVD Format/Logo Licensing Corporation.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- “x.v.Color” and “x.v.Color” logo are trademarks.
- “AVCHD” and the “AVCHD” logo are trademarks of Panasonic Corporation and Sony Corporation.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and/or other countries.
- This product is licensed under the AVC patent portfolio license and VC-1 patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard and VC-1 Standard (“AVC/VC-1 Video”) and/or (ii) decode AVC/VC-1 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC/VC-1 Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.
- Windows Media Player is a registered trademark or trademark of Microsoft corporation in the United States and/or other countries.
- DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance.
- “DivX®, DivX Certified®, DivX Plus™ HD and associated logos are registered trademarks of DivX, Inc. and are used under license.”
- “DivX Certified® to play DivX® and DivX Plus™ HD (H.264/.MKV) video up to 1080p HD and premium content.”

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

PRECAUCIÓN: LEA LAS INDICACIONES SIGUIENTES ANTES DE UTILIZAR ESTE APARATO

- 1 Para asegurar el mejor rendimiento de este aparato, lea atentamente este manual. Y luego guárdelo en un lugar seguro para poder consultarlo en el futuro en caso de ser necesario.
- 2 Instale esta unidad en un lugar bien ventilado, fresco, seco y limpio, alejado de la luz directa del sol, fuentes de calor, vibración, polvo, humedad y/o frío. Para una adecuada ventilación, permita que el equipo tenga el siguiente espacio libre mínimo:
Superior: 10 cm
Posterior: 10 cm
Laterales: 10 cm
- 3 Coloque este aparato lejos de otros aparatos eléctricos, motores o transformadores, para evitar así los ruidos de zumbido.
- 4 No exponga este aparato a cambios bruscos de temperaturas, del frío al calor, ni lo coloque en lugares muy húmedos (una habitación con deshumidificador, por ejemplo), para impedir así que se forme condensación en su interior, lo que podría causar una descarga eléctrica, un incendio, daños en el aparato y/o lesiones a las personas.
- 5 Evite instalar este aparato en un lugar donde puedan caer encima objetos extraños y/o donde quede expuesto al goteo o a la salpicadura de líquidos. Encima de este aparato no ponga:
 - Otros componentes, porque pueden causar daños y/o decoloración en la superficie de este aparato.
 - Objetos con fuego (velas, por ejemplo), porque pueden causar un incendio, daños en el aparato y/o lesiones a las personas.
 - Recipientes con líquidos, porque pueden caer y derramar el líquido, causando descargas eléctricas al usuario y/o dañando el aparato.
- 6 No tape este aparato con un periódico, mantel, cortina, etc. para no impedir el escape del calor. Si aumenta la temperatura en el interior del aparato, esto puede causar un incendio, daños en el aparato y/o lesiones a las personas.
- 7 No enchufe este aparato a una toma de corriente hasta después de haber terminado todas las conexiones.
- 8 No ponga el aparato al revés. Podría recalentarse y posiblemente causar daños.
- 9 No utilice una fuerza excesiva con los conmutadores, los controles y/o los cables.
- 10 Cuando desconecte el cable de alimentación de la toma de corriente, sujete la clavija y tire de ella; no tire del propio cable.
- 11 No limpie este aparato con disolventes químicos porque podría estropear el acabado. Utilice un paño limpio y seco para limpiar el aparato.
- 12 Utilice solamente la tensión especificada en este aparato. Utilizar el aparato con una tensión superior a la especificada resulta peligroso y puede producir un incendio, daños en el aparato y/o lesiones a las personas. Yamaha no se hará responsable de ningún daño debido al uso de este aparato con una tensión diferente de la especificada.
- 13 Para impedir daños debidos a relámpagos, desconecte el cable de alimentación de la toma de corriente durante una tormenta eléctrica.
- 14 No intente modificar ni arreglar este aparato. Póngase en contacto con el personal de servicio Yamaha cualificado cuando necesite realizar alguna reparación. La caja no deberá abrirse nunca por ninguna razón.
- 15 Cuando no piense utilizar este aparato durante mucho tiempo (cuando se ausente de casa por vacaciones, por ejemplo) desconecte el cable de alimentación de la toma de corriente.
- 16 Asegúrese de leer la sección “RESOLUCIÓN DE PROBLEMAS” antes de dar por concluido que su aparato está averiado.
- 17 Antes de trasladar este aparato, pulse  para ponerlo en el modo de espera, y luego desconecte el cable de alimentación de CA de la toma de corriente.
- 18 La condensación se formará cuando cambie de repente la temperatura ambiental. Desconecte en este caso el cable de alimentación de la toma de corriente y no utilice el aparato.
- 19 El aparato se calentará cuando la utilice durante mucho tiempo. Desconecte en este caso la alimentación y luego no utilice el aparato para permitir que se enfríe.
- 20 Instale este aparato cerca de la toma de CA y donde se pueda alcanzar fácilmente la clavija de alimentación.
- 21 Las baterías no deberán exponerse a un calor excesivo como, por ejemplo, el que producen los rayos del sol, el fuego y similares.

Este aparato no se desconecta de la fuente de alimentación de CA si está conectada a una toma de corriente, aunque la propia aparato esté apagada con . A este estado se le llama modo de espera. En este estado, este aparato ha sido diseñada para que consuma una cantidad de corriente muy pequeña.

ADVERTENCIA
PARA REDUCIR EL RIESGO DE INCENDIO O DESCARGA ELÉCTRICA, NO EXPONGA ESTE APARATO A LA LLUVIA NI A LA HUMEDAD.

El componente láser de este producto es capaz de emitir radiación que sobrepasa el límite establecido para la clase 1.

Especificaciones LÁSER:
Producto LÁSER de Clase 1
Longitud de onda: 790 nm (CD)/655 nm (DVD)/405 nm (BD)
Salida de láser: máxima de 1 mW

SEGURIDAD CONTRA LA RADIACIÓN LÁSER
Este aparato utiliza rayos láser. Debido a la posibilidad de que se produzcan daños en los ojos, la extracción de la cubierta del aparato o las reparaciones solamente deberán ser realizadas por un técnico cualificado.

PELIGRO
Este aparato emite radiación láser visible cuando se abre. Evite la exposición directa a los rayos láser. Cuando se conecte este aparato a una toma de corriente no acerque sus ojos a la abertura de la bandeja del disco ni a otras aberturas para mirar al interior.

PRECAUCIÓN
El uso de los controles, los ajustes o los procedimientos que no se especifican en este manual pueden causar una exposición peligrosa a la radiación.

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(al final de este manual)

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■ Acerca de este manual

- Este manual describe cómo utilizar este reproductor con un mando a distancia, excepto cuando no esté disponible. También se puede acceder a algunas de estas operaciones mediante los botones del panel delantero.
- Las notas contienen información importante sobre seguridad e instrucciones de funcionamiento. Las indicaciones señalan consejos de funcionamiento.
- Este manual se ha impreso antes de la fabricación. El diseño y las especificaciones están sujetos a cambios en parte como resultado de mejoras, etc. En caso de diferencias entre el manual y el producto, este último tiene prioridad.

Iconos utilizados en este manual

Los iconos se utilizan para indicar botones/funciones disponibles para un formato particular.

- BD** : Vídeo BD
- DVD** : Vídeo DVD, DVD-VR, DVD+VR, DVD-Audio
- CD** : Audio CD, Super Audio CD
- VIDEO** : AVCHD, WMV, DivX
- MUSIC** : MP3, WMA
- PHOTO** : JPEG

Español

QUÉ PUEDE HACER CON ESTE REPRODUCTOR

Configuración sencilla de idioma, resolución, relación de aspecto de la pantalla → pág. 18

Puede ajustar la configuración de idioma y TV.

Reproducción de discos BD/DVD/CD/SA-CD/DVD-Audio lanzados comercialmente* → pág. 22

Además de discos BD, este reproductor también admite la reproducción de otros discos diversos.

Reproducción de BONUSVIEW, BD-Live, etc.* → pág. 25

Puede disfrutar de películas adicionales en los discos BD más recientes.

Reproducción de archivos de Vídeo, Música, Foto de un disco* → pág. 19

Este reproductor puede reproducir los discos que usted grabe.

Reproducción de archivos de Vídeo, Música, Foto de un disco/ dispositivos de memoria USB* → pág. 19

Con este reproductor se pueden reproducir archivos grabados en discos/dispositivos de memoria USB.

Reproducción de archivos de Vídeo, Música, Foto de un servidor doméstico de red **** → pág. 21

El contenido del PC se puede reproducir en el televisor o el receptor de A/V conectando este reproductor a un servidor de red.

Funcionamiento con el mando a distancia del televisor, receptor de A/V, etc. → pág. 29

Puede conectar dispositivos con un cable HDMI y controlarlos con un único mando a distancia utilizando la función Control HDMI.

* Para conocer los detalles sobre los discos y formatos que se pueden reproducir, consulte la página 3.

** Para utilizar esta función es necesaria la configuración de red.

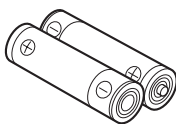
PIEZAS INCLUIDAS

Asegúrese de que con el producto se han suministrado los siguientes accesorios.

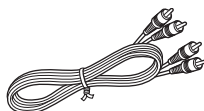
Mando a distancia



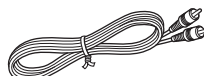
**Pilas (x2)
(AAA, R03, UM-4)**



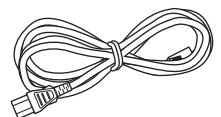
Cable de clavijas de audio



Cable de clavijas de vídeo









Cable de alimentación



Tipos de discos/archivos que se pueden utilizar con este reproductor

- En este reproductor se pueden reproducir discos de 12 cm y 8 cm. No utilice un adaptador de 8 cm a 12 cm.
- Utilice discos que sean compatibles con los estándares que se indican con la presencia de logotipos oficiales marcados en la etiqueta del disco. La reproducción de discos que no cumplan con estos estándares no está garantizada. Además, la calidad de imagen o sonido no está garantizada incluso si tales discos se pueden reproducir.

Tipo de disco	Formato de grabación	Formato de datos
BD-ROM/BD-R/ BD-RE	Vídeo BD	--
DVD-ROM	Vídeo DVD/DVD-Audio	--
DVD-R/DVD-R DL/ DVD-RW	Vídeo DVD/DVD-VR/AVCHD/disco de datos	DivX/WMV/MP3/ WAV/WMA/JPEG
DVD+R/DVD+R DL/DVD+RW	Vídeo DVD/ DVD+VR/AVCHD/ disco de datos	DivX/WMV/MP3/ WAV/WMA/JPEG
CD-ROM	CDDA/HDCD	--
CD-R/CD-RW	CDDA/disco de datos	DivX/WMV/MP3/ WAV/WMA/JPEG
SA-CD	SA-CD	--
USB	--	DivX/WMV/MP3/ WAV/WMA/JPEG
Red	--	WMV/MP3/WMA/ WAV/JPEG

Información de gestión de la región		
Destino	Vídeo BD	Vídeo DVD
América Central y del Sur	Código de región "A" o "ALL" 	Número de región "4" o "ALL" 
Europa	Código de región "B" o "ALL" 	Número de región "2" o "ALL" 
Rusia	Código de región "C" o "ALL" 	Número de región "5" o "ALL" 







- Los discos y los reproductores de vídeo BD/DVD tienen códigos de región que dictan las regiones en las que se puede reproducir un disco.
- Las operaciones y funciones de vídeo BD/DVD pueden ser diferentes de las explicaciones que aparecen en este manual y algunas operaciones pueden estar prohibidas debido a las configuraciones del fabricante del disco.
- Si se visualiza una pantalla de menú o instrucciones de funcionamiento durante la reproducción de un disco, siga el procedimiento de funcionamiento visualizado.

Notas

- Según el disco, puede que no sea posible la reproducción de algunos de los discos de las tablas de la columna izquierda.
- Finalice todos los medios de reproducción que se reproduzcan en este reproductor.
- "Finalizar" hace referencia a un procesamiento del grabador sobre un disco grabado para que se pueda reproducir en otros reproductores/grabadores, así como en este reproductor. Sólo se podrán reproducir en el reproductor los discos que se hayan finalizado. (Este reproductor no dispone de función para finalizar discos.)
- No se garantiza la reproducción de todos los archivos del disco, dispositivo de memoria USB y red.
- Un archivo con propiedad intelectual protegida no se puede reproducir a través de un dispositivo de memoria USB o red.

Requisitos de archivos de audio MP3/WMA/WAV

- Frecuencia de muestreo: entre 32 – 48 kHz (MP3/WMA), LPCM 44,1 kHz/16 bits/estéreo (WAV)
- Bitrate: entre 8 – 320 kbps (MP3), 32 – 192 kbps (WMA)

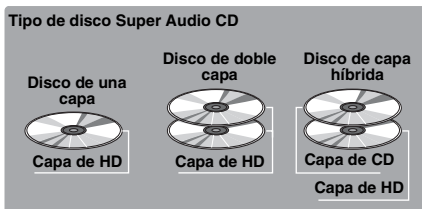
Información de gestión de la región		
Destino	Vídeo BD	Vídeo DVD
Asia	Código de región "A" o "ALL" 	Número de región "3" o "ALL" 
Taiwán	Código de región "A" o "ALL" 	Número de región "3" o "ALL" 
Corea	Código de región "A" o "ALL" 	Número de región "3" o "ALL" 

Requisitos de archivo WMV

- WMV9, la resolución máxima es 1.920 × 1.080.

Acerca de Super Audio CD (SA-CD)

- Formato de audio basado en los estándares actuales de CD pero con mayor cantidad de información, lo que se traduce en un sonido de una calidad superior. Existen tres tipos de discos: de una capa, de doble capa e híbridos. El disco híbrido puede reproducirse en los reproductores de CD existentes y en los reproductores de Super Audio CD, ya que contiene información de CD de audio estándar y de Super Audio CD.



Consejo

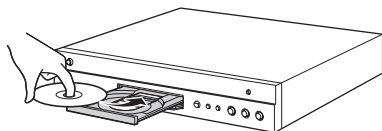
- Este reproductor admite la transmisión de datos DSD a través de HDMI con un receptor A/V compatible.

Nota

- Esta unidad no muestra los datos de texto incluidos en los discos en el visor del panel delantero.

Para cargar un disco

- Inserte el disco con la etiqueta hacia arriba.
- En el caso de un disco grabado por ambos lados, ponga boca abajo el lado que va a reproducir.



Notas

- La reproducción podría iniciarse automáticamente, dependiendo del disco y la configuración del reproductor.
- El menú podrá visualizarse primero, según el disco.
- El tiempo para cargar el disco puede variar dependiendo del disco.

Precauciones con los discos

Tenga cuidado con los arañazos y el polvo

- Los discos BD, DVD y CD son sensibles al polvo, a las huellas dactilares y especialmente, a los arañazos. Es posible que no se pueda reproducir un disco con arañazos. Maneje los discos con cuidado y almacénelos en un lugar seguro.

Almacenamiento apropiado de los discos

Ponga el disco en el centro de la caja y almacene la caja y el disco en posición vertical.	
Evite guardar los discos en lugares con luz solar directa, cerca de dispositivos de calefacción o en lugares con alta humedad.	
No deje caer los discos ni los someta a vibraciones o impactos fuertes.	
Evite almacenar los discos en lugares donde haya mucha cantidad de polvo o humedad.	

Precauciones para el manejo



- Si la superficie tiene manchas, límpiela suavemente con un paño suave humedecido (con agua solamente). Cuando limpie los discos, mueva siempre el paño desde el orificio central hacia el borde exterior.



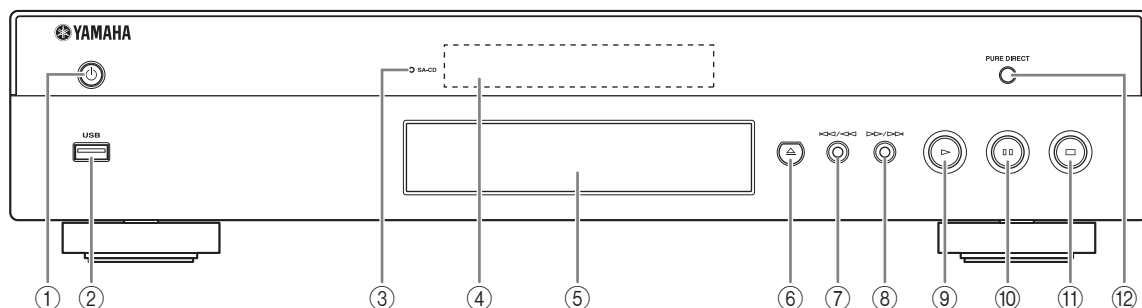
- No utilice pulverizadores de limpieza de discos de vinilo, bencina, diluyente, líquidos para prevención de electricidad estática u otros disolventes.

- No toque la superficie.
- No adhiera papel ni etiquetas adhesivas en el disco.
- Si la superficie de reproducción de un disco está manchada o raspada, el reproductor podrá decidir que el disco es incompatible y expulsar la bandeja portadiscos, o podría no reproducir el disco correctamente. Limpie cualquier mancha de la superficie de reproducción con un paño suave.

Limpieza de la lente lectora

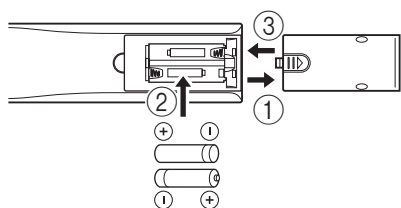
- No utilice nunca discos de limpieza de venta en el comercio. La utilización de esos discos podría dañar la lente.
- Solicite la limpieza de la lente en el centro de atención al cliente aprobado por Yamaha más cercano.

■ Panel delantero



- ① **⏻ (Encendido/En espera)**
- ② **Puerto USB (pág. 16)**
- ③ **Indicador SA-CD:** Se enciende cuando se carga un SA-CD y se selecciona la capa SA-CD (pág. 4).
- ④ **Visor del panel delantero**
- ⑤ **Bandeja portadiscos (pág. 4)**
- ⑥ **▲ (Expulsar):** Abre/cierra la bandeja portadiscos.
- ⑦ **◀◀/◀◀ (Búsqueda hacia atrás/Salto hacia atrás):** Pulse para saltar hacia atrás y mantenga pulsado para buscar hacia atrás.
- ⑧ **▶▶/▶▶ (Búsqueda hacia adelante/Salto hacia adelante):** Pulse para saltar hacia adelante y mantenga pulsado para buscar hacia adelante.
- ⑨ **▶ (Reproducción)**
- ⑩ **■ ■ (Pausa)**
- ⑪ **■ (Detener)**
- ⑫ **PURE DIRECT:** Pulse esta opción para cambiar el modo Pure Direct (pág. 7) a modo 1/modo 2/desactivado. Este botón se enciende cuando el modo Pure Direct se sitúa en modo 1/modo 2.

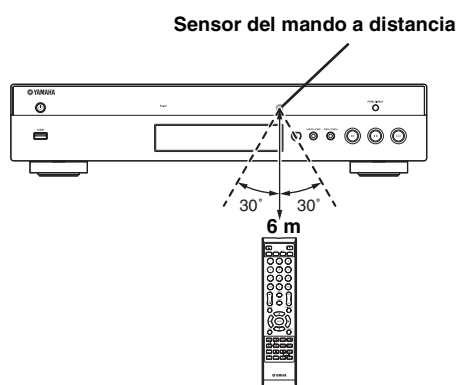
Instalación de las pilas en el mando a distancia



Notas


- No someta al mando a distancia a golpes, agua ni humedad excesiva.
- El mando a distancia podría no funcionar si el sensor del reproductor está expuesto a la luz solar directa o cualquier otra luz fuerte.
- El uso incorrecto de las pilas puede provocar que revienten o tengan fugas. Lea las advertencias para las pilas y utilícelas correctamente.
- No mezcle pilas viejas y nuevas, ni mezcle diferentes marcas.
- Extraiga las pilas si no va a utilizar el mando a distancia durante un periodo de tiempo prolongado.
- Deshágase de las pilas según la normativa de su región.

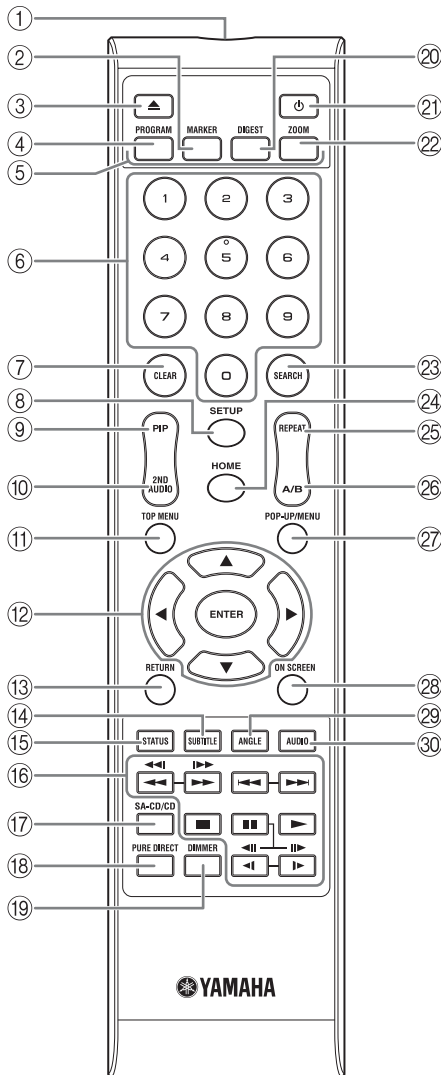
Alcance aproximado de funcionamiento del mando a distancia





Mando a distancia

Nota


- En la esquina superior izquierda de la pantalla aparecerá  cuando la tecla pulsada no esté disponible.



- 1 **Transmisor de señales infrarrojas:** Emite la señal infrarroja. Oriente esta ventana al sensor del mando a distancia (pág. 5).
- 2 **MARKER DVD VIDEO:** Establece un Marcador (pág. 24) en un punto especificado de una película. Tras definir un Marcador, para seleccionar el punto de ajuste al que desea saltar, pulse **DIGEST**. Puede definir hasta 12 marcadores.
- 3 : Abre/cierra la bandeja portadiscos.
- 4 **PROGRAM DVD CD:** Establece el orden de reproducción (pág. 24). Puede configurar hasta 15 pistas (para discos de audio) o títulos/capítulos (Vídeo DVD).
- 5 **Teclas de colores BD:** Utilice estas teclas según las instrucciones en pantalla.
- 6 **Teclas numéricas:** Permiten introducir números, o durante la reproducción, saltar a la pista/capítulo correspondiente al número introducido. Es posible que estos botones no estén disponibles en función del tipo de disco y la situación de reproducción.
- 7 **CLEAR:** Borra el número introducido o elemento establecido.
- 8 **SETUP:** Muestra la pantalla de menú SETUP (pág. 26).
- 9 **PIP BD:** Permite encender/apagar la función Imagen en imagen (pág. 25). Marca PIP () se muestra en pantalla cuando esta función está disponible. También puede seleccionar este elemento desde el menú en pantalla (pág. 22).

Nota

- Marca PIP se muestra sólo cuando la Marca PIP está encendida (pág. 30).

- 10 **2ND AUDIO BD:** Selecciona el audio secundario de la función Imagen en imagen (pág. 25) o los comentarios de audio. Cuando esta función está disponible se muestra en pantalla Marca Audio Secundario () (pág. 33). También puede seleccionar este elemento desde el menú en pantalla (pág. 22).

Nota

- Marca Audio Secundario se muestra sólo cuando la Marca Audio Secundario está encendida (pág. 30).

- ⑪ **TOP MENU** **BD** **DVD**: Muestra la pantalla de menú principal (pág. 41) si el disco contiene un menú. Seleccione el elemento deseado mediante ▲/▼/◀/▶ y **ENTER**.

Nota

– Las operaciones concretas pueden diferir dependiendo del disco. Siga las instrucciones de cada pantalla de menú.

- ⑫ **Teclas de cursor** (▲/▼/◀/▶): Permiten mover la selección en la pantalla de menú.

ENTER: Elige el menú/elemento seleccionado.

- ⑬ **RETURN**: Permite volver al menú o pantalla anterior, etc.

- ⑭ **SUBTITLE** **BD** **DVD** **VIDEO**: Permite cambiar el idioma de los subtítulos (pág. 41) si está disponible. También puede seleccionar este elemento desde el menú en pantalla (pág. 22).

- ⑮ **STATUS**: Muestra la información de reproducción (pág. 23).

- ⑯ **Teclas de control**

BD **DVD** **CD** **VIDEO** **MUSIC** **PHOTO**

◀◀/▶▶: Permite buscar hacia atrás/hacia adelante. La velocidad de búsqueda cambiará cada vez que pulse la tecla (buscar hacia atrás/adelante: 5 pasos cada una). Pulse ▶ para reanudar la reproducción normal.

◀◀/▶▶ **BD** **DVD** **CD** **VIDEO** **MUSIC**: Manténgalo pulsado para realizar una búsqueda o una repetición instantánea. La búsqueda instantánea salta 30 segundos en el contenido. La repetición instantánea reproduce el contenido desde 10 segundos antes.

◀◀/▶▶: Permite saltar hacia atrás/hacia adelante.

■: Detiene la reproducción. Para detener la reproducción completamente, pulse este botón dos veces.

■: Pausa la reproducción.

▶: Reproduce el contenido.

◀ (◀||) / ▶ (||▶)

BD **DVD**: Realiza una ejecución lenta hacia atrás/hacia adelante. La velocidad de reproducción lenta cambiará cada vez que pulse la tecla (reproducción lenta hacia atrás/adelante: 4 pasos cada una). Estos botones también permiten la reproducción de avance/retroceso de fotograma durante la pausa. Pulse ▶ para reanudar la reproducción normal.

Muchos discos de DVD-Audio permiten reproducir pases de diapositivas y girar páginas. Pulse ◀(▶) para pasar a una página anterior o siguiente. Esta función sirve solamente para los DVD-Audio.

Notas

- Algunos discos BD/DVD no son compatibles con la reproducción de avance/retroceso de fotograma.
- En función del disco, el reproductor reanuda la reproducción desde el punto en el que se paró anteriormente el reproductor. Para reproducir desde el principio, pulse ■ y después ▶.

- ⑰ **SA-CD/CD**: Cambia la capa de reproducción de un SA-CD híbrido entre SA-CD y CD (pág. 4).

Consejo

- El indicador SA-CD/CD (pág. 5), situado en el panel delantero, se enciende cuando se carga un SA-CD y se selecciona la capa SA-CD (pág. 33).

Notas

- Las señales de audio solamente se emiten desde las tomas AUDIO OUT (pág. 11) si la capa SA-CD está seleccionada.
- No es posible reproducir en este reproductor señales de audio grabadas en formato DSD multicanal.

- ⑱ **PURE DIRECT**: Permite cambiar el modo Pure Direct. El modo Pure Direct mostrado a continuación cambiará cada vez que se pulse el botón. El modo Pure Direct mejora la calidad del sonido. En el panel delantero, se enciende PURE DIRECT cuando el modo Pure Direct está en modo 1/modo 2.

Modo 1: el panel delantero se apaga y no se emiten señales de vídeo. Este modo es ideal para escuchar audio.

Modo 2: el visor del panel delantero se apaga y no se emiten las señales de vídeo que no sean del terminal HDMI. Este modo es adecuado para ver películas con sonido de alta calidad.

desactivado: Reproducción normal.

- ⑲ **DIMMER**: Cambia el brillo del visor del panel delantero en 5 pasos.

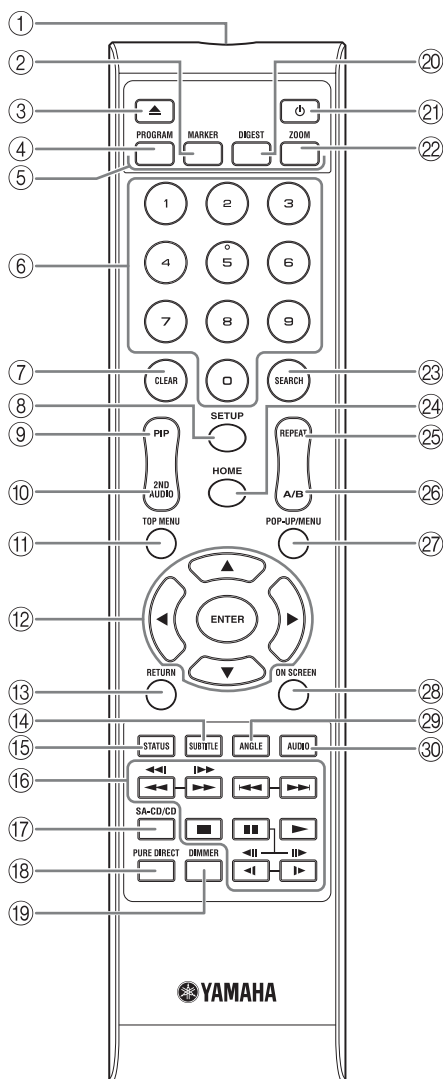
- ⑳ **DIGEST** **PHOTO**: Muestra 12 fotografías en miniatura. Cuando se muestran las miniaturas, puede continuar a la página siguiente o anterior con ◀◀/▶▶.

DVD **VIDEO**: Muestra la barra de selección Marcador (pág. 24).

- ㉑ **⏻**: Enciende el reproductor o lo pone en modo de espera.

- ㉒ **ZOOM** **DVD** **VIDEO** **PHOTO**: Ampliar/reducir zoom. El tamaño de la pantalla cambiará cada vez que pulse la tecla (ampliar/reducir zoom: 3 pasos cada uno).

Continúa en la página siguiente. ➔



- 23 **SEARCH** **BD DVD CD VIDEO MUSIC** :
 Permite saltar a un punto especificado durante la reproducción. Para conocer los detalles sobre esta función, consulte “Uso de la búsqueda” (pág. 24). También puede seleccionar este elemento desde el menú de estado (pág. 23).
 - 24 **HOME**: Muestra la pantalla de menú HOME (pág. 19).
 - 25 **REPEAT** **BD DVD CD VIDEO MUSIC** :
 Permite cambiar el modo de repetición. El modo de repetición mostrado a continuación cambiará cada vez que se pulse el botón.

 - : Permite repetir el título que se está reproduciendo.
 - : Permite repetir el capítulo que se está reproduciendo.
 - : Repite todas las pistas o los archivos del disco o carpeta.
 - : Repite la pista o el archivo que se está reproduciendo.
 - 26 **A/B** **BD DVD CD VIDEO MUSIC** : Permite reproducir una parte específica que desee repetir.

 - 1 Pulse **A/B** en la escena donde desee establecer el punto inicial. En la pantalla se muestra “A-”.
 - 2 Vuelva a pulsar **A/B** en la escena donde desee establecer el punto final. En la pantalla se muestra “A-B”. Se inicia la reproducción de repetición.
 - 3 Para cancelar la reproducción de repetición, pulse **A/B**. “A-B” desaparece y finaliza la reproducción de repetición.
- Nota**
- Es posible que esta función no se pueda realizar dependiendo de las especificaciones del disco.
- 27 **POP-UP/MENU** **BD DVD** : Muestra el menú emergente. Los contenidos del menú que se visualiza varían en función del disco. Consulte los detalles sobre cómo ver y operar el menú emergente en el manual del disco.
 La pantalla del menú principal se puede mostrar pulsando **POP-UP/MENU**, dependiendo del DVD.
 - 28 **ON SCREEN**: Muestra el menú en pantalla (pág. 22).
 - 29 **ANGLE** **BD DVD** : Permite cambiar el ángulo de la cámara si el vídeo se ha grabado con varios ángulos. Cuando esta función está disponible se muestra en pantalla Marca de Angulo (). También puede seleccionar este elemento desde el menú en pantalla (pág. 22).
- Nota**
- Marca de Angulo se muestra sólo cuando la Marca de Angulo está encendida (pág. 30).
- 30 **AUDIO** **BD DVD** : Permite cambiar el idioma o formato de audio. También puede seleccionar este elemento desde el menú en pantalla (pág. 22).





Función ID

Puede modificar el ID del mando a distancia para evitar una utilización no deseada de otro reproductor Yamaha, como un reproductor de DVD. Si modifica el ID del mando a distancia, seleccione el mismo ID para la unidad principal. La configuración predeterminada es ID1.

1 Configuración del mando a distancia

Para modificar el ID de ID1 a ID2, mantenga pulsado el botón de color rojo y el botón **2** de los botones numéricos simultáneamente durante 3 segundos. Para modificar el ID de ID2 a ID1, mantenga pulsado el botón de color rojo y el botón **1** de los botones numéricos simultáneamente durante 3 segundos.

2 Configuración de la unidad principal

Mantenga pulsado   y   en el panel delantero simultáneamente durante 2 segundos para mostrar el ID actual si:

- No hay ningún disco en el reproductor.
- La bandeja portadiscos está cerrada.
- Se detiene la reproducción.
- “NO DISC” aparece en el visor del panel delantero.

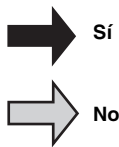
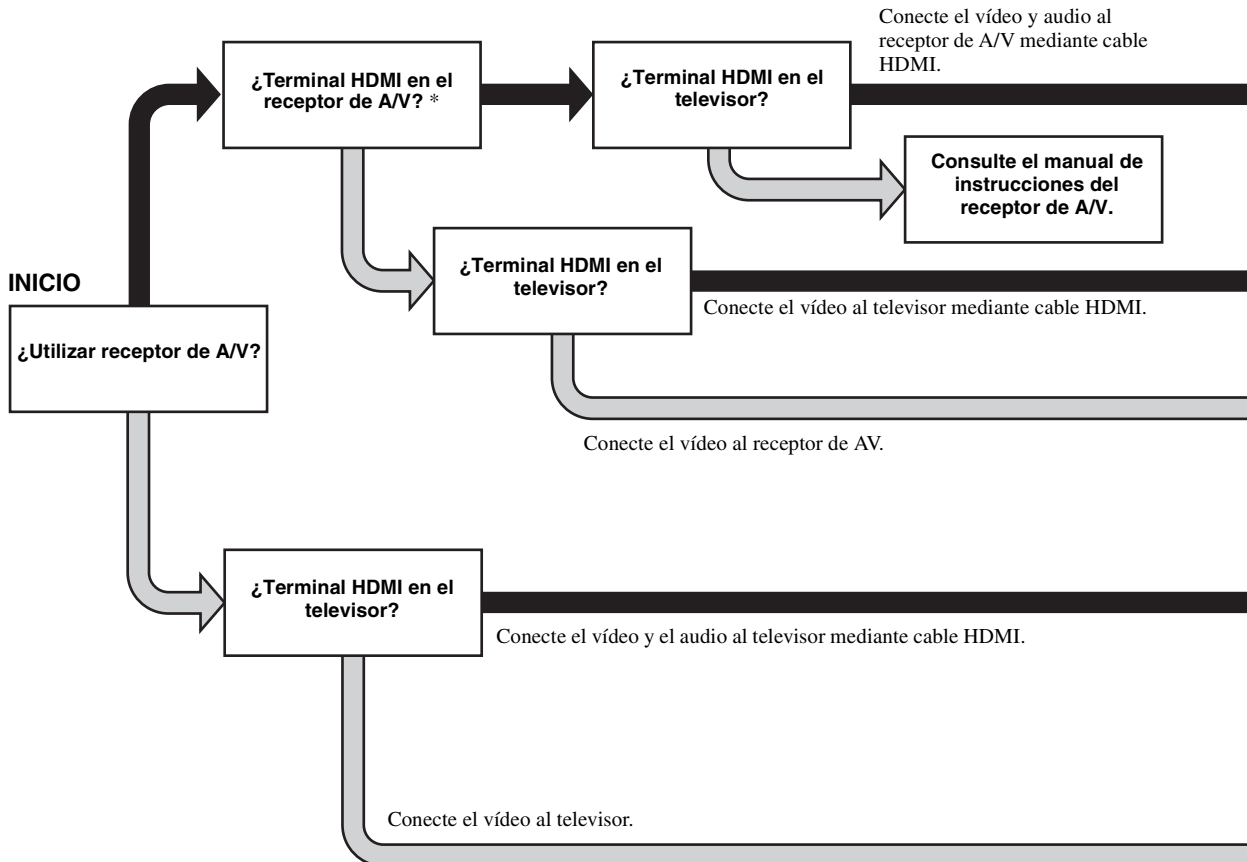
Mantenga pulsadas las teclas durante 2 segundos más para cambiar el ID de ID1 a ID2.

Nota

- Si el mando a distancia está sin pilas durante unos minutos o si se dejan pilas agotadas en el mando a distancia, el ID del mando a distancia se ajusta automáticamente en ID1. Si desea utilizar el mando a distancia con el ajuste ID2, coloque pilas nuevas y vuelva a configurar el ID del mando a distancia.

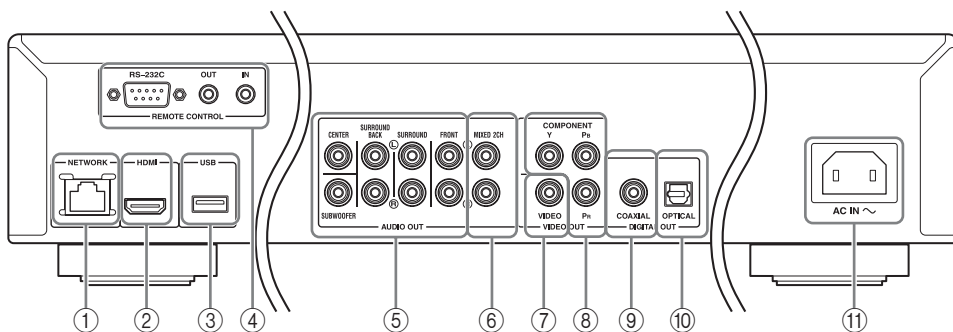
INTRODUCCIÓN A LAS CONEXIONES

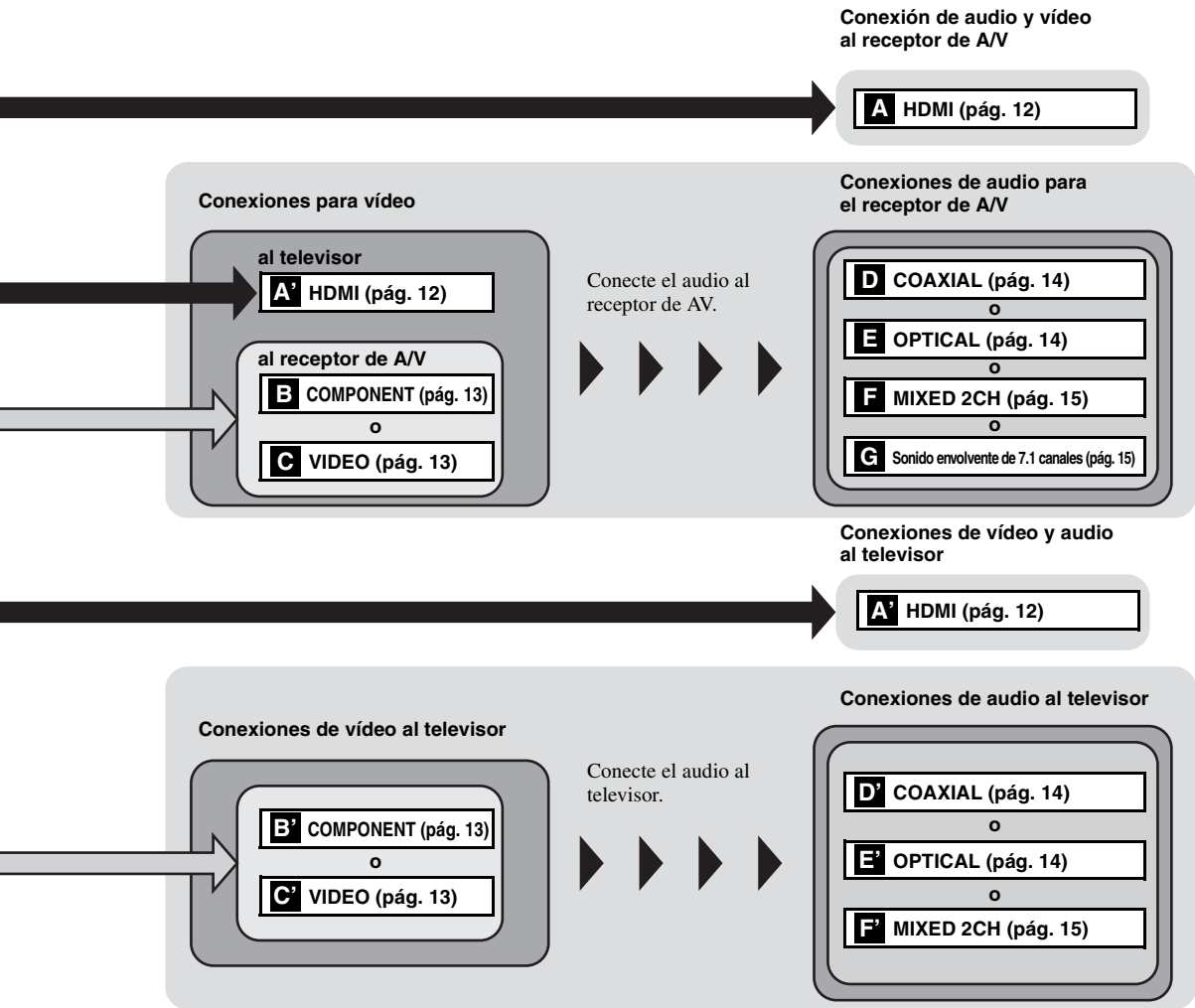
Encuentre el método de conexión que corresponde a su equipo de vídeo/audio. Le recomendamos que utilice el terminal HDMI que ofrece audio y vídeo digital de alta calidad en una única conexión. Si utiliza los demás terminales/conectores, conecte el vídeo en primer lugar. A continuación, conecte el audio.



* Cuando conecte a un receptor de A/V que no pueda dar salida a la entrada de sonido a través de su terminal HDMI, consulte el manual de instrucciones del receptor de A/V.

■ Panel trasero





- ① NETWORK (pág. 16)
- ② HDMI (pág. 12)
- ③ Puerto USB (pág. 16)
- ④ REMOTE CONTROL (IN/OUT/RS-232C) (pág. 17)
- ⑤ Sonido envolvente de 7.1 canales (AUDIO OUT) (pág. 15)

- ⑥ MIXED 2CH (AUDIO OUT) (pág. 15)
- ⑦ VIDEO (pág. 13)
- ⑧ COMPONENT (pág. 13)
- ⑨ COAXIAL (pág. 14)
- ⑩ OPTICAL (pág. 14)
- ⑪ AC IN (pág. 17)

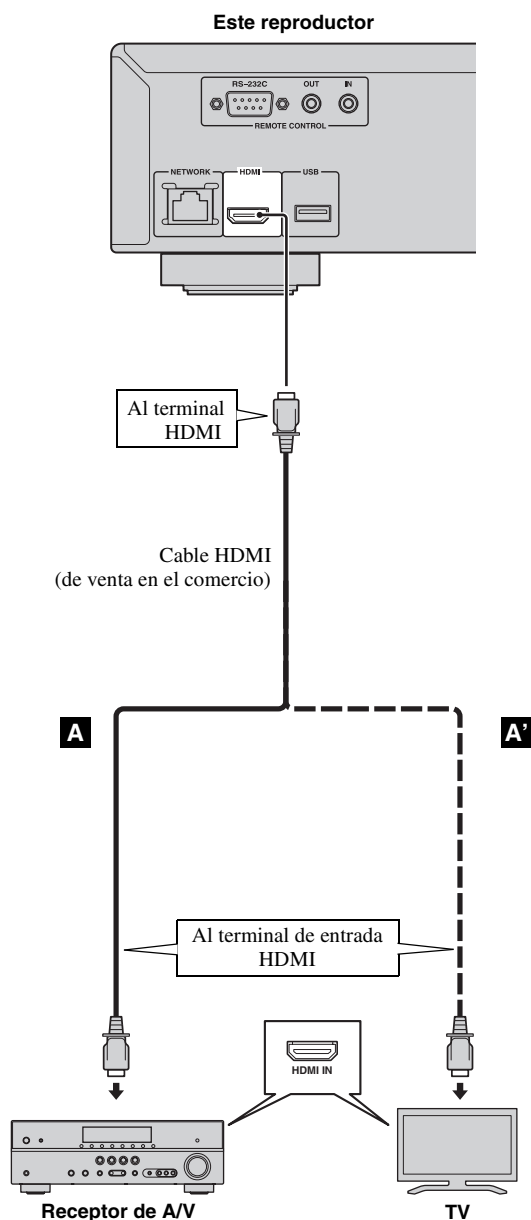
HDMI CONEXIONES

■ Conexión con el terminal HDMI

- Puede disfrutar de imagen y sonido digital de alta calidad a través del terminal HDMI.
- Conecte con firmeza un cable HDMI (de venta en el comercio) a los terminales HDMI.
- Consulte la página 34 para obtener información sobre los formatos de salida de audio/vídeo.
- Utilice cables HIGH SPEED HDMI que dispongan del logotipo HDMI (tal como se muestra en la cubierta trasera).

¡Precaución!

No conecte el cable de alimentación del reproductor hasta haber finalizado todas las conexiones.



Consejos

- Cuando utilice la función Control HDMI, consulte “Control HDMI” (pág. 29).
- Para más información sobre el modo de salida del terminal HDMI, consulte “HDMI” (pág. 33).

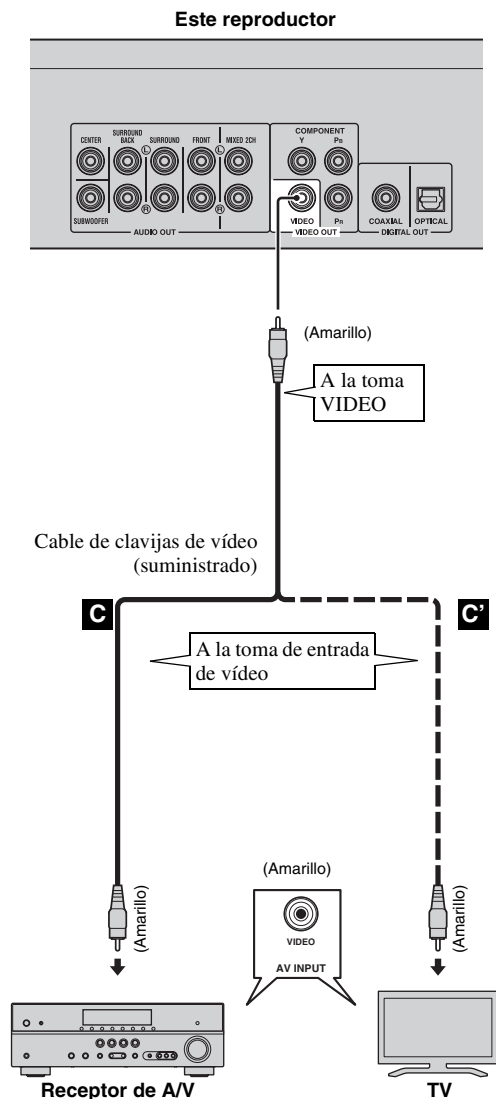
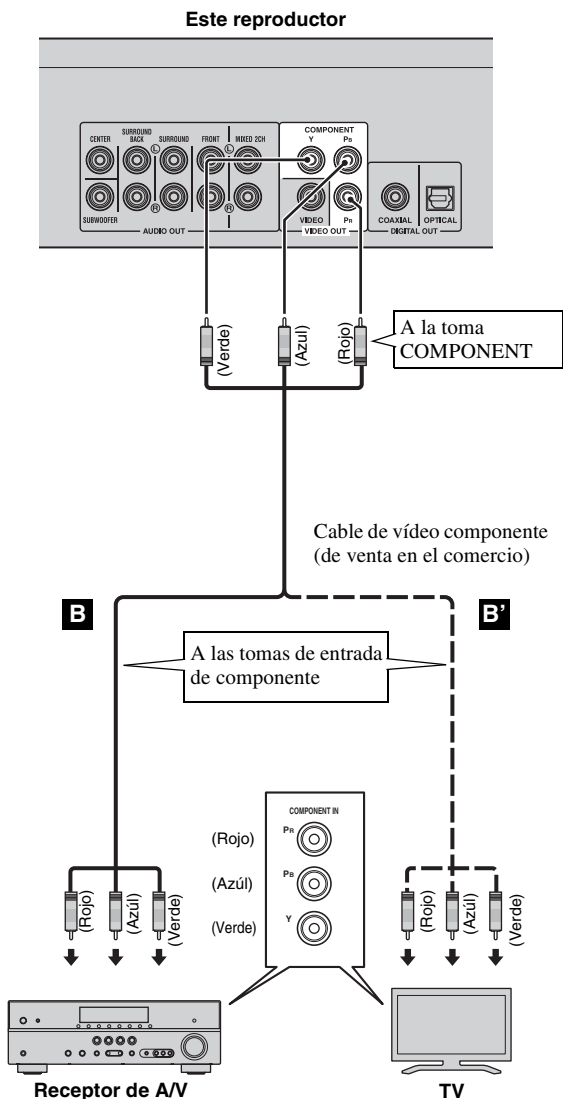
CONEXIONES DE VÍDEO

■ Conexión a la toma de vídeo componente

- Puede disfrutar de una reproducción de color precisa y de imágenes de alta calidad a través de las tomas de componente.
- Conecte con firmeza un cable de vídeo componente (vendido en comercios) o un cable de clavijas de vídeo a la toma COMPONENT/toma de VIDEO.
- Consulte la página 35 para obtener información sobre los formatos de salida de vídeo.

¡Precaución!

No conecte el cable de alimentación del reproductor hasta haber finalizado todas las conexiones.



Nota

- Si reproduce la imagen mediante una vídeo grabadora, la imagen puede deteriorarse debido a la función de protección contra la copia.

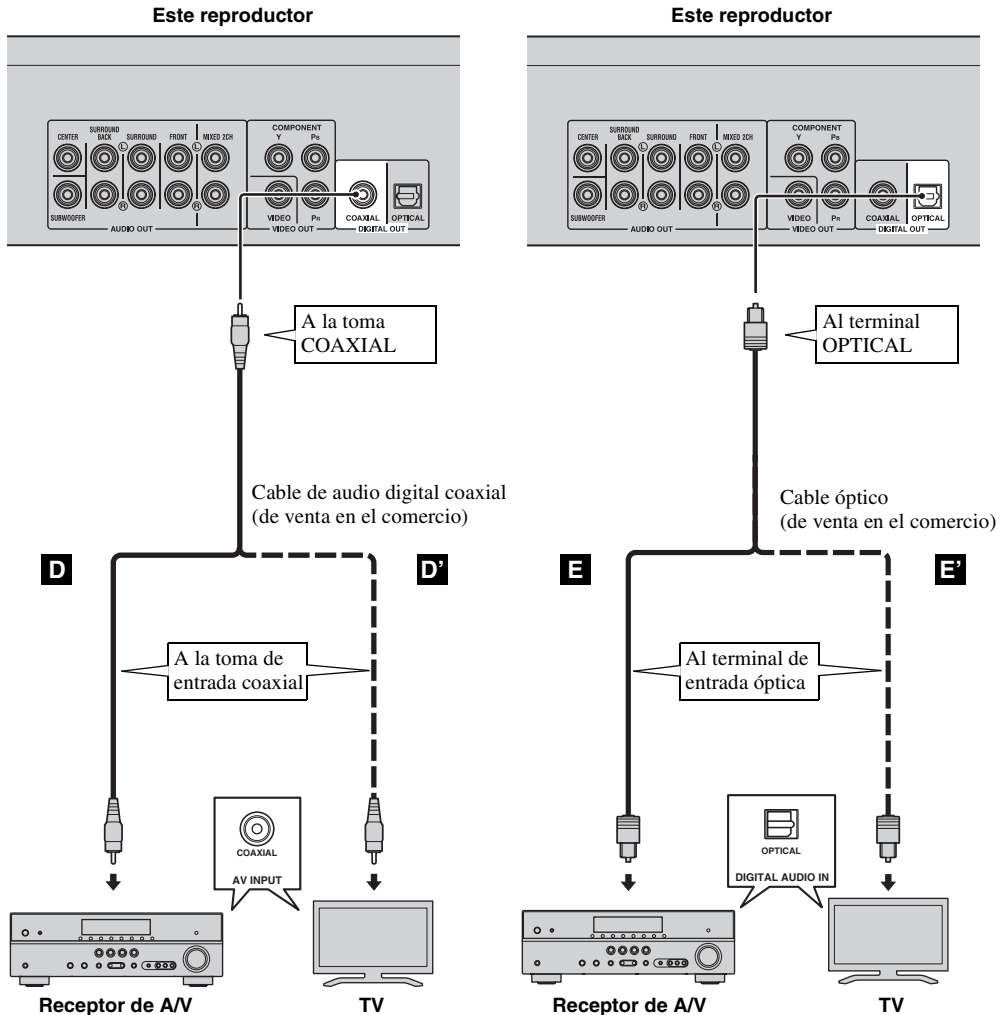
CONEXIONES DE AUDIO

■ Conexión con el terminal/toma de audio digital

- Puede conectar el equipo de audio o el televisor en la toma COAXIAL o el terminal OPTICAL.
- Conecte con firmeza un cable de audio digital coaxial (de venta en el comercio) o un cable óptico (de venta en el comercio) a la toma de audio digital coaxial o al terminal de audio digital óptico.
- Consulte la información sobre los formatos de salida de audio en la página 34.

¡Precaución!

No conecte el cable de alimentación del reproductor hasta haber finalizado todas las conexiones.



Consejo

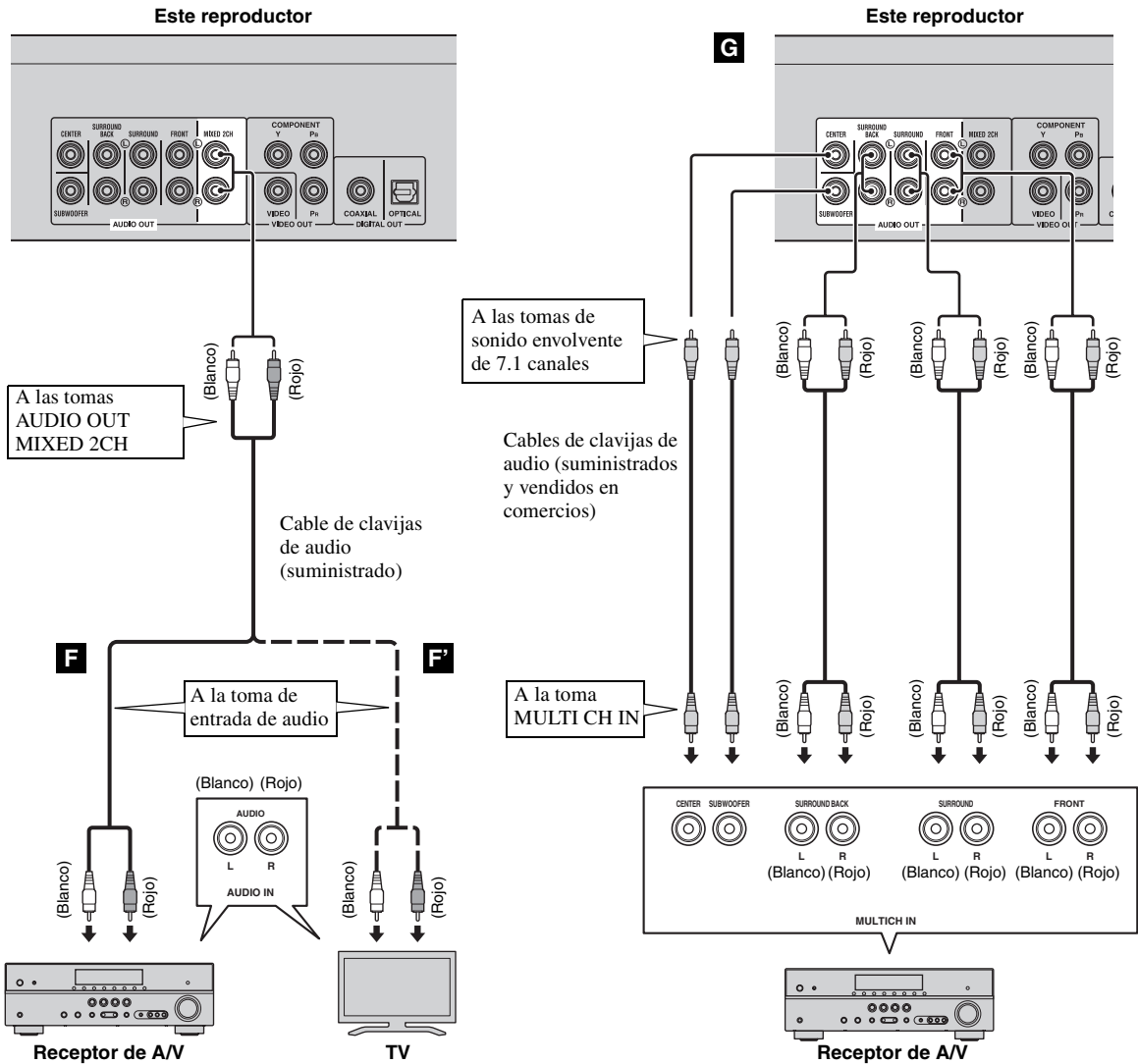
- Para más información sobre el modo de salida de la toma COAXIAL o terminal OPTICAL, consulte "Coaxial/Optica" (pág. 33).

■ Conexión con las tomas de audio

- Puede conectar el equipo de audio o el televisor en las tomas MIXED 2CH/sonido envolvente de 7.1 canales.
- Conecte con firmeza cables de clavijas de audio (suministrados o vendidos en comercios) a las tomas MIXED 2CH o las tomas de sonido envolvente de 7.1 canales.
- Consulte la información sobre los formatos de salida de audio en la página 34.
- Si desea reproducir audio SA-CD y DVD-Audio multicanal, conecte las tomas de sonido envolvente de 7.1 canales a las tomas de entrada correspondientes del receptor de A/V mediante cables de clavijas de audio vendidos en comercios.

¡Precaución!

No conecte el cable de alimentación del reproductor hasta haber finalizado todas las conexiones.



Consejos

- Puede conectar un altavoz de graves directamente a la toma SUBWOOFER. Si conecta el televisor directamente a este reproductor, conecte un altavoz de graves activo, como el Yamaha Active Servo Processing Subwoofer System, a esta toma.
- Para emitir la señal de audio desde las tomas MIXED 2CH/de sonido envolvente de 7.1 canales, consulte "Ajuste de altavoz" (pág. 33).

CONEXIÓN DE RED Y USB

■ Conexión con el terminal NETWORK y el puerto USB

- El contenido del PC se puede reproducir conectando este reproductor a la red.
- Puede disfrutar de una variedad de contenido con funciones interactivas gracias a la conexión a Internet cuando reproduzca discos compatibles BD-Live. Consulte la página 25 para obtener información adicional sobre las funciones de BD-Live.
- Puede conectar un dispositivo de memoria USB (2 GB o superior y formateado con FAT 32/16) para BD Almacenamiento Local al puerto USB del panel posterior (o delantero) del reproductor para guardar los datos BD-Live o para actualizar el software de este reproductor. Para guardar los datos en el dispositivo de memoria USB del panel frontal, consulte “Almacenamiento Local” (pág. 29).
- Conecte con firmeza un cable de red (vendido en comercios) y un dispositivo de memoria USB (vendido en comercios) al terminal NETWORK y al puerto USB.
- Utilice sólo un cable de red STP (par trenzado blindado).
- Cuando se emplee Internet, se necesita una conexión a Internet de banda ancha como se muestra más abajo.
- Conecte el otro conector del cable de red al nodo/enrutador de banda ancha.

Antes de utilizar el dispositivo de memoria USB

PRECAUCIÓN:

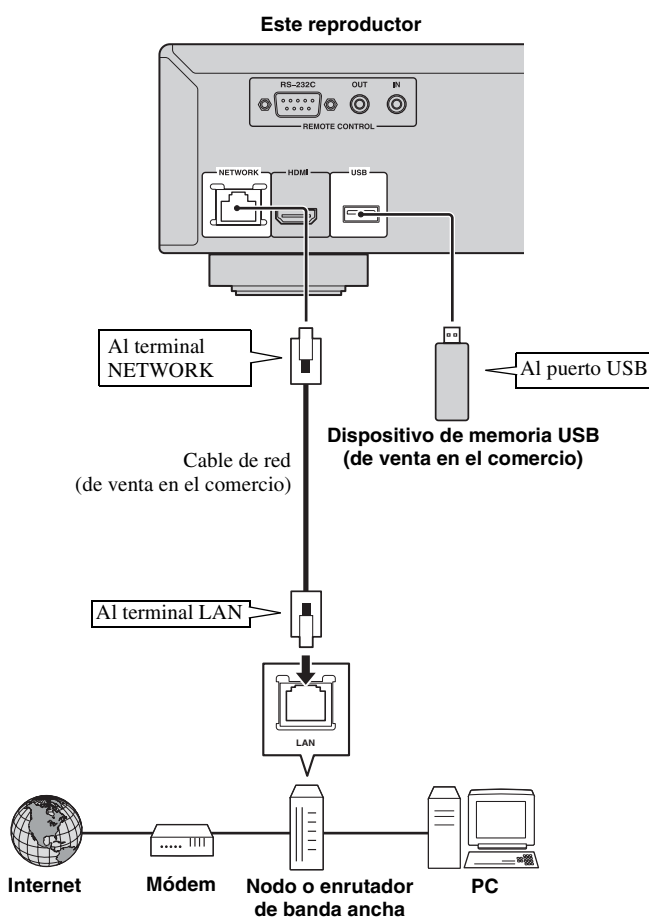
- No desconecte el dispositivo de memoria USB ni desenchufe el cable de alimentación mientras se estén realizando las operaciones de Almacenamiento Local (pág. 29) o se esté llevando a cabo la actualización del software.
- No utilice un cable de extensión USB cuando conecte un dispositivo de memoria USB al puerto USB del reproductor. El uso de un cable de extensión USB podría impedir que el reproductor funcione correctamente.

Nota

- Yamaha no puede garantizar que todas las marcas de dispositivos de memoria USB funcionen con este reproductor.

Notas

- Cuando utilice una conexión a Internet de banda ancha, es necesario un contrato con un proveedor de servicios de Internet. Para más información, póngase en contacto con su proveedor de servicios de Internet más cercano.
- Consulte el manual de manejo de su equipo ya que el equipo conectado y el método de conexión pueden variar dependiendo de su entorno de Internet.
- Emplee un cable de red/enrutador compatible con 10BASE-T/100BASE-TX.



Después de la conexión

- Para establecer el parámetro de Red manualmente, consulte “Red” (pág. 31).
- Para reproducir el contenido del PC en su red, consulte “Uso del contenido de red” (pág. 21).

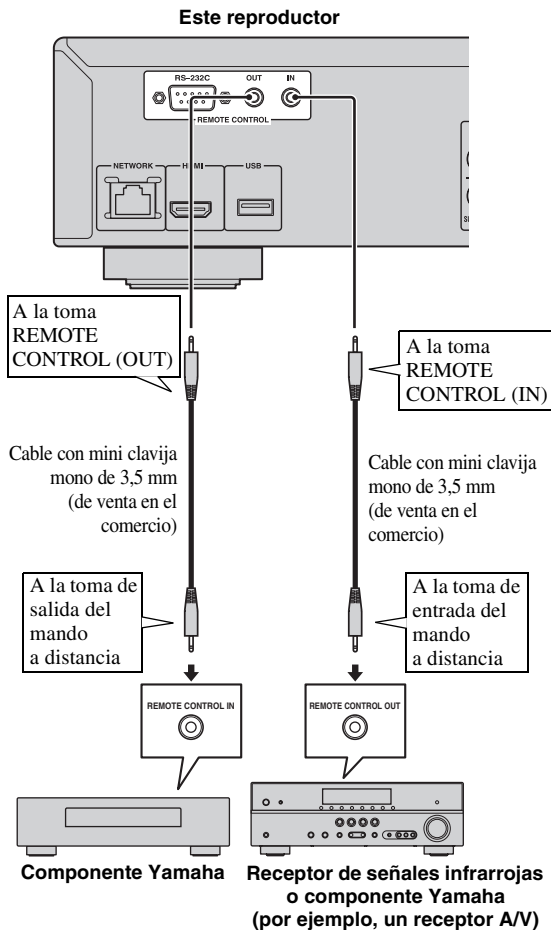
OTRAS CONEXIONES

■ Conexión a las tomas REMOTE CONTROL

- Puede transmitir y recibir las señales del mando a distancia conectando a las tomas REMOTE CONTROL (OUT/IN).
- Conecte con firmeza cables con mini clavija mono de 3,5 mm (de venta en el comercio) en los terminales REMOTE CONTROL (OUT/IN).
- Si su receptor de AV es un producto Yamaha y tiene la capacidad de transmitir señales de control SCENE, puede controlar el reproductor con la función SCENE.

¡Precaución!

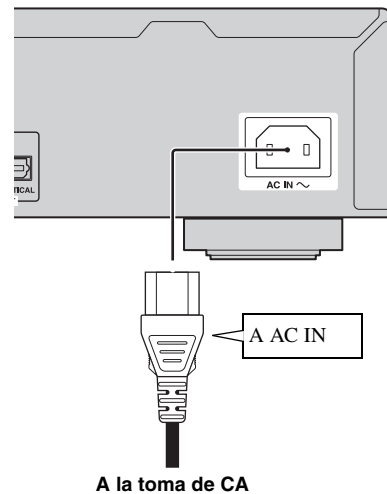
No conecte el cable de alimentación del reproductor hasta haber finalizado todas las conexiones.



- Puede conectar un componente Yamaha (como, por ejemplo, un reproductor de CD) que sea compatible con la función SCENE a la toma REMOTE CONTROL (OUT) de este reproductor.
- El terminal RS-232C es un terminal de ampliación de control para usos comerciales. Solicite más información a su distribuidor.

■ Conexión del cable de alimentación

- Después de realizar todas las conexiones, enchufe el cable de alimentación suministrado a la AC IN de la parte trasera del reproductor. A continuación enchúfelo en una toma de CA.



Nota

- PARA PREVENIR EL RIESGO DE DESCARGAS ELÉCTRICAS, NO TOQUE LAS PARTES SIN AISLAMIENTO DE NINGÚN CABLE CUANDO EL CABLE DE ALIMENTACIÓN ESTÉ CONECTADO.

Consejos

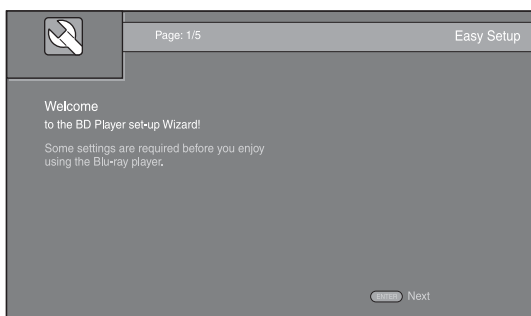
- Para más detalles sobre la función SCENE, consulte el manual de instrucciones de su receptor de A/V Yamaha.

ASISTENTE INICIAL/CONFIGURACIÓN SENCILLA

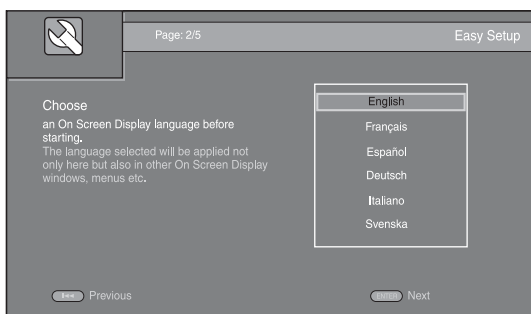
■ Configuración con el Asistente inicial/Configuración Sencilla

Asistente inicial/Configuración Sencilla le permite establecer con facilidad el idioma, la resolución y la relación de aspecto de pantalla. La pantalla Asistente inicial se muestra cuando enciende el reproductor por primera vez después de la compra o actualización. El mismo ajuste se puede realizar desde el menú **SETUP** → Sistema → Configuración Sencilla.

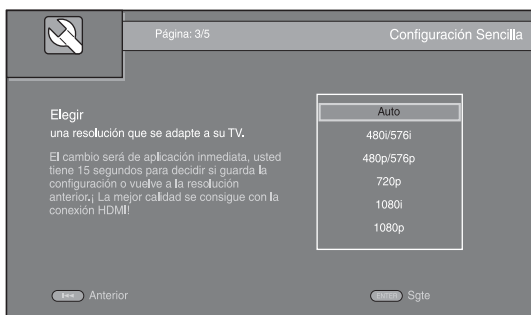
- 1 Cuando se muestre la pantalla Configuración Sencilla, pulse **ENTER** para iniciar Configuración Sencilla.



- 2 Pulse **▲/▼** para seleccionar el idioma que desea ver en la pantalla y, después, pulse **ENTER**.

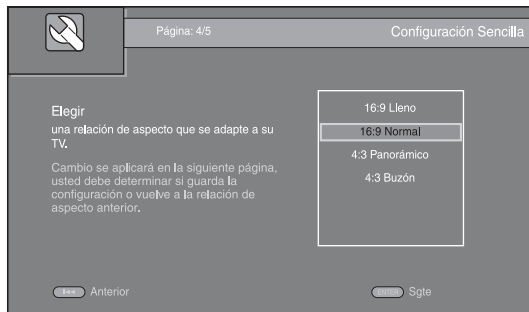


- 3 Pulse **▲/▼** para seleccionar la resolución, a continuación pulse **ENTER**. Para obtener detalles sobre la configuración de elementos, consulte “Resolución” (pág. 31).



- 4 Pulse **▲/▼** para seleccionar la relación de aspecto de pantalla, a continuación pulse **ENTER**. Para más detalles sobre la configuración de elementos, consulte “Pantalla de TV” (pág. 31).

La Configuración Sencilla se ha completado.



Nota

- Si no se muestra la imagen tras completar Asistente inicial/Configuración Sencilla, consulte “RESOLUCIÓN DE PROBLEMAS” (pág. 38).

MENÚ HOME/MEDIA

Los menús HOME y MEDIA le permiten examinar y reproducir archivos multimedia en discos de datos, dispositivos de memoria USB y su red.

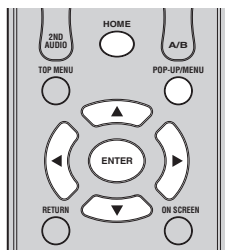
Nota

- Para conocer los detalles sobre los discos y formatos que se pueden reproducir, consulte la página 3.

■ Reproducción de Foto/Música/Video

Funcionamiento básico

- ▲/▼: Mueve la selección.
- ◀: Vuelve a la carpeta principal.
- ▶: Activa/desactiva el archivo/carpeta simple.
- HOME:** Permite entrar/salir de la pantalla de menú HOME.
- ENTER:** Confirma la carpeta/archivo.
- POP-UP/MENU:** Se abre Menú de Edición.



Iconos sobre el menú MEDIA

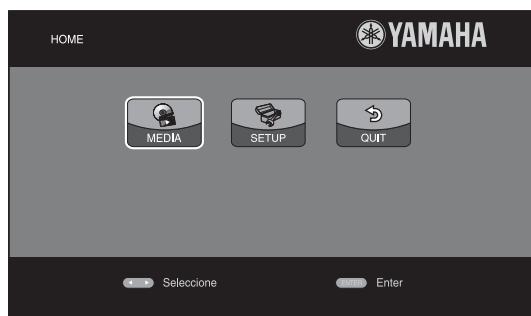
- : Reproduce el disco que hay en la bandeja o muestra el contenido del disco de datos.
- : Muestra el contenido del dispositivo de memoria USB conectado al puerto USB.
- : Busca un servidor DLNA (pág. 21) en la red.
- : Muestra el contenido del servidor DLNA conectado.

Operaciones comunes para la reproducción de archivos en una carpeta seleccionada

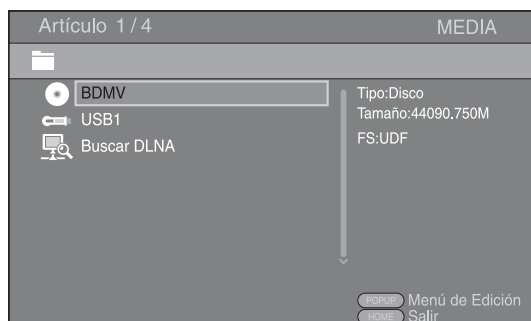
Ejemplo: Selección de un archivo de película en un dispositivo de memoria USB

Nota

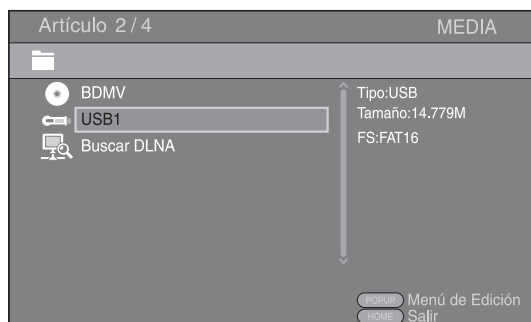
- Detenga la reproducción del vídeo antes de desplazarse a la pantalla de menú MEDIA.
- 1 Pulse **HOME** para pasar a la pantalla del menú HOME. Pulse ◀/▶ para seleccionar MEDIA y pulse **ENTER**.



- 2 Aparece la pantalla MEDIA.



- 3 Seleccione el elemento que contiene el archivo que desea reproducir, a continuación pulse **ENTER**.



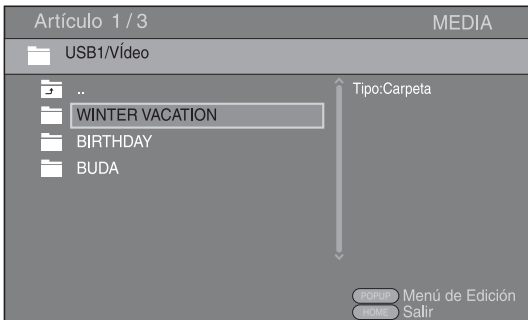
- 4 Seleccione la carpeta Foto, Música, Vídeo o AVCHD que desea reproducir, a continuación pulse **ENTER**. Para volver a la carpeta principal, pulse ◀ o seleccione **HOME**.



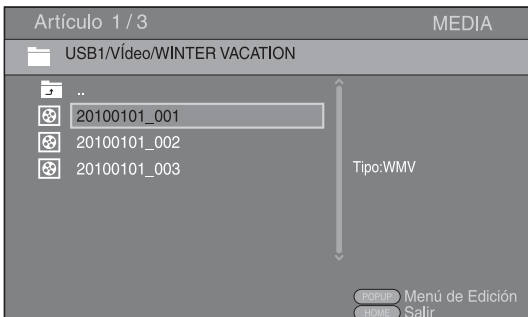
Nota

- Tenga en cuenta que en el siguiente paso sólo se mostrarán los archivos del tipo que seleccione en este paso. Por ejemplo, si selecciona la carpeta Foto en este paso, sólo se mostrarán archivos de fotos después de este paso. Cuando desee reproducir un tipo de archivo distinto a foto, vuelva a esta jerarquía y seleccione de nuevo el tipo de archivo.

- 5 Seleccione las carpetas que contienen el archivo que desea reproducir.



- 6 Seleccione el archivo que desea reproducir, a continuación pulse **ENTER**. Cuando se selecciona un archivo de vídeo se inicia la reproducción. Cuando se selecciona un archivo de música, se muestra la pantalla de estado y se inicia la reproducción. Cuando se selecciona un archivo de fotografía se inicia el pase de diapositivas.



Consejo

- Para disfrutar del pase de diapositivas con música, pulse **HOME** para volver a la pantalla de menú HOME mientras se reproduce la música y seleccione archivo de fotos.

Nota

- Es posible que el archivo mostrado no se reproduzca dependiendo del contenido.

Operaciones para visualización de fotos

Mientras se ven fotos los botones del mando a distancia funcionan como se indica a continuación.

■: Detiene el pase de diapositivas y vuelve al explorador de archivos.

■ ■: Establece una pausa en un pase de diapositivas.

▶▶▶: Reproduce un pase de diapositivas.

▶▶▶▶: Pasa a la fotografía siguiente.

◀◀◀: Pasa a la fotografía anterior.

▶▶▶▶▶: Acelera un pase de diapositivas en 3 pasos.

◀◀◀◀◀: Ralentiza un pase de diapositivas en 3 pasos.

▲: Invierte una foto.

▼: Muestra la foto reflejada.

◀: Gira una foto en sentido contrario a las agujas del reloj.

▶: Gira una foto en el sentido de las agujas del reloj.

ZOOM: Amplía/reduce una foto (ampliar/reducir zoom: 3 pasos cada uno).

▲/▼/◀/▶: Permite desplazarse en modo de zoom cuando la foto es mayor que la pantalla.

DIGEST: Cambia a modo de miniaturas (pág. 7). Cuando se muestran las miniaturas, puede continuar a la página siguiente o anterior con ◀◀◀/▶▶▶.

■ Uso del contenido de red

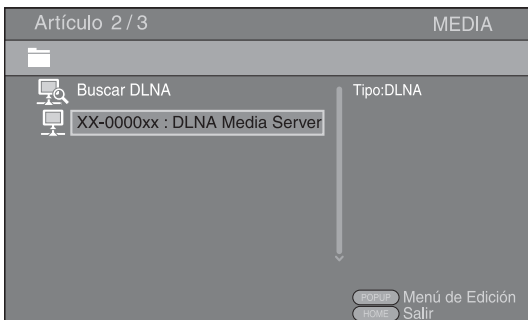
Este reproductor es un reproductor multimedia digital certificado para DLNA. Puede administrar contenido de fotos, música y vídeo almacenado en servidores DLNA en su red doméstica.

Acerca de DLNA

DLNA (Digital Living Network Alliance) permite compartir de forma sencilla medios digitales a través de una red doméstica y puede disfrutar del contenido digital almacenado en su software, PC instalado, servidor DLNA u otro dispositivo compatible con DLNA con su TV a través de este reproductor. Para conectar este reproductor a sus servidores DLNA se requieren algunos ajustes del dispositivo o del servidor DLNA. Para más detalles, consulte el software del servidor DLNA o el dispositivo DLNA.

Reproducción de contenido compartido

- 1 Para reproducir archivos en el PC, instale un software de servidor DLNA como, por ejemplo Windows Media Player 12 y comparta los archivos que desee reproducir.
- 2 Encienda el PC con el software de servidor DLNA instalado o el dispositivo DLNA conectado a su red doméstica.
- 3 Pulse **HOME** para mostrar la pantalla de menú HOME. Seleccione **MEDIA** para pasar al menú MEDIA. Los servidores DLNA conectados a la red aparecen en pantalla.



Notas

- Si su servidor DLNA no aparece en la lista, seleccione **Buscar DLNA** para buscarlo.
- Dependiendo del servidor DLNA, es posible que sea necesario autorizar al reproductor desde el servidor.
- Para reproducir el archivo en el servidor DLNA, el reproductor y el servidor deben estar conectados al mismo punto de acceso.
- Es posible que los requisitos de archivo no siempre sean compatibles. Podría haber algunas restricciones dependiendo de las características de los archivos y de la capacidad del servidor DLNA.

- 4 Seleccione el archivo que desee reproducir.

Notas

- La calidad de funcionamiento y reproducción podría verse afectada por las condiciones de la red doméstica.
- Es posible que los archivos de medios extraíbles tales como dispositivos de memoria USB o unidades de DVD del servidor de medios no se compartan correctamente.

FUNCIONAMIENTO DE REPRODUCCIÓN AVANZADO

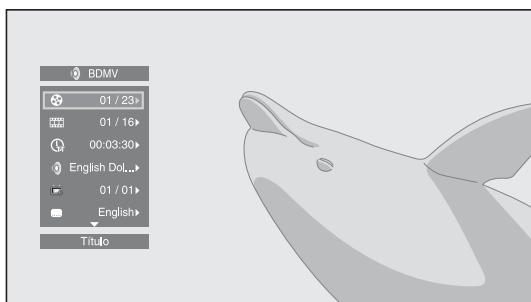
En este capítulo se explica la reproducción de discos BD y DVD vendidos en comercios, SA-CD, CD y discos DVD-RW/R grabados.

Nota

- Para conocer el funcionamiento básico de reproducción, consulte la página 6.

■ Menú en pantalla

Para mostrar el menú en pantalla, pulse **ON SCREEN**. A continuación, pulse **▲/▼/◀/▶** para seleccionar un elemento, después pulse **ENTER** para utilizar la función deseada.



El menú en pantalla consta de los siguientes elementos.

Título **BD** **DVD** **VIDEO**: Muestra el número del título que se está reproduciendo. Puede saltar al título deseado seleccionándolo desde este elemento.

Capítulo **BD** **DVD** **VIDEO**: Muestra el número del capítulo que se está reproduciendo. Puede saltar al capítulo deseado seleccionándolo desde este elemento.

Pista/Archivo **CD** **VIDEO** **MUSIC** **PHOTO**: Muestra el número de la pista o archivo que se está reproduciendo. Puede saltar a la pista o al archivo deseado seleccionándolo desde este elemento.

Hora **BD** **DVD** **CD** **VIDEO** **MUSIC**: Muestra el tiempo de reproducción. Seleccione el tipo de visualización entre los siguientes:

- Tiempo de reproducción transcurrido del título, capítulo, disco, pista o archivo
- Tiempo de reproducción restante del título, capítulo, disco, pista o archivo

Modo/Modo de reproducción

DVD **CD** **VIDEO** **MUSIC** **PHOTO**: Muestra el modo de reproducción actual. Puede seleccionar uno de los modos de reproducción siguientes:

- Normal: Reproducción normal.
- Shuffle: Cada pista/archivo se debe reproducir una vez sin repetición.
- Aleatorio: Reproducción aleatoria real. Se pueden producir repeticiones.

Consejo

- Cuando se reproduce un DVD-Vídeo, puede seleccionar Aleatorio All, Aleatorio TT (título), Aleatorio CH (capítulo), Shuffle All, Shuffle TT (título) y Shuffle CH (capítulo).

Audio **BD** **DVD** **VIDEO**: Muestra el idioma/señal de audio del disco BD/DVD seleccionado actualmente. Puede seleccionar el tipo de audio deseado.

Ángulo **BD** **DVD**: Muestra el número del ángulo seleccionado actualmente. Si el vídeo se ha grabado con varios ángulos, puede cambiar el ángulo.

Subtítulo **BD** **DVD** **VIDEO**: Muestra el idioma de los subtítulos seleccionados actualmente si hay subtítulos.

Estilo subtítulos **BD**: Muestra el estilo de los subtítulos seleccionados actualmente. Esta función sólo está disponible para subtítulos externos de archivo de vídeo. Puede seleccionar el estilo de texto deseado de los subtítulos.

Bitrate **BD** **DVD** **CD** **VIDEO** **MUSIC**: Muestra el bitrate de la señal de audio/vídeo.

Video secundario **BD**: Activa o desactiva PIP (pág. 6).

Audio Secundario **BD**: Activa o desactiva el audio secundario (pág. 6).

Búsqueda Ins

BD **DVD** **CD** **VIDEO** **MUSIC**: Salta 30 segundos.

Repetición Ins

BD **DVD** **CD** **VIDEO** **MUSIC**: Reproduce el contenido desde 10 segundos antes.

Pase de diapositivas

PHOTO:

Muestra la velocidad del pase de diapositivas. Puede seleccionar la velocidad del pase de diapositivas entre Lento/Medio/Rápido.

Transición **PHOTO**: Muestra cómo aparece la foto en la pantalla. Puede seleccionar el tipo de transición.

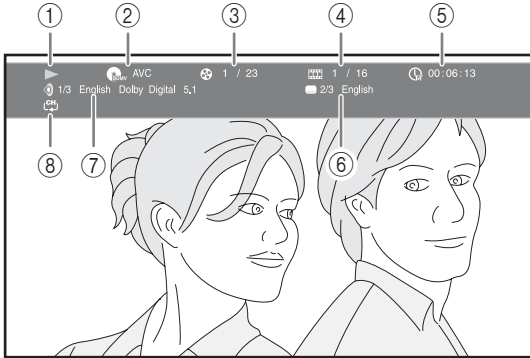
Code Page **VIDEO**: Permite seleccionar el código de caracteres de los subtítulos que ha agregado al vídeo DivX (pág. 40).

■ Menú de estado

Muestra varios ajustes, cómo los subtítulos, el ángulo y el número de título/capítulo/pista reproducido actualmente. Para mostrar el menú de estado, pulse **STATUS**. El menú de estado consta de los siguientes menús.

Al reproducir Vídeo BD/Vídeo DVD o archivo de vídeo

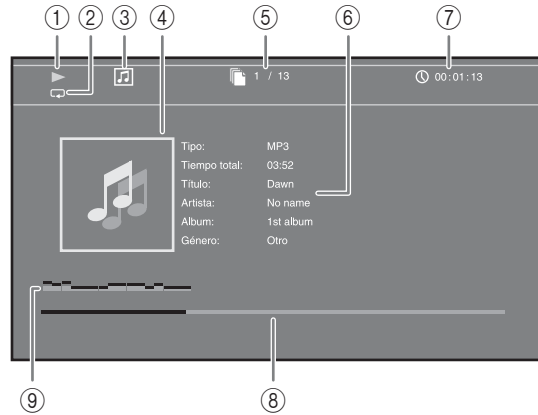
Ejemplo: Iconos cuando se reproduce BD



- ① ▶ (Estado de reproducción)
- ② (Icono de tipo de disco/archivo de vídeo)
- ③ (Número de título que se reproduce): Puede saltar al título especificado con la tecla **SEARCH** (pág. 8).
- ④ (Número de capítulo que se reproduce): Puede saltar al capítulo especificado con la tecla **SEARCH** (pág. 8).
- ⑤ (Tiempo de reproducción transcurrido): Puede saltar al punto especificado con la tecla **SEARCH** (pág. 8).
- ⑥ (Subtítulos seleccionados actualmente): Puede cambiar el idioma de los subtítulos con la tecla **SUBTITLE**.
- ⑦ (Audio seleccionado actualmente): Puede cambiar el formato o idioma de audio con la tecla **AUDIO**.
- ⑧ (Modo repetición): Muestra el modo repetición actual (pág. 8).

Cuando se reproduce un disco de audio o archivos de música

Ejemplo: Iconos cuando se reproduce un archivo de música



- ① ▶ (Estado de reproducción)
- ② (Modo repetición): Muestra el modo repetición actual (pág. 8).
- ③ (Icono de tipo de disco/archivo de música)
- ④ (Gráficos) **MUSIC**: Muestra gráficos si están contenidos en el archivo.
- ⑤ (Número de pista/archivo que se reproduce): Puede saltar a la pista especificada con la tecla **SEARCH** (pág. 8).
- ⑥ (Información) **MUSIC**: Muestra información musical si está contenida en el archivo.
- ⑦ (Tiempo de reproducción transcurrido): Puede saltar al punto especificado con la tecla **SEARCH** (pág. 8).
- ⑧ (Barra de progreso) **MUSIC**: Muestra el estado de progreso de la canción actual.
- ⑨ (Medidor de nivel de audio): Muestra el nivel de volumen actual.

Cuando se visualizan fotos



- ① ▶ (Estado de reproducción)
- ② (Icono de archivo de fotos)
- ③ (Número de archivo que se muestra)
- ④ (Modo repetición): Muestra el modo repetición actual (pág. 8).
- ⑤ (Velocidad de pase de diapositivas)

■ Uso de Marcador **DVD VIDEO**

Le permite establecer un Marcador en un punto especificado del vídeo. Después de establecer el Marcador, puede saltar al punto utilizando esta función. Puede definir hasta 12 marcadores.

- 1 Pulse **MARKER** durante la reproducción de la película para definir el Marcador. Se muestran el número de Marcador y el estado.

Marcador: 1/12 Título: 1 Capítulo: 1 Hora: 00:01:26

- 2 Después de establecer el Marcador, pulse **DIGEST** para mostrar la barra de selección de Marcador.

Título:01 Capítulo:01 Hora: 00:01:26 Marcador
 01 02 03 04 05 06 07 08 09 10 11 12 **CLARO** Claro

- 3 Pulse **◀/▶** para seleccionar el Marcador que desee reproducir, a continuación pulse **ENTER**. Pulse **CLEAR** para eliminar el Marcador seleccionado.

Nota

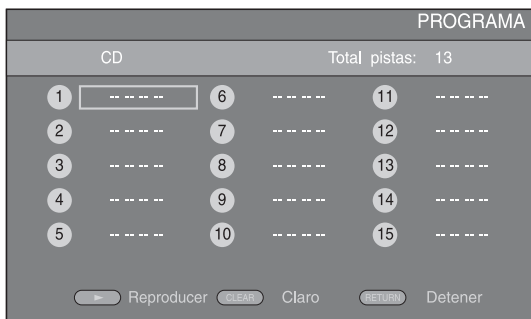
- Cuando finaliza la reproducción (por ejemplo, al expulsar el disco o al presionar **■** dos veces), los marcadores se eliminan automáticamente.

■ Reproducción de programa **DVD CD**

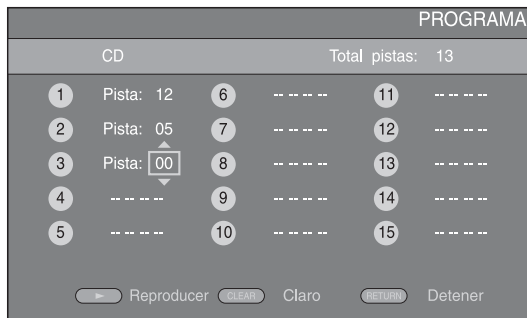
Esta opción le permite programar el orden de reproducción de las pistas de un disco de audio o de los capítulos de DVD. Pulse **PROGRAM** durante la reproducción para mostrar la ventana PROGRAMA para programar el orden de reproducción. Puede programar hasta 15 pistas/capítulos.

Ejemplo: Programación del orden de reproducción de pistas de CD

- 1 Pulse **PROGRAM** durante la reproducción.



- 2 Pulse **ENTER** para programar el orden de reproducción. Para un disco de audio, pulse **▲/▼** para seleccionar una pista deseada y, a continuación, pulse **ENTER**. Para un disco DVD-Vídeo, seleccione un título deseado (mostrado como TT) y capítulo (mostrado como CH) en lugar de una pista. Para borrar una pista establecida, seleccione la pista que desea borrar y, a continuación, pulse **CLEAR**. Pulse **RETURN** para cancelar la reproducción del programa.



- 3 Una vez finalizada la programación, pulse **▶** para definir e iniciar la reproducción del programa.
- 4 Para cancelar la reproducción del programa, detenga la reproducción por completo pulsando **■** dos veces.





■ Uso de la búsqueda

BD DVD CD VIDEO MUSIC




Esta opción le permite saltar a un punto específico durante la reproducción.

- 1 Pulse **SEARCH** durante la reproducción. Aparece la barra de estado.
- 2 Pulse **▲/▼/◀/▶** para seleccionar uno de los elementos siguientes, a continuación pulse **ENTER**.



BD DVD :

- Número de título (mostrado como )
- Número de capítulo (mostrado como )
- Tiempo de título transcurrido (mostrado como )
- Tiempo de capítulo transcurrido (mostrado como )

CD :

- Número de pista (mostrado como )
- Tiempo de pista transcurrido (mostrado como )
- Tiempo de disco transcurrido (mostrado como )

VIDEO MUSIC :

- Número de archivo (mostrado como )
- Tiempo de archivo transcurrido (mostrado como )

- 3 Pulse **▲/▼** o las teclas de número para definir o ajustar el valor del elemento seleccionado y pulse **ENTER** para saltar al punto especificado.
- 4 Para cerrar la barra de estado, pulse **STATUS**.

■ Disfrute de BONUSVIEW y BD-Live

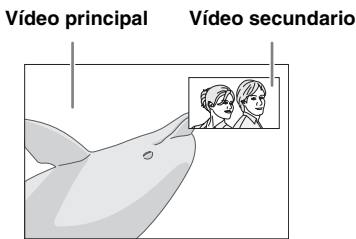
Este reproductor admite las funciones de reproducción de BONUSVIEW (pág. 40) (BD-ROM Perfil 1 Versión 1.1) y BD-Live (pág. 40) (BD-ROM Perfil 2).

Nota

- Las funciones y el método de reproducción varían según el disco. Siga las indicaciones del disco o del manual de usuario suministrado.

■ Utilización de la función Imagen en Imagen (reproducción de audio/vídeo secundario)

El Vídeo BD que incluye audio y vídeo secundario compatible con Imagen en Imagen se puede reproducir con audio y vídeo secundario simultáneamente como un vídeo pequeño en la esquina.



Mientras se muestra Marca PIP (PIP) o Marca Audio Secundario (CAS), pulse PIP para activar o desactivar la función Imagen en imagen.

Notas

- Para escuchar audio secundario, asegúrese de que el ajuste Salida de audio (Coaxial/Optica o HDMI) se ha definido en PCM o Recodificar (pág. 33).
- Dependiendo del disco, para escuchar audio secundario, es posible que tenga que activar el audio secundario en el menú principal del disco (pág. 7).
- Dependiendo del contenido, el audio y el vídeo secundario para Imagen en Imagen pudiera reproducirse y desaparecer automáticamente. Además, pudiera haber restricción respecto a las áreas que pueden visualizarse.

■ Utilización de la función de BD-Live

1. Ajuste de la configuración de red (pág. 31).

2. Conecte el dispositivo de memoria USB al reproductor (pág. 16).

Los datos de BD-Live se guardan en Almacenamiento Local (pág. 29) (dispositivo de memoria USB conectado al reproductor). Para disfrutar de estas funciones, conecte un dispositivo de memoria USB (2 GB o superior y formateado con FAT 32/16) compatible con USB 2.0 de alta velocidad (480 Mbit/s) al puerto USB (pág. 16).

- La carpeta BUDA se crea automáticamente en el dispositivo de memoria USB cuando es necesario.
- Si el espacio de almacenamiento es insuficiente, los datos no se copiarán/descargarán. Elimine datos innecesarios o utilice un nuevo dispositivo de memoria USB.
- Puede requerirse algún tiempo para que se carguen (lectura/escritura) los datos.

Notas

- Yamaha no puede garantizar que todas las marcas de dispositivos de memoria USB funcionen con este reproductor.
- No utilice un cable de extensión USB cuando conecte un dispositivo de memoria USB al puerto USB del reproductor. El uso de un cable de extensión USB podría impedir que el reproductor funcione correctamente.

3. Reproducción del disco.

4. Ejecute BD-Live siguiendo las instrucciones del disco.

Notas

- En relación con el método de reproducción de contenidos BD-Live, etc., lleve a cabo las operaciones de acuerdo con las instrucciones del manual del disco BD.
- Para disfrutar de las funciones de BD-Live, realice la conexión de red (pág. 16) y los ajustes de Red (pág. 31).
- Consulte la “Conexión BD-Live” (pág. 31) en relación con la configuración para restringir el acceso a contenidos BD-Live.
- El tiempo que se necesita para descargar los programas que se ofrecen al dispositivo de memoria USB conectado en este reproductor depende de las velocidades de conexión a Internet y del volumen de datos de los programas.
- Los programas BD-Live suministrados a través de Internet podrían no ser capaces de mostrar la conexión dependiendo del estado (actualización) del proveedor. En tal caso, extraiga el disco y vuelva a intentarlo.
- Si la pantalla BD-Live no aparece durante un rato después de seleccionar la función BD-Live en el menú del disco BD, es posible que el dispositivo de memoria USB no tenga suficiente espacio libre. En tal caso, expulse el disco del reproductor y, a continuación, borre los datos del dispositivo de memoria USB utilizando el menú “Formato” de “Almacenamiento Local” (pág. 29).

MENÚ SETUP

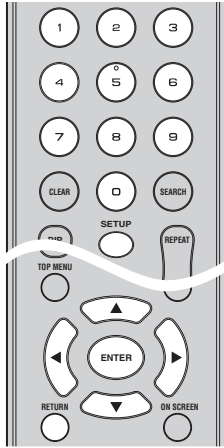
El Menú SETUP permite realizar diversos ajustes y configuraciones audiovisuales en las funciones utilizando el mando a distancia.

Menú/Submenú	Elemento	Función	Página	
 Configuración General	Sistema	Protector de pantalla	Activa/desactiva el protector de pantalla.	29
	Reproducción Automática Disco	Ajusta el reproductor para que inicie automáticamente la reproducción del disco.	29	
	Control HDMI	Configura el reproductor para que reciba la señal de control desde el mando a distancia de su receptor de TV/AV.	29	
	Control de Red	Activa o desactiva el control a través de Ethernet.	29	
	Cargar configuración por defecto	Restablece todos los ajustes a los valores predeterminados, excepto el ajuste Seguridad.	29	
	Actualizar	Realiza la actualización del reproductor.	29	
	Configuración Sencilla	Ajusta el idioma, la resolución y la relación de aspecto de la pantalla.	29	
	Almacenamiento Local	Muestra el estado de Almacenamiento Local (pág. 29), formatea Almacenamiento Local y selecciona el puerto USB delantero o posterior de Almacenamiento Local.	29	
	Idioma	OSD	Selecciona el idioma del menú en pantalla.	30
	Menú	Permite dar prioridad al idioma del menú del disco.	30	
	Audio	Permite dar prioridad al idioma del audio.	30	
	Subtítulo	Permite dar prioridad al idioma de los subtítulos.	30	
	Reproducción	Subtítulos	Activa o desactiva los subtítulos.	30
	Marca de Angulo	Ajuste para mostrar la Marca de Angulo cuando se reproducen BD/DVD con ángulos múltiples.	30	
	Marca PIP	Ajuste para mostrar la Marca PIP cuando se reproducen BD/DVD con Imagen en imagen.	30	
	Marca Audio Secundario	Ajuste para mostrar la Marca Audio Secundario cuando se reproducen BD/DVD con audio secundario.	30	
	DivX(R) VOD DRM	Muestra el código de registro del vídeo DivX(R).	30	
	Modo DVD-Audio	Ajusta el modo DVD-Audio en DVD-Audio/DVD-Vídeo.	30	
	Seguridad	Cambiar Contraseña	Permite cambiar la contraseña de Control Paterno y Código de país.	30
	Control Paterno	Establece el Control Paterno en función del contenido del disco.	30	
	Código de país	Establece el Código de país.	30	
	Red	Conexión a Internet	Permite definir la conexión a Internet en Permitir/Desactivar.	31
	Información	Muestra la pantalla de información de red.	31	
	Prueba de conexión	Realiza la prueba de conexión de red.	31	
	Configuración IP	Permite definir la configuración IP en Auto/Manual.	31	
	Conexión BD-Live	Permite definir la conexión a BD-Live en Autorizada/Permitida Parcialmente/Prohibido.	31	
	DLNA	Permite definir la conexión a DLNA en Permitir/Desactivar.	31	
	Configuración Proxy	Permite definir la configuración proxy.	31	

Menú/Submenú	Elemento	Función	Página	
 Configuración de pantalla	TV	Pantalla de TV	Ajusta la relación de aspecto de la pantalla del televisor conectado, y ajusta la salida de vídeo.	31
		Resolución	Selecciona la resolución del vídeo de salida.	31
		Sistema de TV	Permite seleccionar el Sistema de TV entre NTSC/PAL/Multi.	32
		Color Space	Selecciona el espacio de color entre las opciones RGB/YCbCr 4:4:4/YCbCr 4:2:2/Full RGB.	32
		HDMI Deep Color	Permite seleccionar HDMI Deep Color entre 30 bits/36 bits/Desactivar.	32
		HDMI 1080p 24Hz	Activa o desactiva HDMI 1080p 24Hz.	32
		Sincronismo de labios	Ajusta el retardo entre vídeo y audio, como por ejemplo cuando el movimiento de la boca no se corresponde con la voz.	32
	Procesamiento de Vídeo	Modo de Vídeo	Ajusta la imagen visual.	32
		Ajuste de color	Ajusta Brillo/Saturación/Tonalidad para cada color.	32
		Contraste automático	Ajusta el contraste para optimizar la imagen reproducida.	32
		Reducción de ruido	Ajusta el nivel de Reducción de ruido.	32
Modo desentrelazado		Ajusta cómo detectar la señal de vídeo.	32	
 Configuración de audio	Salida de audio	Coaxial/Optica	Permite seleccionar el modo de salida de la toma COAXIAL/terminal OPTICAL entre Bitstream/PCM/Recodificar/Desactivar.	33
		HDMI	Permite seleccionar el modo de salida del terminal HDMI entre Bitstream/PCM/Recodificar/Desactivar.	33
		Downsampling	Permite seleccionar la frecuencia de submuestreo de la señal de audio digital entre 48k/96k/192k.	33
		DRC	Define el DRC (Control de gama dinámica).	33
	Salida SACD	Prioridad SACD	Selecciona un contenido cuando se reproduce un SA-CD híbrido.	33
		Salida HDMI	Selecciona el modo de salida del terminal HDMI entre DSD/PCM cuando se reproduce un SA-CD.	33
	Ajuste de altavoz	Configuración	Establece la salida de audio de la toma sonido envolvente de 7.1 canales.	33
		Mezcla descendente 2 Canales	Selecciona el método de mezcla descendente de 2 canales analógico.	33
	Post-procesamiento		Convierte la señal de audio de 2 canales en multicanal.	33
	 Sistema de Información		Muestra la versión de software y la dirección MAC (pág. 41).	33

■ Ejemplo de funcionamiento del menú SETUP

Debe llamar a la pantalla de menú SETUP para realizar los ajustes en el reproductor. A continuación se explican las operaciones básicas del menú SETUP.



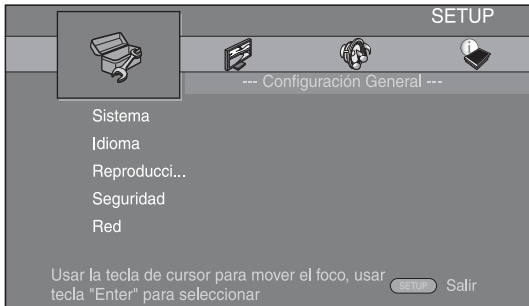
Ejemplo: Ajuste de Control Paterno

Nota

- Algunos elementos no se pueden ajustar durante la reproducción. En este caso, pulse dos veces **■** para detener la reproducción completamente antes de realizar el ajuste.

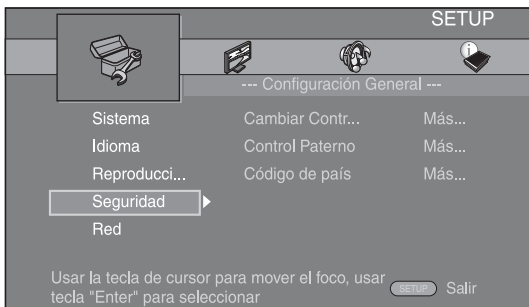
1. Muestre la pantalla de menú SETUP.

Pulse **SETUP** para mostrar la pantalla de menú SETUP. Pulse **◀/▶** para seleccionar Configuración General, a continuación pulse **ENTER** o **▼**.



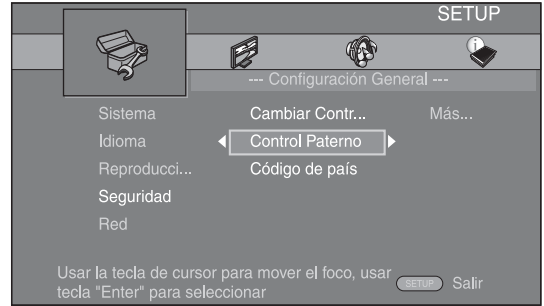
2. Seleccione un submenú.

Pulse **▲/▼** para seleccionar Seguridad, a continuación pulse **ENTER** o el cursor **▶**.



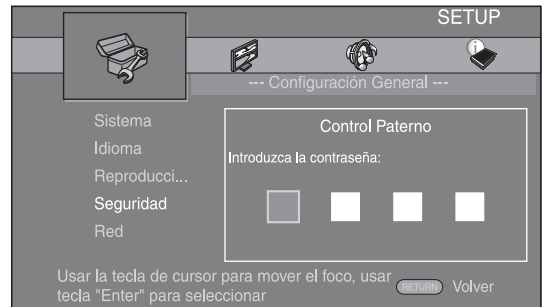
3. Seleccione un elemento del menú.

Pulse **▲/▼** para seleccionar Control Paterno, a continuación pulse **ENTER** o el cursor **▶**.



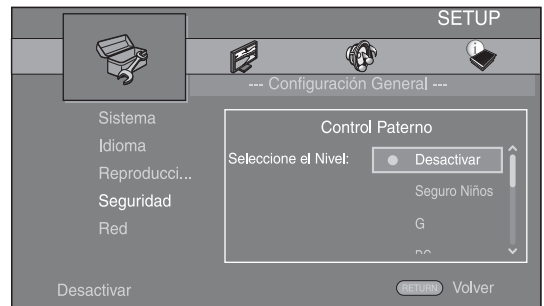
4. Introduzca la contraseña.

- Introduzca la contraseña con las teclas numéricas.
- La contraseña predeterminada es 0000.
- No puede ir a la siguiente pantalla de configuración hasta que no haya introducido la contraseña correcta.
- Para cambiar la contraseña, consulte “Cambiar Contraseña” (pág. 30).



5. Seleccione un elemento siguiente.

Pulse **▲/▼** para seleccionar el nivel de Control Paterno para BD/DVD, a continuación pulse **ENTER**.



6. Salga de la pantalla del menú

Pulse **◀** para volver al menú anterior.

■ Configuración General

Los ajustes predeterminados están marcados con “*”.

Sistema

Protector de pantalla

Puede definir el protector de pantalla en activado o desactivado. Cuando se activa, el reproductor pasará a modo de protector de pantalla si no se utiliza durante 3 minutos. Posteriormente, el reproductor pasará a modo de espera cuando no se utilice durante 6 minutos.

Activar*, Desactivar

Reproducción Automática Disco

Puede activar o desactivar la Reproducción Automática Disco. Cuando se activa, el disco se reproducirá automáticamente después de cargarlo.

Activar*, Desactivar

Control HDMI

Puede ajustar el reproductor para que reciba una señal de control desde un receptor de TV/AV compatible con la función Control HDMI a través de un cable HDMI (pág. 12).

Activar, Desactivar*

Utilización de la función Control HDMI

Con la función de Control HDMI, puede operar interactivamente este reproductor con su televisor (si soporta la función de Control HDMI). Cuando se conecta el reproductor al televisor compatible con la función de Control HDMI mediante un cable HDMI y se activa el Control HDMI en el menú SETUP (pág. 29), puede realizar las funciones indicadas a continuación.

- **Función de selección de entrada automática**
Cuando inicie la reproducción en este reproductor, el selector de entrada del televisor (y de un receptor A/V si este reproductor está conectado con el televisor mediante un receptor A/V) cambia automáticamente a este reproductor. La alimentación del televisor se enciende automáticamente dependiendo del televisor.
- **Función de apagado automático**
Si apaga el televisor cuando este reproductor está en modo de parada y no se visualiza menú SETUP, este reproductor también se apagará automáticamente.

Notas

- Es posible que la función de Control HDMI no funcione correctamente dependiendo del televisor.
- Otras funciones, aparte de las que se han mencionado anteriormente, pueden funcionar según el televisor o receptor A/V.
- Para hacer que la función de Control HDMI esté disponible, configure los ajustes de la función de Control HDMI en TODOS los componentes (este reproductor, el televisor y el receptor de A/V). Es posible que también sean necesarias determinadas operaciones.
- Cada función se puede configurar de forma independiente para activar o desactivar según el televisor.
- Consulte los detalles relacionados con la configuración en los manuales de funcionamiento que se proporcionan con el televisor y/o el receptor A/V.

Control de Red

Puede activar el control a través de Ethernet. Este reproductor utiliza el protocolo Yamaha Network Control (YNC).

Activar, Desactivar*

Notas

- Cuando está activado, el consumo de energía durante el modo de espera aumenta por la función de control de red.
- Cuando está activado, aumenta el tiempo de inicio del sistema.

Cargar configuración por defecto

Puede restablecer todos los ajustes de este reproductor al ajuste predefinido, excepto el ajuste Seguridad (pág. 30). Para conocer detalles sobre los ajustes predeterminados, consulte las páginas 26-33.

Actualizar

Puede actualizar el software manualmente desde Disc, USB Storage o Network. Para conocer detalles sobre la actualización de software, consulte “ACTUALIZACIÓN DE SOFTWARE” (pág. 36).

Configuración Sencilla

Puede realizar la Configuración Sencilla (pág. 18).

Almacenamiento Local

Puede mostrar información de Almacenamiento Local, formatear Almacenamiento Local y seleccionar USB Frontal/USB Trasera para guardar los datos de BD-Live. Para formatear (vaciar) la carpeta BUDA en el dispositivo de memoria USB, seleccione Información y pulse **ENTER** mientras “Formato” está seleccionado en la pantalla.

USB Frontal, USB Trasera*

Almacenamiento Local

Se utiliza como memoria auxiliar cuando se reproduce el disco Blu-ray.

Idioma

OSD

Puede seleccionar el idioma de pantalla, es decir, el menú o los mensajes mostrados en pantalla como, por ejemplo, el menú SETUP.

English*, Français, Español, Deutsch, Italiano, Svenska, Nederlandse, Русский

Menú

Puede dar prioridad al idioma del menú del disco.

English*, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Portugués, Danés, Svenska, Finlandés, Noruega, Русский, Corea, Japonés, Más

Audio

Puede dar prioridad al idioma del audio para la reproducción de BD/DVD. Para obtener detalles sobre la configuración de elementos, consulte "Menú" (pág. 30).

Subtítulo

Puede dar prioridad al idioma de los Subtítulo.

English, Français, 中文, Español, Deutsch, Italiano, Nederlandse, Portugués, Danés, Svenska, Finlandés, Noruega, Русский, Corea, Japonés, Más, Desactivar*


Reproducción

Subtítulos

Puede ajustar que se visualicen los subtítulos (pág. 40) cuando se reproducen BD/DVD con subtítulos.


Activar, Desactivar*

Marca de Angulo

Puede ajustar la visualización de Marca de Angulo () cuando se reproducen BD/DVD con ángulos múltiples.


Activar*, Desactivar

Marca PIP

Puede ajustar la visualización de Marca PIP () cuando se reproducen BD (pág. 25) con Imagen en imagen.

Activar*, Desactivar

Marca Audio Secundario

Puede ajustar la visualización de Marca Audio Secundario () cuando se reproducen BD con audio secundario.

Activar*, Desactivar

DivX(R) VOD DRM

Puede mostrar el código de registro del vídeo DivX(R).

Modo DVD-Audio

Algunos discos DVD-Audio contienen información de DVD-Vídeo además del contenido de DVD-Audio. Puede seleccionar el modo DVD-Audio o DVD-Vídeo.

DVD-AUDIO* Se reproducen los contenidos de DVD-Audio y Vídeo. En función del disco, tal vez solamente pueda reproducirse el contenido de DVD-Audio.

DVD-VÍDEO Solamente se reproduce el contenido de DVD-Vídeo.

Nota

- Este ajuste solamente está disponible si no hay ningún disco cargado.

Seguridad

Cambiar Contraseña

Puede ajustar la contraseña para cambiar el nivel de Control Paterno y Código de país. Consulte "Control Paterno" (pág. 30) y "Código de país" (pág. 30).

Nota

- La contraseña predeterminada es 0000.

Control Paterno

En algunos discos de BD/DVD, existe un nivel de control para la visualización del disco en función de la edad del espectador. Puede ajustar el Control Paterno mostrado en pantalla en función del contenido del disco.

Es necesario introducir la contraseña (consulte "Cambiar Contraseña" en pág. 30) antes de ajustar los niveles de Control Paterno.

Después de ajustar el Control Paterno, si reproduce un disco con un nivel más alto del nivel de Control Paterno actual o si desea cambiar el nivel de Control Paterno, aparecerá un cuadro de diálogo solicitando que introduzca la contraseña.

Desactivar*, 1 a 8

Código de país

Puede ajustar el Código de país en el que vive.

Es necesario introducir la contraseña (consulte "Cambiar Contraseña" en pág. 30) antes de ajustar el Código de país. Este parámetro podría utilizarse para la calificación de Control Paterno y reproducción de discos.

Red

Conexión a Internet

Defina este elemento en Permitir cuando utilice BD-Live (pág. 25), DLNA (pág. 21) y actualice el software desde la red (pág. 36).

Permitir*, Desactivar

Información

Puede mostrar la pantalla de información de red. En esta pantalla puede ver información de Interfaz (Ethernet), Tipo de dirección, Dirección IP, Máscara de subred, Puerta de enlace predeterminada y DNS.

Prueba de conexión

Puede realizar una prueba de conexión a Internet. Si la prueba falla, compruebe la “Configuración IP” (pág. 31) y vuelva a realizar la prueba.

Configuración IP

Puede definir la Configuración IP en Auto/Manual. Cuando se define en Auto, la dirección IP es asignada automáticamente por el sistema. Cuando se define en Manual, la dirección IP, la máscara de subred, la puerta de enlace predeterminada y la DNS se deben ajustar manualmente.

Auto*, Manual

Conexión BD-Live

Puede definir la restricción de acceso al contenido de BD-Live.

Autorizada Permite que todos los discos de BD-Live se conecten a la red.

Permitida Parcialmente* Permite únicamente los discos con certificación de propietario.

Prohibido Prohíbe que todos los discos de BD-Live se conecten a la red.

DLNA

Puede definir la función DLNA (pág. 21) en Permitir/Desactivar. Cuando no utilice la función DLNA, defínala en Desactivar.

Permitir*, Desactivar

Configuración Proxy

Puede definir Configuración Proxy. Defínalo en Desactivar para uso normal. Seleccione Permitir para definir la configuración del proxy.

Permitir Activa los ajustes del host y el puerto proxy.

Desactivar* Desactiva el servidor proxy. Seleccione esta opción cuando no utilice el servidor proxy.

Host Proxy Define el host proxy.

Puerto proxy Define el puerto proxy.

■ Configuración de pantalla

Los ajustes predeterminados están marcados con “* ”.

TV

Pantalla de TV


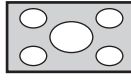
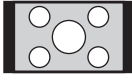
Puede ajustar la relación de aspecto de la pantalla del televisor conectado, y ajustar la salida de vídeo. Si cambia de televisor, por ejemplo, porque ha adquirido uno nuevo, y la relación de aspecto de la pantalla del televisor conectado cambia, también tendrá que cambiar el ajuste Pantalla de TV.

16:9 Lleno Selecciónelo cuando conecte el reproductor a un televisor con pantalla 16:9. Cuando se reproduce vídeo con una relación de aspecto 4:3, el vídeo se muestra como aparece en la ilustración.

16:9 Normal* Selecciónelo cuando conecte el reproductor a un televisor con pantalla 16:9. Cuando se reproduce vídeo con una relación de aspecto 4:3, el vídeo se muestra como aparece en la ilustración.

4:3 Panorámico Selecciónelo cuando conecte el reproductor a un televisor con pantalla 4:3. Cuando se reproduce vídeo con una relación de aspecto 16:9, el vídeo se muestra como aparece en la ilustración.

4:3 Buzón Selecciónelo cuando conecte el reproductor a un televisor con pantalla 4:3. Cuando se reproduce vídeo con una relación de aspecto 16:9, el vídeo se muestra como aparece en la ilustración.

Tamaño de imagen original	En televisor 16:9 (pantalla panorámica)	
	16:9 Lleno	16:9 Normal
 4:3		

Tamaño de imagen original	En televisor 4:3	
	4:3 Panorámico	4:3 Buzón
 16:9		

Resolución

Puede seleccionar la resolución de salida de vídeo entre Auto, 480i/576i, 480p/576p, 720p, 1080i y 1080p. Cuando se define en Auto, la resolución se ajusta a la resolución máxima según el televisor conectado. Para obtener detalles adicionales sobre los formatos de salida, consulte “Acerca de los formatos de salida de vídeo” (pág. 35).

Auto*, 480i/576i, 480p/576p, 720p, 1080i, 1080p

Nota

- Para emitir audio HD (como Dolby TrueHD o DTS-HD Master Audio) desde un terminal HDMI, configure Resolución como Auto o un ajuste superior a 720p.

Sistema de TV

Puede seleccionar el valor de Sistema de TV entre PAL, NTSC y Multi. Ajuste el mismo valor de Sistema de TV que su televisor. Para obtener detalles adicionales sobre los formatos de salida, consulte “Acerca de los formatos de salida de vídeo” (pág. 35).

NTSC*, PAL, (Modelos para Corea, Taiwán y América Central y del Sur)
Multi

NTSC, PAL*, (Modelos para Rusia y Asia)
Multi

Color Space

Puede seleccionar la salida Color Space (pág. 40) desde HDMI. Esta función está disponible cuando el reproductor se conecta con un cable HDMI.

RGB Permite la salida de la señal de vídeo con el rango normal de señal.

YCbCr 4:4:4* Permite definir Color Space en YCbCr 4:4:4.

YCbCr 4:2:2 Permite definir Color Space en YCbCr 4:2:2.

Full RGB Si se ha configurado RGB y el blanco y negro de la pantalla está demasiado difuminado, seleccione este elemento. Esta opción se aplica si un componente conectado admite el intervalo RGB 0-255.

Nota

- Esta función sólo está disponible en televisores que admitan dicha función.

HDMI Deep Color

Si su televisor y/o receptor de A/V es compatible con Deep Color (pág. 40), ajuste este elemento según su televisor o receptor de A/V. Esta función está disponible cuando el reproductor se conecta con un cable HDMI.

30 bits, 36 bits, Desactivar*

HDMI 1080p 24Hz

Permite la salida del Vídeo BD codificado con una velocidad de fotogramas de 24 Hz en HDMI 1080p 24Hz. Con esta función es posible que disponga de una reproducción de vídeo más suave. Esta función está disponible si el receptor de A/V o el televisor admiten esta función y el reproductor está conectado con un cable HDMI. Para obtener detalles adicionales sobre los formatos de salida, consulte “Acerca de los formatos de salida de vídeo” (pág. 35).

Auto*, Desactivar

Nota

- Este parámetro está desactivado cuando la resolución de salida es diferente de 1080p.

Sincronismo de labios

Puede definir o ajustar la función Sincronismo de labios (pág. 41). Para ajustar manualmente Sincronismo de labios, seleccione Manual y pulse ◀/▶ para ajustar la cifra.

Auto*, Manual, Desactivar

Procesamiento de Vídeo

Modo de Vídeo

Puede seleccionar Modo de Vídeo más abajo.

Estándar* La imagen es más natural y equilibrada. Este modo es adecuado para usos normales.

Rico La imagen es más viva e intensa.

Cine La imagen es adecuada para ver películas en una habitación a oscuras.

Particularizado Puede ajustar la imagen visual manualmente. Pulse ▲/▼ para seleccionar el parámetro, a continuación pulse ◀/▶ para ajustar la figura.

Brillo

Ajusta el brillo global de la imagen.

Nitidez

Ajusta la nitidez de los elementos del vídeo.

Tonalidad

Ajusta el tono de la imagen proyectada.

Saturación

Ajusta la riqueza de color de la imagen proyectada.

Contraste

Ajusta las áreas claras (niveles blancos) de la imagen.

CTI

Suaviza los bordes de las imágenes en color. De este modo, las imágenes en color se distinguen más.

Los valores predeterminados son 0.

Ajuste de color

Ajusta Brillo/Saturación/Tonalidad para cada color (Rojo/Verde/Azul/Amarillo/Cian/Magenta). Para utilizar esta función, configure Modo de Vídeo como Particularizado. Para obtener detalles sobre la configuración de elementos, consulte “Modo de Vídeo” (pág. 32).

Los valores predeterminados son 0.

Contraste automático

Ajusta el contraste para optimizar la imagen reproducida.

Desactivar*, Activar

Reducción de ruido

Puede configurar la Reducción de ruido a un nivel entre 0 y 3. 0 equivale a desactivado y 3 es el nivel máximo.

0*, 1, 2, 3

Modo desentrelazado

Puede seleccionar cómo detectar la señal de vídeo. Defínalo en Auto para uso normal. Cuando aparece en la pantalla un ruido de desgarro horizontal, configure esta opción en Película/Vídeo para eliminar el ruido.

Auto*, Película, Vídeo

■ Configuración de audio

Los ajustes predeterminados están marcados con “*”.

Salida de audio

Coaxial/Optica

Puede seleccionar el modo de salida de la toma COAXIAL y del terminal OPTICAL. Para obtener detalles adicionales sobre los formatos de salida, consulte “Formatos de salida de audio” (pág. 34).

Bitstream Permite la salida de la señal digital sin ningún procesamiento. No se produce la salida del audio secundario.

PCM Permite la salida de PCM de 2 canales.

Recodificar* Permite la salida de Bitstream con audio secundario. La salida de la señal de audio se realiza como señal DTS.

Desactivar Silencia el sonido.

HDMI

Puede seleccionar el modo de salida del terminal HDMI. Para obtener detalles sobre la configuración de elementos, consulte “Coaxial/Optica” (pág. 33). Para obtener detalles adicionales sobre los formatos de salida, consulte “Formatos de salida de audio” (pág. 34).

Bitstream*, PCM, Recodificar, Desactivar

Nota

- Para emitir audio HD (como Dolby TrueHD o DTS-HD Master Audio) desde un terminal HDMI, configure Resolución como Auto o un ajuste superior a 720p (pág. 31).

Downsampling

Puede seleccionar la frecuencia de submuestreo de la señal de audio digital. Esta función está activa para la salida de señal de audio desde la toma COAXIAL/terminal OPTICAL.

48k* La tasa de muestreo más alta de la salida PCM digital es 48 kHz.

96k La tasa de muestreo más alta de la salida PCM digital es 96 kHz.

192k La tasa de muestreo más alta de la salida PCM digital es 192 kHz.

DRC

Puede activar, desactivar o poner en modo Auto el DRC (Control de gama dinámica) (pág. 40). Cuando se define en Auto, DRC se enciende automáticamente para una fuente con información DRC en formato Dolby TrueHD. DRC hace que los sonidos fuertes como oclusivos suenen más bajo y que las conversaciones sean más audibles. Resulta útil cuando se ven películas de noche.

Desactivar*, Activar, Auto

Salida SACD

Prioridad SACD

Puede seleccionar un contenido reproducido desde datos multicanal o estéreo (2 canales) si se carga un SA-CD híbrido (pág. 4) o los dos.

Multi-ch*, 2-ch

Salida HDMI

Puede seleccionar la salida de la señal de audio desde el terminal HDMI cuando se reproduce un SA-CD.

DSD* Emite una señal DSD en bruto. Al conectar el reproductor a un receptor A/V compatible con DSD, esta puede resultar una opción útil.

PCM Emite una señal PCM descodificada por este reproductor.

Ajuste de altavoz

Configuración

Puede definir la salida de sonido envolvente de 7.1 canales dependiendo del altavoz o amplificador conectado.

1 Pulse ▲/▼ para seleccionar el altavoz que desea configurar y, a continuación pulse **ENTER**.

2 Ajuste las cifras siguientes. En función del altavoz seleccionado algunos elementos no aparecen.

Tamaño Cuando la parte del altavoz de graves del altavoz mide 16 cm o más, seleccione Grande. Si es inferior a 16 cm, seleccione Pequeño.

Grande*, Pequeño

Trim -12 a 0 dB (en pasos de 0,5 dB)

La configuración predeterminada es 0 dB.

Retraso 0,5 a 10 m (en pasos de 0,5 m)

La configuración predeterminada es 3 m.

Desactivar Cuando el altavoz seleccionado no se utiliza, seleccione Sí.

Sí, No*

3 Pulse **RETURN** para volver a la selección del altavoz.

Mezcla descendente 2 Canales

Puede seleccionar 2 canales analógico como método de mezcla descendente desde Estéreo o Lt/Rt.

Estéreo* Cambia la salida del canal a estéreo, con lo que solamente se emite sonido desde los dos altavoces frontales.

Lt/Rt Seleccione este elemento si la unidad está conectada a un descodificador Dolby Pro Logic. El sonido de los altavoces posteriores se mezcla con el sonido estéreo de 2 canales.

Post-procesamiento

Permite convertir la señal de audio de 2 canales en multicanal. Para realizar esta conversión, seleccione NEO6, y seleccione el modo Cinema o Music.

Desactivar*, NEO6

■ Sistema de Información

Se muestran la versión de software y la dirección MAC (pág. 41).

■ Formatos de salida de audio

Formato de origen		HDMI			COAXIAL/OPTICAL			MIXED 2CH/ Sonido envolvente de 7.1 canales
		Bitstream	PCM	Recodificar	Bitstream	PCM	Recodificar	
PCM 2 canales		PCM 2 canales			PCM 2 canales			2 canales
PCM 5.1 canales		PCM 5.1 canales			PCM 2 canales			2 canales/ 5.1 canales
PCM 7.1 canales		PCM 7.1 canales			PCM 2 canales			2 canales/ 7.1 canales
Dolby Digital	con AS* o SCB**	Dolby Digital	PCM 5.1 canales	Dolby Digital	Dolby Digital	PCM 2 canales	Dolby Digital	2 canales/ 5.1 canales
Dolby Digital Plus	con AS* o SCB**	Dolby Digital Plus	PCM hasta 7.1 canales	Dolby Digital Plus Dolby Digital	Dolby Digital	PCM 2 canales	Dolby Digital	2 canales/ 7.1 canales
Dolby TrueHD	con AS* o SCB**	Dolby TrueHD	PCM hasta 7.1 canales	Dolby TrueHD Dolby Digital	Dolby Digital	PCM 2 canales	Dolby Digital	
DTS	con AS* o SCB**	DTS	PCM hasta 5.1 canales	DTS	DTS	PCM 2 canales	DTS	2 canales/ 5.1 canales
DTS HD High Resolution	con AS* o SCB**	DTS HD High Resolution	PCM hasta 7.1 canales	DTS HD High Resolution DTS	DTS	PCM 2 canales	DTS	2 canales/ 7.1 canales
DTS-HD Master Audio	con AS* o SCB**	DTS-HD Master Audio	PCM hasta 7.1 canales	DTS-HD Master Audio DTS	DTS	PCM 2 canales	DTS	

* "AS" es audio secundario.

** "SCB" es el sonido clic del botón, el efecto de sonido de los menús emergentes, etc.

■ Formatos de salida SA-CD

Ajustes de salida SACD		HDMI	COAXIAL/OPTICAL	MIXED 2CH/7.1 canales sonido envolvente
Prioridad SACD	Salida HDMI			
Multi-ch	DSD	DSD hasta 5.1 canales	Sin salida	2 canales/5.1 canales
	PCM	PCM hasta 5.1 canales	Sin salida	2 canales/5.1 canales
2-ch	DSD	DSD 2 canales	Sin salida	2 canales/2 canales
	PCM	PCM 2 canales	Sin salida	2 canales/2 canales

Notas

- Si Coaxial/Optica o HDMI se define en Bitstream, no se produce la salida de audio secundario. (pág. 33)
- Para emitir audio HD (como Dolby TrueHD o DTS-HD Master Audio) desde un terminal HDMI, configure Resolución como Auto o un ajuste superior a 720p (pág. 31).
- Para la reproducción de SA-CD, la configuración de Ajuste del altavoz (pág. 33) solamente tiene efecto si Salida HDMI está ajustada en PCM.

■ Acerca de los formatos de salida de vídeo

Si Sistema de TV se define en NTSC

	Resolución	Auto	480i/576i	480p/576p	720p	1080i	1080p	
	HDMI 1080p 24Hz	—	—	—	—	—	Activar	Desactivar
HDMI	Reproducción de BD	Máx.	480i	480p	720p 60 Hz	1080i 60 Hz	1080p 24 Hz	1080p 60 Hz
	otros						1080p 60 Hz	
COMPONENT	Reproducción de DVD comercial	480i	480i	480p	480p	480p	480p	
	Reproducción de BD				720p 60 Hz	1080i 60 Hz	desactivado	1080i 60 Hz
	otros				1080i 60 Hz			
VIDEO	Reproducción de BD	480i	480i	480i	480i	480i	desactivado	480i
	otros						480i	

4

AJUSTES

Si Sistema de TV se define en PAL

	Resolución	Auto	480i/576i	480p/576p	720p	1080i	1080p	
	HDMI 1080p 24Hz	—	—	—	—	—	Activar	Desactivar
HDMI	Reproducción de BD	Máx.	576i	576p	720p 50 Hz	1080i 50 Hz	1080p 24 Hz	1080p 50 Hz
	otros						1080p 50 Hz	
COMPONENT	Reproducción de DVD comercial	576i	576i	576p	576p	576p	576p	
	Reproducción de BD						desactivado	576p
	otros						576p	
VIDEO	Reproducción de BD	576i	576i	576i	576i	576i	desactivado	576i
	otros						576i	

Si Sistema de TV se define en Multi

Si Sistema de TV está configurado como Multi, la salida de la señal de vídeo tiene la misma frecuencia que la fuente. Consulte las tablas anteriores para obtener información sobre la configuración de frecuencia del televisor y la resolución de la señal de vídeo de salida.

Si se muestra una pantalla de menú como, por ejemplo, SETUP la salida de la señal de vídeo tiene la misma frecuencia que el origen.

Notas

- “Máx.” en la tabla significa que la resolución se ha definido en la resolución máxima admitida por el televisor conectado.
- El parámetro HDMI 1080p 24Hz está desactivado cuando la resolución de salida es diferente de 1080p.
- Cuando el parámetro HDMI 1080p 24Hz está activado, se realiza la salida de la señal de vídeo desde HDMI durante la reproducción de BD.
- Cuando se reproduce un DVD comercial con salida de componente, la resolución máxima es 480p/576p.
- Cuando Sistema de TV se define en NTSC y el origen de vídeo no es 60 Hz, la salida de vídeo se convierte a 60 Hz.
- Cuando Sistema de TV se define en PAL y el origen de vídeo no es 50 Hz, la salida de vídeo se convierte a 50 Hz.

ACTUALIZACIÓN DE SOFTWARE

Algunos de los discos BD recién lanzados no se pueden reproducir a menos que actualice el software del reproductor a la versión más reciente. Le recomendamos la actualización para que el reproductor funcione con el software más actual.

Para comprobar la disponibilidad de una actualización de software, visite

<http://download.yamaha.com/downloads/service/top/?site=europe.yamaha.com&language=en>

Consejo

- La actualización del software se inicia automáticamente tras cargar el disco que contiene el paquete de actualización.

Notas

- No saque el disco/dispositivo de memoria USB, no ponga el reproductor en modo de espera ni desenchufe el cable de alimentación o el cable LAN mientras se lleva a cabo la actualización de software.

■ Actualización del software

1. Prepare la actualización de software.

Si actualiza el software desde Disc/USB Storage:

- ① Guarde el paquete de archivos de actualización en la carpeta correspondiente en el disco/dispositivo de memoria USB. Para más información, consulte el documento de procedimientos adjunto con el paquete de archivos de actualización.

- ② Cargue el disco o conecte el dispositivo de memoria USB.

Al cargar el disco, la actualización de software se inicia automáticamente. Omita el paso 2.

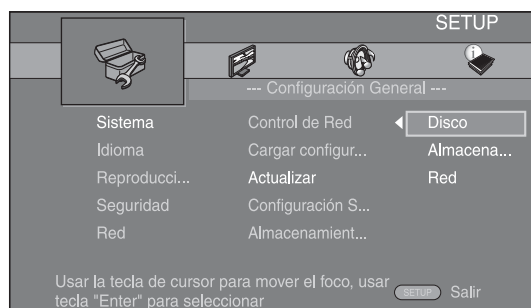
Si actualiza el software desde Network:

Confirme que el reproductor está conectado a la red.

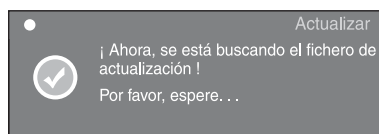
2. Seleccione el método de actualización e inicie la actualización desde el menú SETUP.

- ① Pulse **SETUP** para mostrar la pantalla de menú SETUP.
- ② Seleccione Configuración General → Sistema → Actualizar.

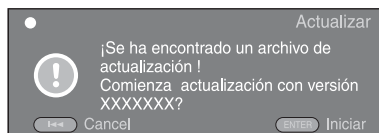
- ③ Seleccione el elemento que contiene el paquete de archivos de actualización desde Disc/USB Storage/Network.



3. El sistema buscará el paquete de archivos de actualización.



4. Pulse ENTER para iniciar la actualización.



5. La actualización se ha completado. El sistema se reiniciará.

RESOLUCIÓN DE PROBLEMAS

Consulte la tabla inferior cuando el equipo no funcione correctamente. Si el problema que usted tiene no aparece en la lista inferior o las instrucciones no le sirven de ayuda, apague este reproductor, desenchufe el cable de alimentación y póngase en contacto con un centro de servicio o concesionario Yamaha autorizado.

■ Alimentación

Problema	Causas posibles y soluciones
No hay alimentación.	<ul style="list-style-type: none"> – Conecte correctamente el cable de alimentación de CA. – Pulse (⏻) en el panel delantero para encender la alimentación.
La alimentación del reproductor está apagada.	<ul style="list-style-type: none"> – La alimentación se desconectará automáticamente pasados 10 minutos continuos de inactividad (sin reproducción).

■ Funcionamiento básico

Problema	Causas posibles y soluciones
El mando a distancia no funciona.	<ul style="list-style-type: none"> – Utilice el mando a distancia dentro de su alcance operativo. (pág. 5) – Cambie las pilas. (pág. 5) – Compruebe la configuración de ID de la unidad principal y el mando a distancia. (pág. 9)
Las teclas no funcionan.	<ul style="list-style-type: none"> – Mantenga pulsado ⏻ en el panel delantero durante unos 5 segundos para reiniciar el reproductor. – Para reiniciar completamente el reproductor, desenchufe el cable de alimentación de la toma de CA durante 5 – 10 segundos, vuelva a enchufarlo y, a continuación, encienda el reproductor.
Se ha olvidado la contraseña.	<ul style="list-style-type: none"> – Mantenga pulsado ■■ y ■■ en el panel delantero a la vez si no hay ningún disco insertado y con la reproducción detenida para situar el reproductor en la configuración predeterminada (el ajuste de Seguridad (pág. 30) también se restablece).

■ Reproducción de disco

Problema	Causas posibles y soluciones
El reproductor no puede reproducir un disco.	<ul style="list-style-type: none"> – Extraiga el disco y límpielo. (pág. 4) – Asegúrese de que se ha cargado correctamente el disco (alineado en la bandeja portadiscos y con la cara de la etiqueta hacia arriba). (pág. 4) – Utilice un disco admitido por el reproductor. (pág. 3) – Extraiga el disco y compruebe si es un disco admitido por el reproductor o no. (pág. 3) – Compruebe el código de región. (pág. 3) – Compruebe si el disco está defectuoso probando con otro disco. – Los discos CD-R/RW, DVD+R/RW/R DL y DVD-R/RW/R DL deben estar finalizados. (pág. 3)
El vídeo se para.	<ul style="list-style-type: none"> – El reproductor se parará si detecta golpes o vibraciones.
El reproductor hace un sonido de chasquido cuando comienza la reproducción o al cargar un disco.	<ul style="list-style-type: none"> – Estos sonidos no son averías sino condiciones normales de funcionamiento del reproductor.

■ Imagen

Problema	Causas posibles y soluciones
No hay imagen.	<ul style="list-style-type: none"> - Asegúrese de que los cables están correctamente conectados. (pág. 10) - Asegúrese de que el televisor o receptor de A/V conectado está ajustado a la entrada correcta. (pág. 10) - Conecte el reproductor al televisor con la toma VIDEO (pág. 13) mediante el cable de clavijas de vídeo suministrado y definiendo correctamente la Resolución. (pág. 31) - El sistema de TV está mal ajustado. Mantenga pulsado DIMMER en el mando a distancia para restablecer la configuración predeterminada del sistema de TV.
La pantalla se congela y las teclas de operación no responden.	<ul style="list-style-type: none"> - Pulse ■ y, después, reinicie la reproducción. - Desconecte la alimentación y conéctela de nuevo. - Mantenga pulsado ⏻ en el panel delantero durante unos 5 segundos para reiniciar el reproductor.
La salida de vídeo no tiene la resolución deseada.	<ul style="list-style-type: none"> - Ajuste la resolución deseada. (pág. 31)
El vídeo de ancho horizontal aparece estirado verticalmente, o aparecen bandas negras en las partes superior e inferior de la pantalla. O el vídeo 4:3 aparece estirado horizontalmente.	<ul style="list-style-type: none"> - Cambie la relación de aspecto del televisor. (pág. 31)
Aparece ruido cuadrado (mosaicos) en la pantalla.	<ul style="list-style-type: none"> - Se podrían ver bloques en las imágenes en escenas que contengan movimientos rápidos debido a las características de la tecnología de compresión de imagen digital.
La pantalla de reproducción se perturbará si se graba vídeo DVD en una videograbadora, o se reproduce a través de una videograbadora.	<ul style="list-style-type: none"> - Este reproductor cumple con la protección contra copias analógicas. Algunos discos contienen una señal de prohibición de copia. Si intenta reproducir tales discos a través de una videograbadora, o grabar a una videograbadora y reproducir la señal, la protección contra copia impedirá la reproducción normal.
No hay salida de audio o las imágenes no se reproducen adecuadamente.	<ul style="list-style-type: none"> - En algunos discos en los que se ha grabado contenido protegido por derechos de autor es posible que no haya salida de audio o que las imágenes no se reproduzcan adecuadamente.

■ Sonido

Problema	Causas posibles y soluciones
No hay sonido o está distorsionado.	<ul style="list-style-type: none"> - Suba el volumen. - No hay sonido durante el modo de reproducción fija, cámara lenta, avance rápido y retroceso rápido. (pág. 7) - Compruebe que el cable de audio está correctamente conectado. (pág. 10) - El audio puede no salir dependiendo del estado de grabación del audio, por ejemplo, cuando se haya grabado como contenido de audio, audio que no sea una señal de audio o audio no estándar. (pág. 3)
Los canales de audio izquierdo y derecho están invertidos o el sonido sólo sale por uno de ellos.	<ul style="list-style-type: none"> - Compruebe la conexión de audio. (pág. 10)
No hay salida de audio o las imágenes no se reproducen adecuadamente.	<ul style="list-style-type: none"> - En algunos discos en los que se ha grabado contenido protegido por derechos de autor es posible que no haya salida de audio o que las imágenes no se reproduzcan adecuadamente.
No se puede escuchar el tipo de audio que se desea y/o el número de canales.	<ul style="list-style-type: none"> - Consulte el ajuste Salida de audio y "Formatos de salida de audio". (pág. 33, 34)
No se escucha el sonido de PIP (audio secundario).	<ul style="list-style-type: none"> - Ajuste Coaxial/Optica o HDMI en PCM/Recodificar. (pág. 33) - Para escuchar el audio secundario, pulse 2ND AUDIO. (pág. 6) - Dependiendo del disco, es posible que tenga que activar el audio secundario en el menú principal del disco. (pág. 7)

■ Red

Problema	Causas posibles y soluciones
No se puede conectar a Internet.	<ul style="list-style-type: none"> - Conecte correctamente el cable de red. - Encienda el equipo conectado como, por ejemplo, un módem o enrutador de banda ancha. - Conecte correctamente el módem y/o el enrutador de banda ancha. - Configure correctamente el valor o valores de la red. Compruebe "Red". (pág. 31)
No se pueden descargar contenidos BD-Live.	<ul style="list-style-type: none"> - Conecte correctamente el cable de red. (pág. 16) - Conecte el dispositivo de memoria USB correctamente. Compruebe que el dispositivo de memoria USB está conectado al puerto USB del reproductor. (pág. 16) - Compruebe si el disco BD admite BD-Live. - Compruebe el ajuste de "Conexión a Internet". (pág. 31) - Conecte el dispositivo de memoria USB formateado en FAT16 o FAT32. - Se recomienda conectar el dispositivo de memoria USB con al menos 2 GB de espacio libre. Si no hay suficiente espacio libre, formatee el dispositivo de memoria USB. (pág. 29)
No se puede detectar el servidor DLNA.	<ul style="list-style-type: none"> - Conecte correctamente el cable de red. - Encienda el equipo conectado como, por ejemplo un enrutador de banda ancha o el servidor. - Asegúrese de que el reproductor y el servidor están conectados al mismo punto de acceso. - Configure correctamente el valor o valores de la red. Compruebe "Red". (pág. 31) - Dependiendo del servidor DLNA, es posible que sea necesario autorizar al reproductor desde el servidor.
No se puede reproducir el archivo en el servidor doméstico de red.	<ul style="list-style-type: none"> - Asegúrese de que el archivo se puede reproducir. (pág. 3) - Compruebe la configuración del servidor DLNA. - La calidad de funcionamiento y reproducción podría verse afectada por las condiciones de la red doméstica.

■ Mensajes en pantalla

- Los mensajes siguientes aparecerán en la pantalla del televisor si el disco que intenta reproducir no es apropiado o la operación no es correcta.

Mensaje de error	Causas posibles y soluciones
Not Support This File!	- El reproductor no admite el archivo. Consulte "Tipos de discos/archivos que se pueden utilizar con este reproductor" (pág. 3).
¡Código de región erróneo!	- El disco tiene un código de región incompatible. Consulte "Información de gestión de la región" (pág. 3).
La red ha fallado.	- El reproductor no se puede conectar a la red. Compruebe la conexión (pág. 16) y los valores de la red (pág. 31).
Red está bien, proxy ha fallado.	- El reproductor no se puede conectar al servidor proxy. Consulte "Configuración Proxy" (pág. 31).
The Setting is prohibited, please setup again.	- La conexión de BD-Live está prohibida. Consulte "Conexión BD-Live" (pág. 31).
¡No se encuentra un fichero válido para actualización!	- Compruebe si el archivo de actualización está en la carpeta apropiada.
¡La actualización ha fallado por alguna razón!	- La actualización ha fallado. Compruebe si el archivo de actualización está dañado o es ilegible.

GLOSARIO

AVCHD

AVCHD es un nuevo formato (estándar) para cámaras de vídeo de alta definición que se puede utilizar para grabar y reproducir imágenes de alta definición (HD).

BD-Live

BD-Live es un estándar de BD que utiliza una conexión de red y permite al reproductor conectarse a la red para descargar vídeos promocionales y otros datos.

BDMV

BDMV (Blu-ray Disc Movie, BD-MV=Películas en disco Blu-ray BD-MV) se refiere a uno de los formatos de aplicación utilizados para BD-ROM que constituye una de las especificaciones de los discos Blu-ray.

BDMV es un formato de grabación equivalente al Vídeo DVD de la especificación DVD.

BONUSVIEW

Los discos compatibles con BONUSVIEW le permiten disfrutar simultáneamente de subcanal de vídeo para dos pantallas, subcanal de audio y subtítulos. Aparece una pequeña pantalla dentro de la pantalla principal durante la reproducción (Imagen en imagen).

Buzón (LB 4:3)

Un tamaño de pantalla con barras negras en las partes superior e inferior de la imagen para permitir la visualización de material en pantalla ancha (16:9) en un televisor 4:3 conectado.

Color Space

El Color Space es una gama de colores que se puede representar. RGB es un espacio de color basado en el modelo de color RGB (rojo, verde y azul) y se utiliza normalmente para monitores de PC. YCbCr es un espacio de color basado en una señal de luminancia (Y) y dos señales de diferencia de color (Cb y Cr).

Deep Color

Deep Color se refiere al uso de diversas profundidades de color en pantallas, a partir de las profundidades de 24 bits de versiones anteriores de la especificación HDMI. Esta profundidad de bits adicional permite que las pantallas HDTV y otros tipos de pantallas pasen de millones a miles de millones de colores y eliminan la aparición de bandas de color en pantallas permitiendo unas transiciones tonales suaves y una gradación ligera entre colores. La mayor relación de contraste permite representar muchos más tonos de gris entre blanco y negro. Además Deep Color aumenta el número de colores disponibles dentro de los límites definidos por el espacio de color RGB o YCbCr.

Dirección MAC

La dirección MAC es un valor único asignado a un dispositivo de red para fines identificativos.

DivX®

DivX® es una tecnología multimedia popular creada por DivX, Inc. Los archivos multimedia DivX® contienen vídeo muy comprimido con una alta calidad visual que mantiene un tamaño de archivo relativamente pequeño. Los archivos DivX® también pueden incluir características multimedia avanzadas como menús, subtítulos y pistas de audio alternativas. Muchos archivos multimedia DivX® están disponibles para descarga en línea y puede crear sus propios archivos utilizando su propio contenido y herramientas fáciles de utilizar de DivX.com.

Dolby Digital

Un sistema de sonido desarrollado por Dolby Laboratories Inc. que da un ambiente de sala de cine a la salida de audio cuando el producto está conectado con un amplificador o procesador Dolby Digital.

Dolby Digital Plus

Un sistema de sonido desarrollado como una extensión de Dolby Digital. Esta tecnología de codificación de audio soporta sonido envolvente de 7.1 multicanales.

Dolby TrueHD

Dolby TrueHD es una tecnología de codificación sin pérdidas que soporta hasta 8 canales de sonido envolvente multicanal para los discos ópticos de próxima generación. El sonido reproducido conserva fielmente, bit a bit, la fuente original.

DRC (Control de gama dinámica)

DRC le permite ajustar la gama entre los sonidos más alto y más bajo (gama dinámica) para reproducir a un volumen intermedio. Utilícela cuando sea difícil escuchar los diálogos o durante las horas en que la reproducción pueda molestar a los vecinos.

DSD (Direct Stream Digital)

La tecnología DSD guarda señales de vídeo en soportes de almacenamiento digitales, como Super Audio CD. Mediante DSD, las señales se guardan como valores de un solo bit en frecuencias de muestreo altas, de 2,8224 MHz, mientras que el modelado del ruido y el sobremuestreo se utilizan para reducir la distorsión, un fenómeno habitual en situaciones de alta cuantificación de señales de audio. Debido a la elevada frecuencia de muestreo, es posible obtener una calidad de audio superior a la que ofrece el formato PCM utilizado para CD de audio normales.

DTS

Un sistema de sonido digital desarrollado por DTS, Inc. para su uso en salas de cine.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio es una nueva tecnología desarrollada para el formato de disco óptico de alta definición de próxima generación.

DTS-HD Master Audio

DTS-HD Master Audio es una tecnología de compresión de audio sin pérdidas desarrollada para el formato de disco óptico de alta definición de próxima generación.

DTS-HD Master Audio | Essential

DTS-HD Master Audio | Essential es una tecnología de compresión de audio sin pérdidas desarrollada para el formato de disco óptico de alta definición de próxima generación.

HDMI

HDMI (High-Definition Multimedia Interface, Interfaz Multimedia de Alta Definición) es una interfaz que soporta vídeo y audio en una sola conexión digital. La conexión HDMI lleva señales de vídeo, lo mismo estándar que de alta definición, y señales de audio en multicanal a componentes A/V, por ejemplo, televisores equipados con HDMI en forma digital y sin degradación.

Sonido PCM lineal

PCM lineal es un formato de grabación de señales utilizado para CD de audio y en algunos discos DVD y Blu-ray. El sonido de CD de audio se graba a 44,1 kHz con 16 bits. (El sonido se graba entre 48 kHz con 16 bits y 96 kHz con 24 bits en discos DVD y entre 48 kHz con 16 bits y 192 kHz con 24 bits en discos BD.)

Sincronismo de labios

Sincronismo de labios, una abreviatura de “lip synchronization”, o sincronización de labios, es un término que hace referencia tanto a un problema habitual como a la posibilidad de mantener sincronizadas las señales de audio y vídeo durante la posproducción y la transmisión. La latencia de audio y vídeo requiere complejos ajustes por parte del usuario, pero la versión 1.3 de HDMI incorpora una función de sincronización automática de audio y vídeo que permite a los dispositivos sincronizarse de forma automática y precisa y sin la intervención del usuario.

Panorámico (PS 4:3)

Un tamaño de pantalla que recorta los costados de la imagen para permitir la visualización de material de pantalla ancha (16:9) en un televisor 4:3 conectado.

Subtítulos

Son las líneas de texto que aparecen en la parte inferior de la pantalla y que traducen o transcriben el diálogo. Están grabadas en muchos discos de vídeo DVD y BD.

Subtítulos

La audiodescripción es un tipo de subtítulos, la diferencia entre los subtítulos y la audiodescripción es que los primeros están diseñados para personas sin problemas auditivos, mientras que los segundos lo están para personas que no oyen. Los subtítulos no suelen mostrar todo el audio. La audiodescripción muestra efectos de sonido (por ejemplo, un “sueno el teléfono” y “ruido de pasos”), mientras que los subtítulos no lo hacen. Antes de seleccionar este ajuste, asegúrese de que el disco contiene información de audiodescripción.

Menú principal

En un Vídeo BD/Vídeo DVD es el menú para seleccionar elementos tales como el capítulo que se va a reproducir y el idioma de los subtítulos. En algunos vídeos DVD, al menú principal también se le denomina “Menú de títulos”.

x.v.Color

x.v.Color reproduce una gama de colores más amplia que antes, mostrando casi todos los colores que puede detectar el ojo humano.

ESPECIFICACIONES

■ Generalidades

Alimentación

[Modelos para América Central y del Sur]	110 – 240 V CA, 50/60 Hz
[Modelos para Europa y Rusia].....	CA 230 V, 50 Hz
[Modelo para Asia]	CA 220 – 240 V, 50/60 Hz
[Modelo para Taiwán].....	CA 110 – 120 V, 50/60 Hz
[Modelo para Corea]	CA 220 V, 60 Hz
Consumo de energía (normal).....	25 W
Consumo (en espera).....	0,5 W
Dimensiones (Ancho × Alto × Largo)	435 × 96 × 316 mm
Peso	4,05 kg

■ Rendimiento de audio



Nivel de salida de audio (1 kHz, 0 dB, BD/DVD/CD-DA)	2 ± 0,3 V
Relación señal/ruido (BD/DVD/CD-DA)	115 dB o más
Rango dinámico	
BD/DVD	105 dB o más
CD-DA	100 dB o más
Distorsión armónica (1 kHz)	
BD/DVD	0,0028% o menos
CD-DA	0,003 % o menos
Respuesta de frecuencia	
BD/DVD	2 Hz a 22 kHz (muestreo a 48 kHz)
	2 Hz a 44 kHz (muestreo a 96 kHz)
CD-DA	2 Hz a 20 kHz

■ Entrada/salida

Salida HDMI	Conector tipo A × 1
	480i/576i/480p/576p/720p/1080i/1080p/1080p@24Hz, Soporte Deep Color, x.v. Color
Salida de vídeo componente.....	Y: 1 Vp-p (75 ohmios) Pb, Pr: 0,7 Vp-p (75 ohmios)
Salida de vídeo	1 Vp-p (75 ohmios)
Salida digital.....	Óptica × 1, Coaxial × 1
Salida de audio analógica.....	7.1 canales × 1 Mixed 2 canales × 1
Conectores USB	Tipo A × 2
Otros equipos de salida	Remote IN/OUT × 1 RS-232C × 1 (instalación personalizada), Ethernet × 1

Las especificaciones están sujetas a cambio sin previo aviso.

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■ About Linux, Busybox, SquashFS, LIRC, U-boot

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■ About glibc, libmtp, libusb, libusb-compat, DirectFB

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■ About Fusion

DirectFB Fusion kernel module: introduction and API

by Niels Roest

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The Independent JPEG Group's JPEG software

README for release 7 of 27-Jun-2009

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
ACKNOWLEDGMENTS	Special thanks.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt	How to configure and install the IJG software.
usage.txt	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.txt).
wizard.txt	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.txt	Overview of the JPEG library's internal structure.
filelist.txt	Road map of IJG files.
codersules.txt	Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.iijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83. The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available at <http://www.iijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.iijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.iijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.iijg.org/files/jpegsrc.v7.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.iijg.org/files/jpegsrc7.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu:ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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ACKNOWLEDGMENTS

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Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

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Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS

The ISO JPEG standards committee actually promotes different formats like JPEG-2000 or JPEG-XR which are incompatible with original DCT-based JPEG and which are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES). We have little or no sympathy for the promotion of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

v7 is basically just a necessary interim release, paving the way for a major breakthrough in image coding technology with the next v8 package which is scheduled for release in the year 2010.

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

■ About International Components for Unicode

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```
printf("%s",png_get_copyright(NULL));
```

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
February 14, 2009

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