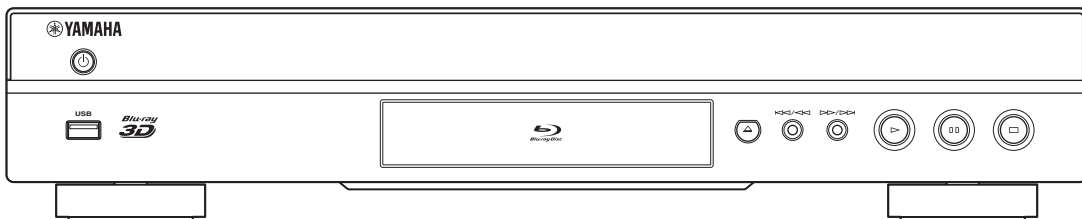





Blu-ray Disc Player

BD-S673


Owner's Manual



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 sound system 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)
Side: 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.

Do not use this unit within 22 cm (9 inches) of persons with a heart pacemaker implant or defibrillator implant.

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.

Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your jack outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed to avoid a possible shock hazard should it be inserted into a 13 Amp jack elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or e) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

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(at the end of this manual)

Information about softwarei

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■ 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. For details on playable discs and formats, see page 3.

BD : BD-Video

DVD : DVD-Video, DVD-VR, DVD+VR

CD : Audio CD

VIDEO : Video files

MUSIC : Audio files

PHOTO : Photo files

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 Blu-ray Disc™/Blu-ray 3D™/DVD/CD discs* → p. 24

In addition to Blu-ray Discs, this Player also supports playback of a variety of other discs.

Play back BONUSVIEW™, BD-Live™, etc.* → p. 27

You can enjoy additional movies on the latest Blu-ray Discs.

Play back Video, Music, Photo files on a disc/USB memory device* → p. 18

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. 20

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. 31

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

Streaming Playback contents on the Network Services** → p. 21

You can instantly enjoy videos over the internet with this Player.

* For details on playable discs and formats, see page 3.

** Network setting is needed to use this function.

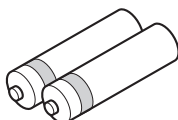
Supplied parts

Make sure the following accessories are provided with the product.

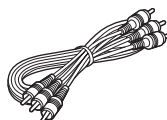
Remote control



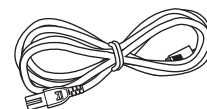
Batteries (x2)
(AAA, R03, UM-4)



Audio/Video 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.

Media Type	Recording Format
BD-ROM/BD-R/ BD-RE	BD-Video/Data files
DVD-ROM	DVD-Video
DVD-R/DVD-R DL/DVD-RW	DVD-Video/DVD-VR/AVCHD/Data files
DVD+R/DVD+R DL/DVD+RW	DVD-Video/DVD+VR/AVCHD/Data files
CD-ROM	CDDA/HDCD
CD-R/CD-RW	CDDA/Data files
USB*	Data files
DLNA	Data files

* This Player is compatible with a USB memory device formatted with FAT 16/32 and NTFS.



Playable audio file formats MUSIC	Playable video file formats VIDEO	Playable photo file formats PHOTO
MP3 (.mp3) WMA (.wma) AAC (.aac/.m4a) WAV (.wav) FLAC (.flac)	DivX (.divx) MKV with DivX format (.mkv) MKV with H.264 (.mkv) MPEG PS (.mpeg/.mpg) MPEG TS (.ts) MPEG-4 (.mp4) VOB (.vob) AVI (.avi) ASF (.asf) WMV (.wmv)	JPEG (.jpeg/.jpg) GIF (.gif) PNG (.png)

Notes

- Playback of a file listed in the chart above is not guaranteed depending on methods of file creation or codecs used.
- A copyright protected file cannot be played back.
- When using DLNA, a file needs to meet the DLNA sever requirement.

Region management information for Blu-ray Disc/DVD videos

- Blu-ray Disc/DVD video players and discs have region codes, which dictate the regions in which a disc can be played. Verify the region code mark on the rear panel of this Player.
- For a Blu-ray Disc, the disc can be played back on this Player with the same region code mark, or the region code “ABC” mark.
- For a DVD disc, the disc can be played back on this Player with the same region code mark, or the region code “ALL” mark.

Examples of region codes	
BD-Video	DVD-Video
Region code “A” or “ABC” 	Region code “1” or “ALL” 

Notes

- Blu-ray Disc/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.
- Playback for some of the discs 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. Only finalized discs can be played back in 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.

Audio file requirement

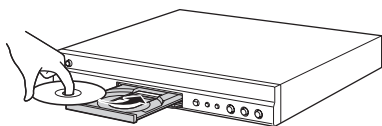
- Sampling frequency: within 32 - 48 kHz (MP3/WMA), LPCM 44.1 kHz/16 bit/Stereo (WAV), 192 kHz/24 bit (FLAC)
- Bitrate: within 8 - 320 kbps (MP3), 32 - 192 kbps (WMA)

WMV file requirement

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

■ Loading a disc

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



Notes

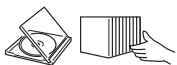



- Playback may begin automatically, depending on the disc and setting of this Player.
- The menu may be displayed first, depending on the disc.
- The disc load time may vary depending on the disc.

■ Disc precautions

Be careful of scratches and dust

- Blu-ray Disc, 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.

■ Notice for watching 3D video images

- Some people may experience discomfort (such as eye strain, fatigue, or nausea) while watching 3D video images. We recommend that all viewers take regular breaks while watching 3D video images.
- If you experience any discomfort, stop watching the 3D video images until the discomfort subsides. Consult a doctor if you experience severe discomfort.
- Read the owner's manuals (Blu-ray Disc and TV) and/or the caution messages that appear on the TV carefully.
- The vision of young children (especially those under six years old) is still under development. Consult your doctor (such as a pediatrician or eye doctor) before allowing young children to watch 3D video images.
- Adults should supervise young children to ensure they follow the recommendations described above.

■ Cinavia technology

- Cinavia technology is a part of the content protection system included in your Blu-ray Disc Player.

Note

- The following messages may be displayed and playback stopped or audio outputs temporarily muted by your Blu-ray Disc player if you are playing an unauthorized copy of content that is protected by Cinavia technology.

These messages are displayed in English only.

Playback stopped. The content being played is protected by Cinavia™ and is not authorized for playback on this device.

For more information, see <http://www.cinavia.com>. Message Code 1.

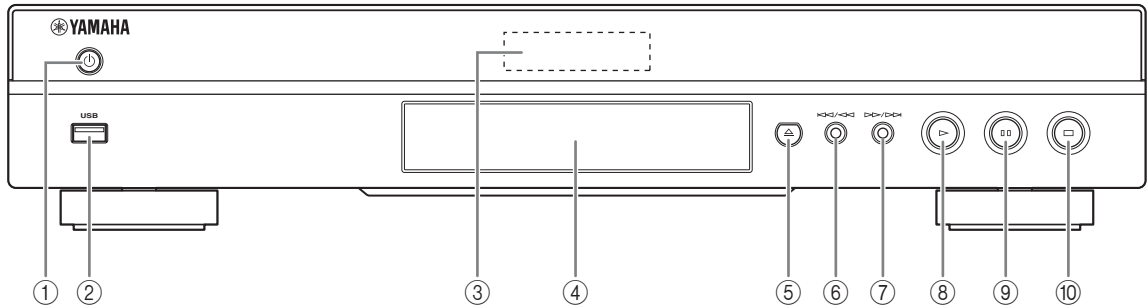
Audio outputs temporarily muted. Do not adjust the playback volume. The content being played is protected by Cinavia™ and is not authorized for playback on this device.

For more information, see <http://www.cinavia.com>. Message Code 3.

Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted. More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

■ Front panel




- ① **⏻ (On/Standby)**
Turns this Player on/Sets to standby mode.
Press and hold ⏻ on the front panel for more than 5 seconds, and release to reset this Player (system reset).
- ② **USB connector (p. 16)**
- ③ **Front panel display**
Displays various information for operational status.
- ④ **Disc tray door**
- ⑤ **⏏ (Eject)**
Opens/Closes the disc tray.
- ⑥ **⏮/⏪ (Search backward/Skip backward):**
Press to skip backward, and press and hold to search backward.
- ⑦ **⏩/⏭ (Search forward/Skip forward):**
Press to skip forward, and press and hold to search forward.
- ⑧ **▶ (Play)**
Starts a playback.
- ⑨ **⏸ (Pause)**
Pauses a playback.
- ⑩ **■ (Stop)**
Stops a playback.

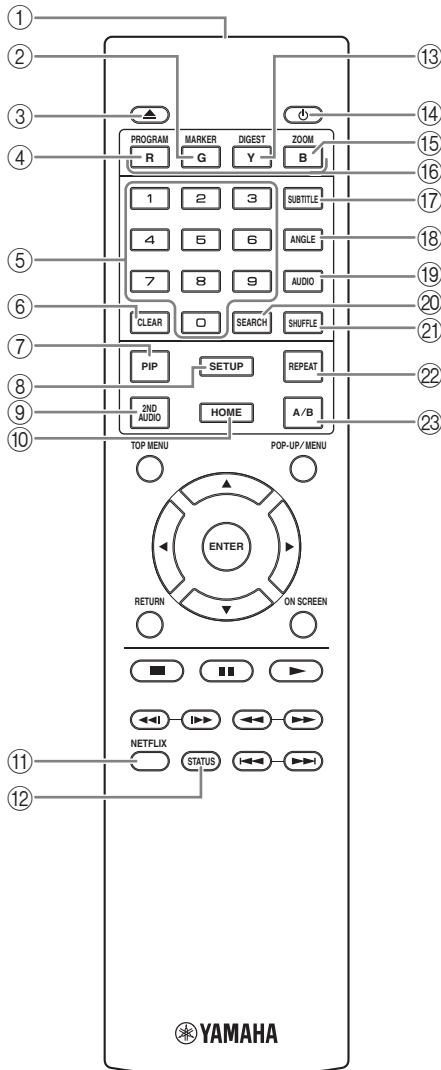
Note





- A factory-fitted protective film covers the front panel of this Player. Remove the protective film from the Player before operating it.


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. 9).
 - ② **MARKER DVD VIDEO:** Sets Bookmark (p. 26) 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. 26). You can set up to 15 tracks (for an audio disc) or titles/chapters (DVD-Video).
 - ⑤ **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.
 - ⑥ **CLEAR:** Clears entered number/set item.
 - ⑦ **PIP BD:** Turns on/off the Picture in Picture (p. 27). PIP Mark () is displayed on the screen when this function is available. You can also select this item from On Screen menu (p. 24).
- Note**
- PIP Mark is displayed only when the PIP Mark is set to on (p. 32).
- ⑧ **SETUP:** Displays SETUP menu screen (p. 28).
 - ⑨ **2ND AUDIO BD:** Selects the secondary audio of the Picture in Picture (p. 27) or audio commentaries. The Secondary Audio Mark () is displayed on the screen when this function is available (p. 35). You can also select this item from On Screen menu (p. 24).
- Note**
- Secondary Audio Mark is displayed only when Secondary Audio Mark is set to on (p. 32).
- ⑩ **HOME:** Displays the HOME menu screen (p. 18).
 - ⑪ **NETFLIX:** Starts Netflix (p. 23).
 - ⑫ **STATUS:** Displays the playback information (p. 25).
 - ⑬ **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. 26).
 - ⑭ **⏻:** Turns this Player on or sets it to standby mode.
 - ⑮ **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).
 - ⑯ **Color buttons BD:** Use these buttons according to on-screen instructions.


- ⑰ **SUBTITLE** **BD** **DVD** **VIDEO** : Changes subtitle languages (p. 43) if available. You can also select this item from On Screen menu (p. 24).
- ⑱ **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. 24).


Note


– Angle Mark is displayed only when the Angle Mark is set to on (p. 32).


- ⑲ **AUDIO** **BD** **DVD** : Changes the audio language or format. You can also select this item from On Screen menu (p. 24).
- ⑳ **SEARCH** **BD** **DVD** **CD** **VIDEO** **MUSIC** : Jumps to a specified point during playback. For details on this function, refer to “Using Search” (p. 26). You can also select this item from status menu (p. 25).
- ㉑ **SHUFFLE** **DVD** **CD** **VIDEO** **MUSIC** **PHOTO** : Selects shuffle play mode (p. 24).
- ㉒ **REPEAT** **BD** **DVD** **CD** **VIDEO** **MUSIC** **PHOTO** : 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 the folder being played back.

: Repeats all tracks/files on the disc.

: Repeats the track/file being played back.

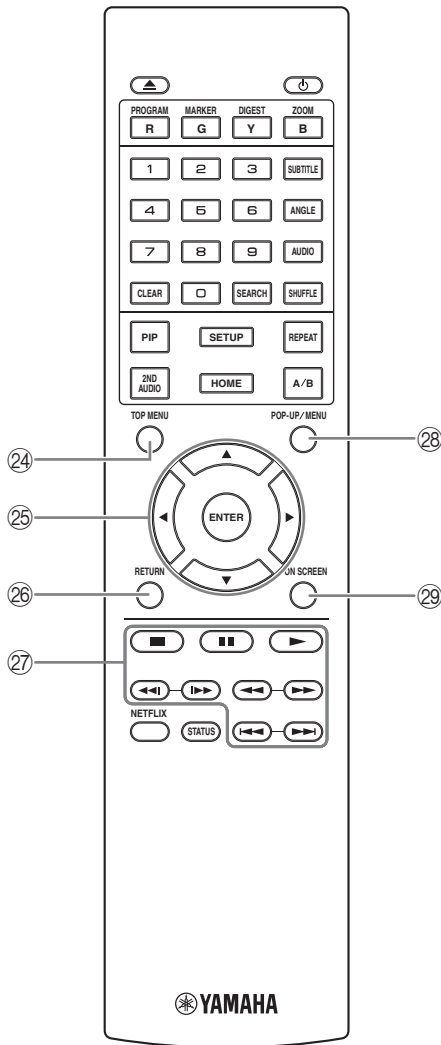
- ㉓ **A/B** **BD** **DVD** **CD** **VIDEO** **MUSIC** : Plays back a specific part you want to repeat.

- 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.

Continued to the next page. ➔



- ②4 **TOP MENU** **[BD]** **[DVD]**: Displays the top menu screen 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.

- ②5 **Cursor buttons (▲/▼/◀/▶)**: Moves the focus in the menu screen.

ENTER: Selects the focused menu/item.

- ②6 **RETURN**: Returns to the previous menu or screen, etc.

- ②7 **Control buttons**

[BD] **[DVD]** **[CD]** **[VIDEO]** **[MUSIC]** **[PHOTO]**

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

■: Pauses playback.

▶: Plays back contents.



[BD] **[DVD]** **[CD]** **[VIDEO]** **[MUSIC]**:

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.

[PHOTO]: Changes the speed of a slide show (slower/faster: 3 steps).



[BD] **[DVD]** **[CD]** **[VIDEO]** **[MUSIC]**:

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

◀◀/▶▶: Skips backward/forward.

Note

– 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 **■** twice and then **▶**.

- ②8 **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.

- ②9 **ON SCREEN**: Displays On Screen menu (p. 24).

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 7 seconds. To change the ID from ID2 to ID1, press and hold the red color button and **1** of number button simultaneously for 7 seconds.

2 Main unit setting

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

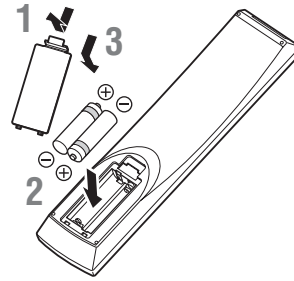
- No disc is inserted in this Player.
- The disc tray is closed.
- Playback is stopped.
- “NO DISC” is displayed on the front panel display.

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

Notes

- 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.
- When this Player is reset, its remote control ID will be ID1.

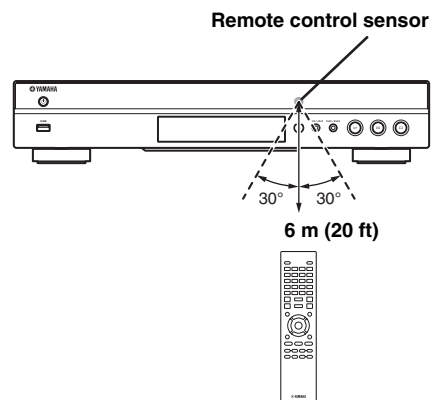
Loading the batteries in the remote control



Notes

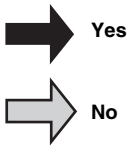
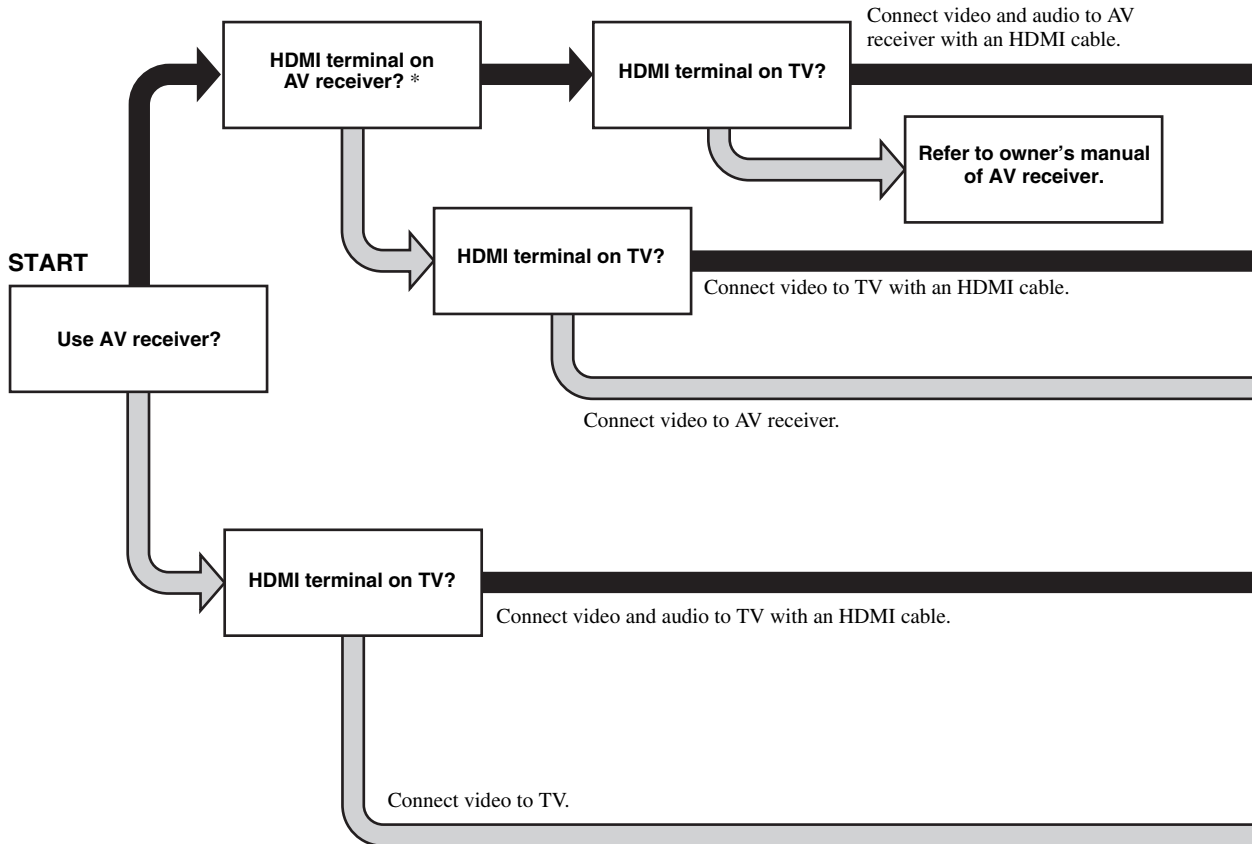
- Change both batteries when the operation range of the remote control decreases.
- Use AAA, R03, UM-4 batteries.
- Make sure that the polarities are correct. Refer to the illustration inside the battery compartment.
- Remove the batteries if the remote control is not to be used for an extended period of time.
- Do not use old batteries together with new ones.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations.
- Keep batteries away from children. If a battery is accidentally swallowed, contact your doctor immediately.
- When not planning to use the remote control for long periods of time, remove the batteries from the remote control.
- Do not charge or disassemble the supplied batteries.

Approximate operating range of remote control



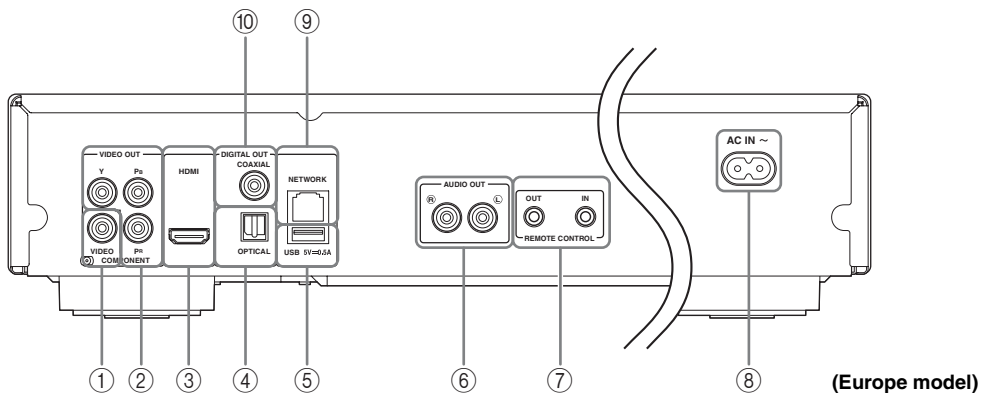
Introduction to connections

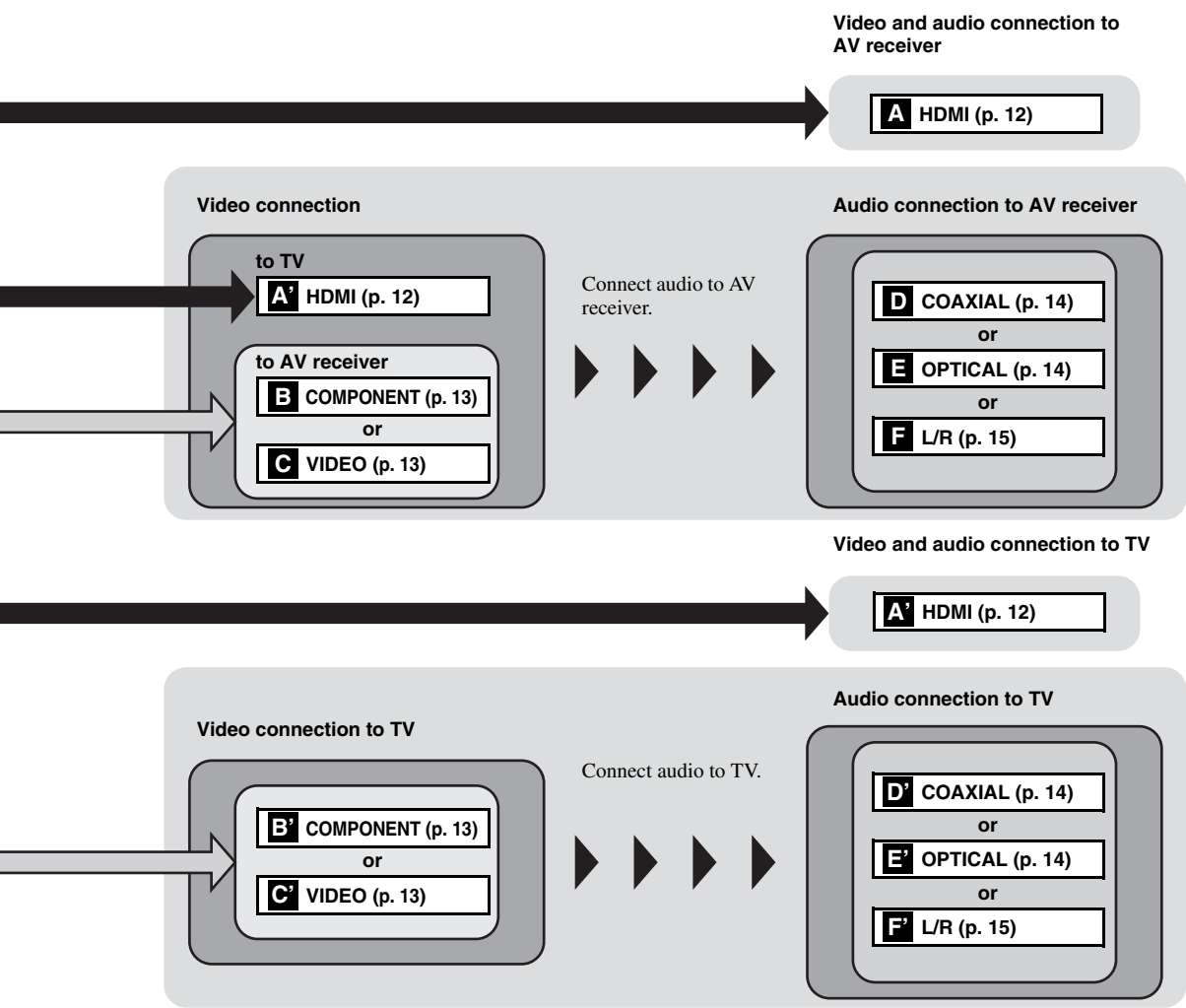
Find the corresponding connection method on your video/audio equipment. We recommend that you use the HDMI terminal which provides high quality digital audio and video on a single connection. If you use the other terminals/jacks, connect the video first. Then connect the audio.



* 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 VIDEO (p. 13)
- ② COMPONENT (p. 13)
- ③ HDMI (p. 12)
- ④ OPTICAL (p. 14)
- ⑤ USB (p. 16)

- ⑥ AUDIO OUT (L/R) (p. 15)
- ⑦ REMOTE CONTROL (OUT/IN) (p. 17)
- ⑧ AC IN (p. 17)
- ⑨ NETWORK (p. 16)
- ⑩ COAXIAL (p. 14)

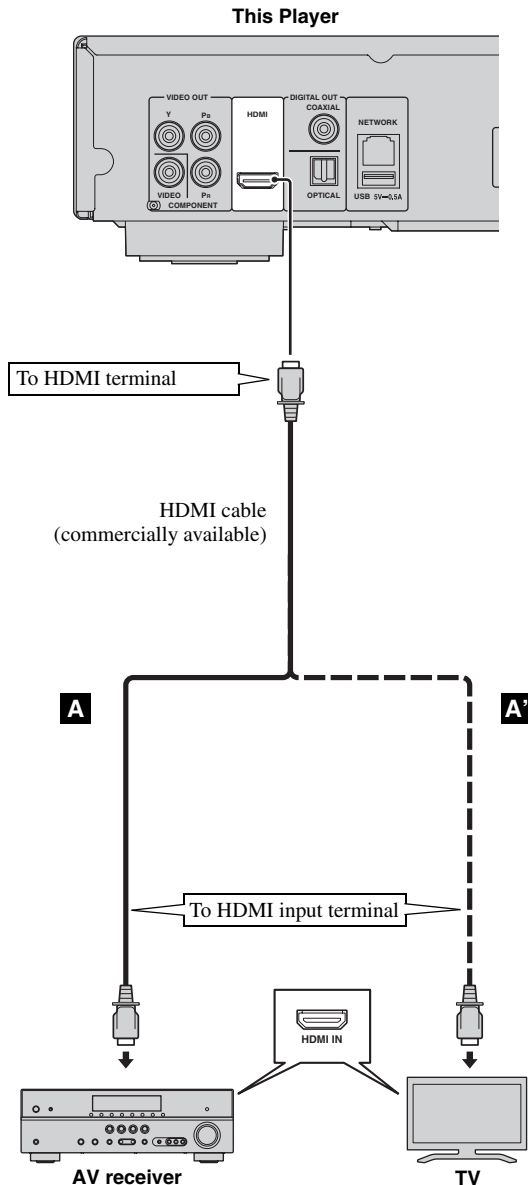
HDMI connection

■ 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 36 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. 31).
- For information on the output mode of HDMI terminal, refer to the "HDMI" (p. 35).
- When no picture is displayed, refer to "Troubleshooting" (p. 40).

■ Connection for the playback of Blu-ray 3D Discs

To enjoy Blu-ray 3D Discs on this Player, you need the following equipment and connections:

- You need a TV and an AV receiver (if you need) that have 3D functionality.
- All the components must be connected with HDMI cables.
- A Blu-ray Disc should contain 3D images.
- You need to set 3D Output in Display Setting (p. 33) to Auto.

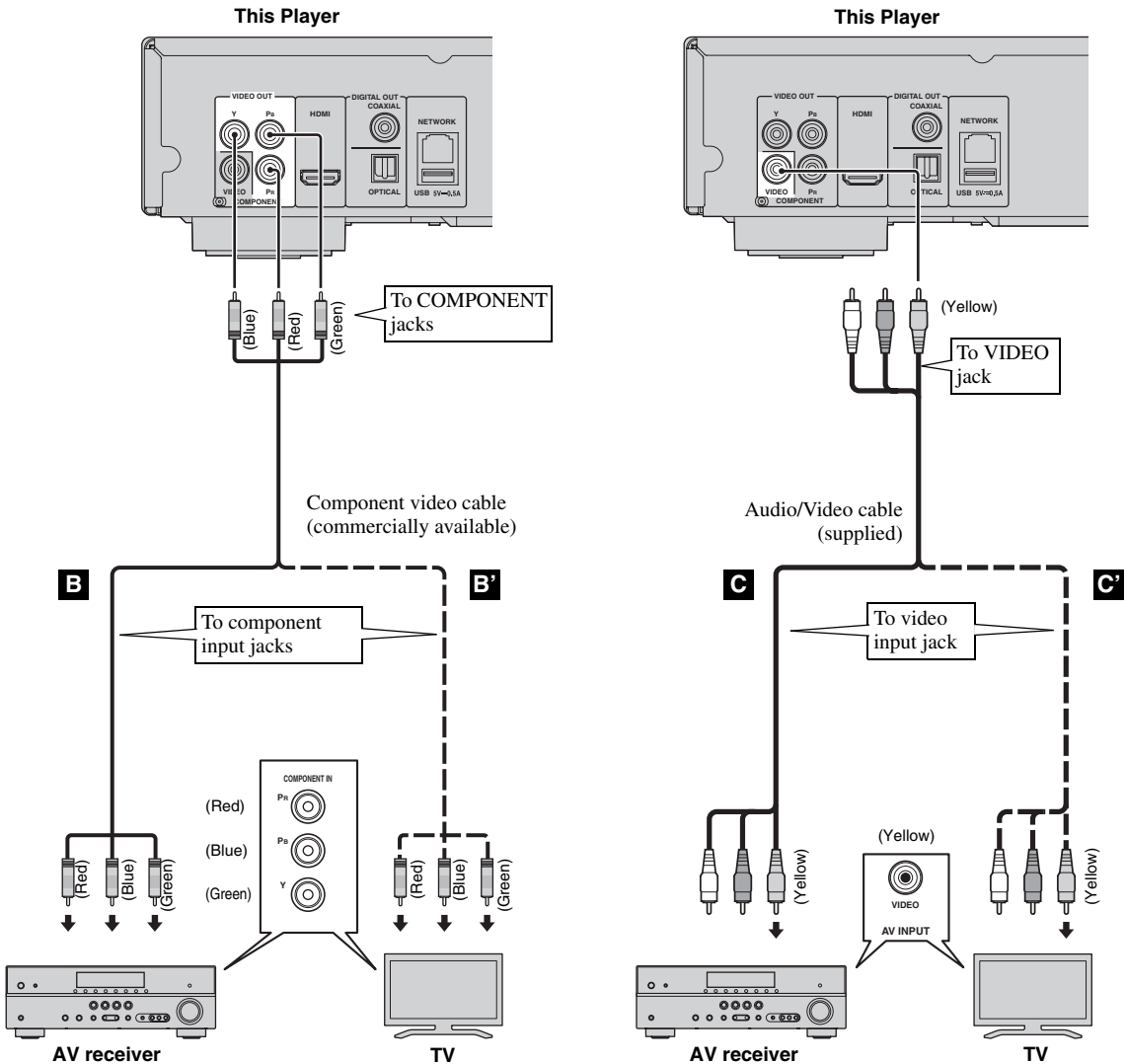
Video connections

■ 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 37 for information on the video output formats.

Caution!

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



Notes

- If you play back the image via VCR, the image may deteriorate due to the copy guard function.
- To enjoy Blu-ray 3D discs on this Player, you need to connect an AV receiver, a TV, and this Player using HDMI cables. See page 12.

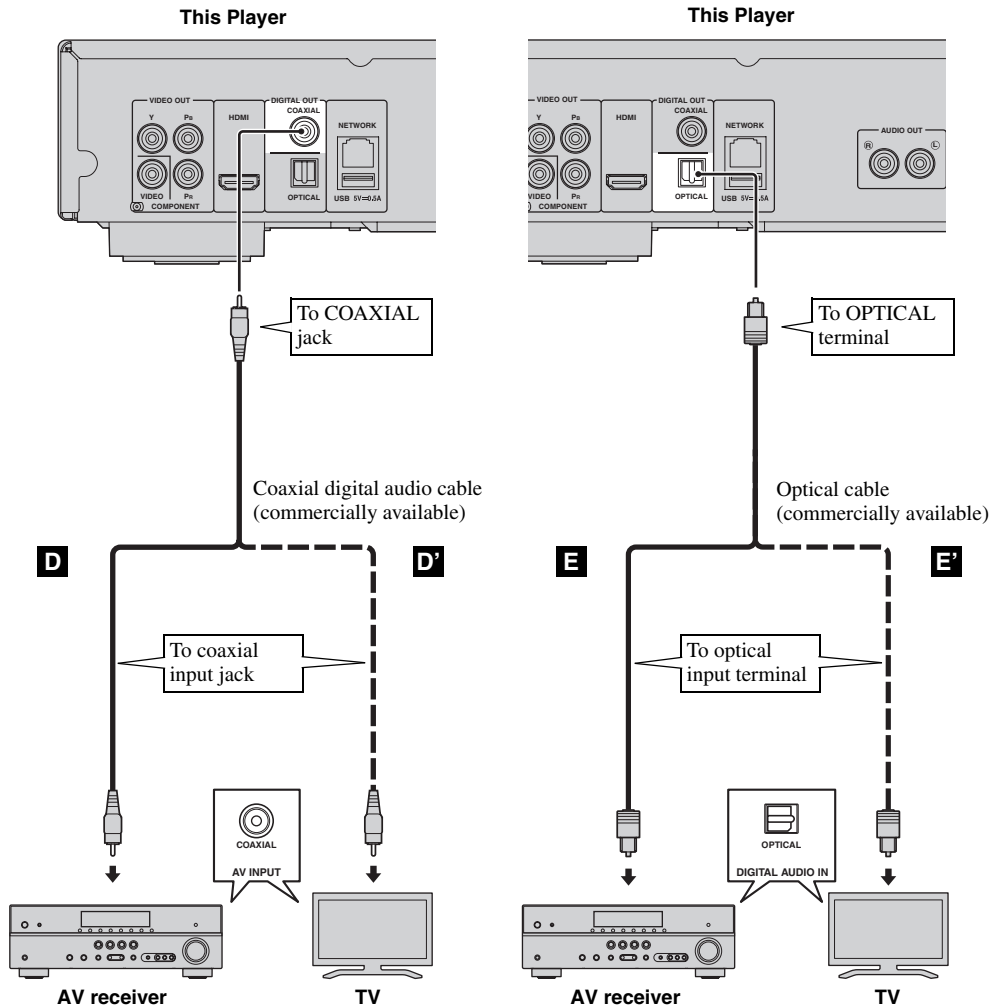
Audio connections

■ 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 36 for information on the audio output formats.

Caution!

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



Hint

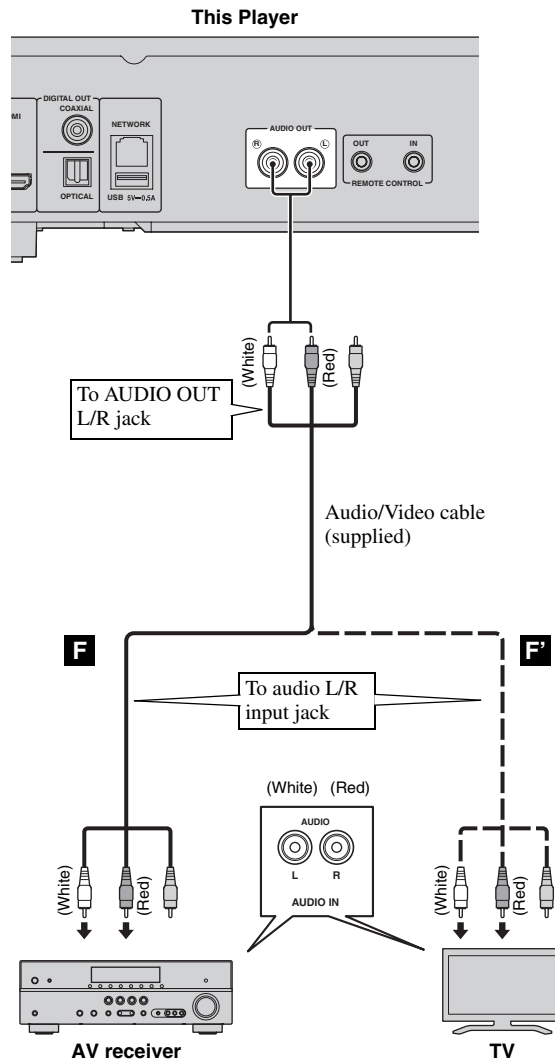
- For information on the output mode of COAXIAL jack/OPTICAL terminal, refer to the "Coaxial / Optical" (p. 35).

■ Connecting to the audio jacks

- You can connect audio equipment or the TV to the AUDIO OUT L/R jacks.
- Firmly connect an Audio/Video cable (supplied) to the AUDIO OUT L/R jack.
- See page 36 for information on the audio output formats.

Caution!

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



Network and USB connection

■ Connecting to the NETWORK terminal

- 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 27 regarding further information on BD-Live functions.

Notes

- Firmly connect a network cable (commercially available) to the NETWORK terminal.
- 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.
- 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.

■ Connecting to the USB connector

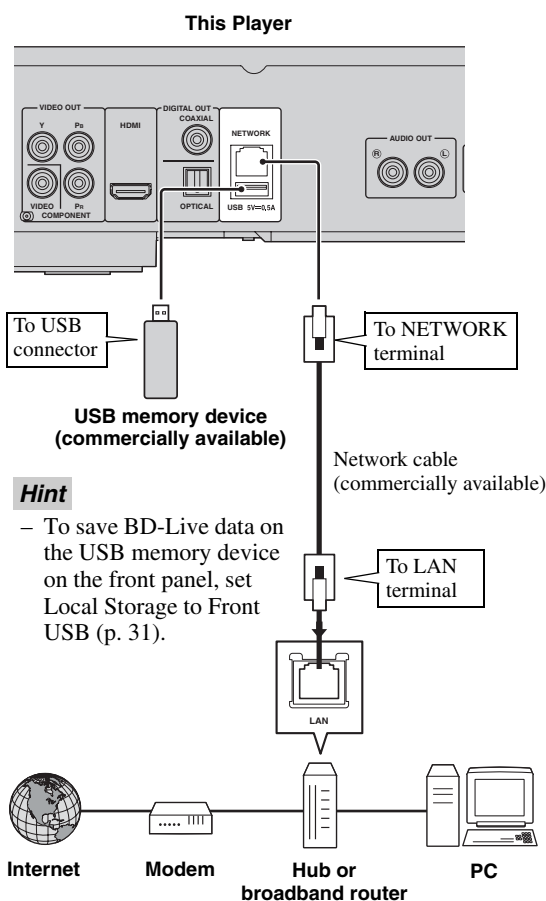
- You can connect a USB memory device for Local Storage to the USB connector on the rear panel (or front panel) of this Player.
- Firmly connect a USB memory device (commercially available) to the USB connector.

CAUTION:

- Do not remove the USB memory device or unplug the power cable while the operations for BD-Live (p. 27) or software upgrade are being performed.
- Do not use a USB extension cable when connecting a USB memory device to the USB connector of this 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.



After connecting

- When you set the Network setting manually, refer to “Network” (p. 32).
- To play back the PC contents on your network, refer to “Using network content” (p. 20).

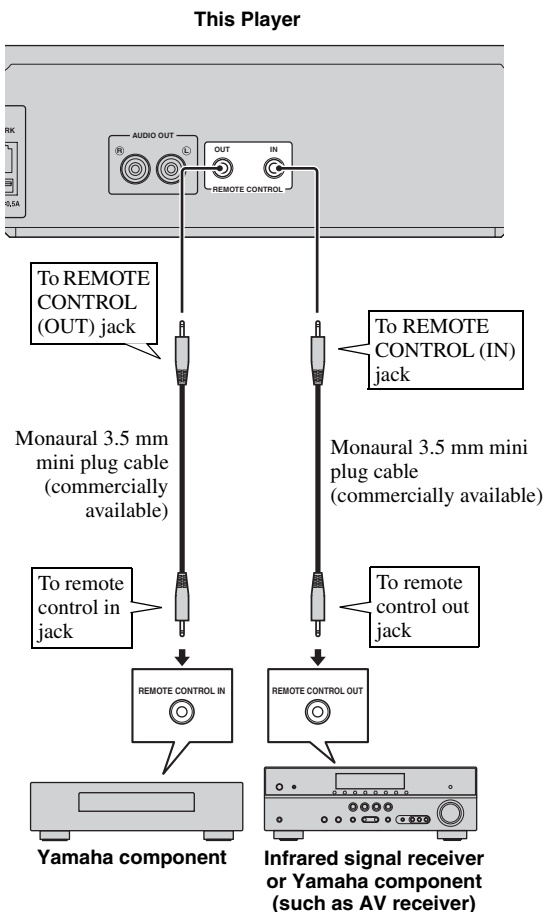
Other connections

■ 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.

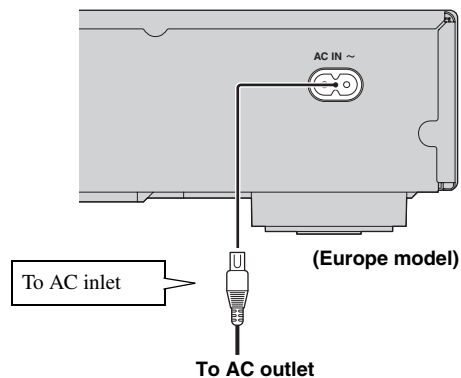


Hints

- 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.

■ 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

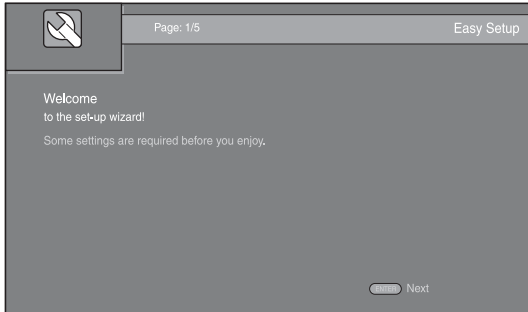
- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH THE UN-INSULATED PARTS OF ANY CABLES WHILE THE POWER CABLE IS CONNECTED.

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. 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 Set the language, resolution, and screen aspect ratio by following the on-screen messages.



Notes

- When no picture is displayed after Initial Wizard/Easy Setup is completed, refer to “Troubleshooting” (p. 40).
- A warning message concerning 3D video playback appears when this Player is turned on. Press **ENTER** to dismiss the message or **CLEAR** to disable it (p. 31).

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.

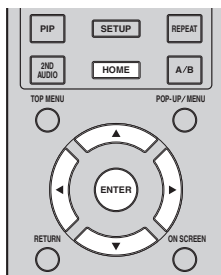
Note

- For details on playable discs and formats, see page 3.

■ Playing back photo/music/video

Basic operation

- ◀/▶/▲/▼: Moves the focus.
- ◀: Returns to the parent folder.
- HOME: Moves to/exits HOME menu screen.
- ENTER: Confirms the folder/file.



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 connector.
- 🔍: Searches for a DLNA (p. 20) server on the network.
- 🖥️: Displays contents on the connected DLNA server.

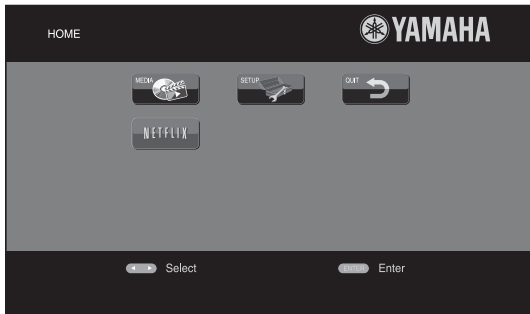
Common operations for playing back files in a selected folder

Example: Selecting a movie file on a USB memory device

Note

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

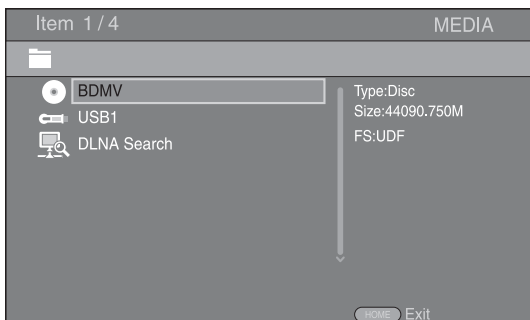
- 1 Press **HOME** to move to HOME menu screen.



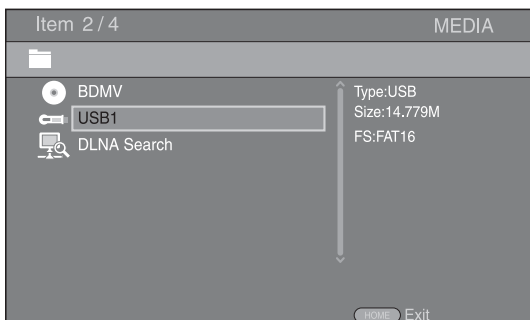
Hint

- The HOME menu screen may differ depending on the model.

- 2 Press **◀/▶/▲/▼** to select MEDIA, then press **ENTER**. MEDIA screen appears.

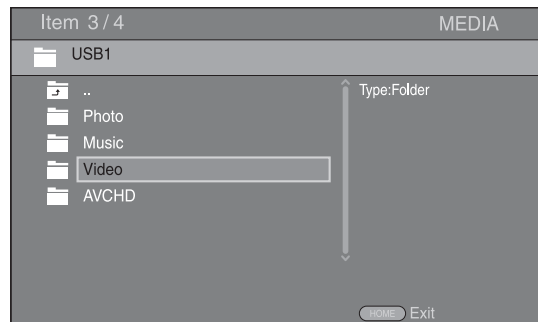


- 3 Select the item which contains the file you want to play back, then press **ENTER**.



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

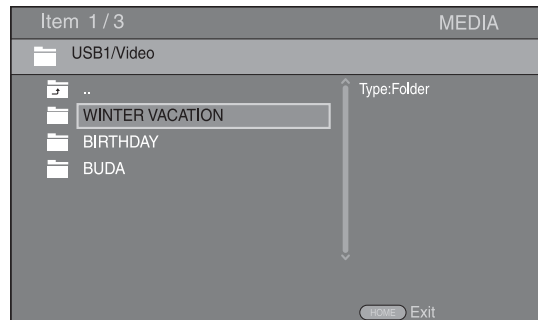
To return to the parent folder, press **◀** or select **⬆**.



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 want to play back other than photo, return to this step and select file type again.

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



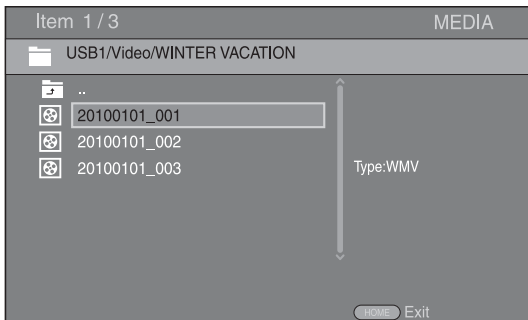
Continued to the next page. →

- 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.

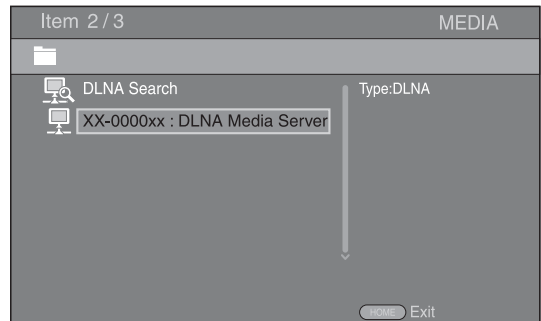
- : Stops slide show and returns to the file browser.
- : Pauses a slide show.
- ▶: Plays a slide show.
- ▶▶: Moves to a next photo.
- ◀◀: Moves to a previous photo.
- ▶▶▶: Makes a slide show faster in 3 steps.
- ◀◀◀: Makes a slide show slower in 3 steps.
- ▲: Inverts a photo.
- ▼: Reflects a photo.
- ◀: Rotates a photo counterclockwise.
- ▶: Rotates a photo clockwise.
- ZOOM:** Zooms in/out a photo (zoom in/out: 3 steps each).
 - ▲/▼/◀/▶: Pans in zoom mode when a photo is larger than the screen.
- DIGEST:** Switches to thumbnail mode (p. 6). When thumbnails are displayed, you can proceed to the next/previous page with ◀◀◀/▶▶▶.

Using network content

This Player is DLNA certified (p. 42). You can manage photo, music and video contents stored on DLNA servers on your home network.

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.

Using network services

You can instantly watch the videos that the following network services provide.

- YouTube
- Picasa (p. 22)
- Netflix (p. 23)

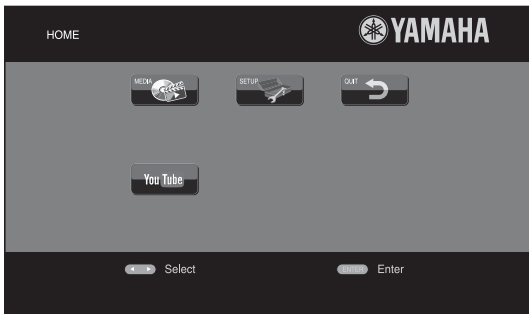
Notes

- Access to content provided by third parties requires a high speed internet connection and may also require account registration and a paid subscription.
- Third party content services may be changed, suspended, interrupted, or discontinued at any time without notice, and Yamaha disclaims any liability in connection with such occurrences.
- Some content may only be available for specific countries and may be presented in specific languages.
- Yamaha does not represent or warrant that content services will continue to be provided or available for a particular period of time, and any such warranty, express or implied, is disclaimed.

Playing videos from YouTube™

You can watch movies from YouTube over the internet using this Player.
The services may be changed without notice.

- 1 Press **HOME** to display HOME menu screen.



Hint

- The HOME menu screen may differ depending on the model.

- 2 Press ◀/▶/▲/▼ to select YouTube, then press **ENTER**.

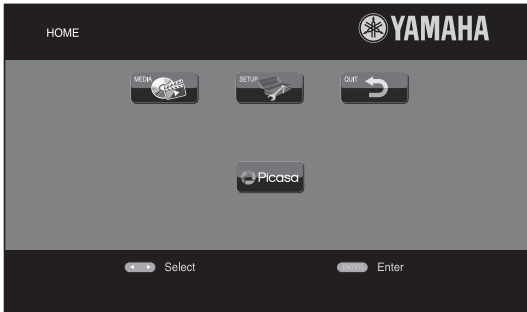
Hint

- To exit from YouTube, press **RETURN**.

Playing photos from Picasa™ Web Album

You can watch photos from Picasa Web Album over the internet using this Player.
The service may be changed without notice.

- 1 Register your user name and password on the computer before you use Picasa Web Album.
- 2 Press **HOME** to display HOME menu screen.
Press ◀/▶/▲/▼ to select Picasa, then press **ENTER**.



Hint

- The HOME menu screen may differ depending on the model.

- 3 When you access Picasa from this Player for the first time, select the New User icon and enter your registered user name and password.

Hint

- To exit from Picasa, press **RETURN**.

Playing videos from Netflix™

You can instantly watch movies and TV episodes from Netflix over the internet using this Player. To become a Netflix member, visit www.netflix.com.

Netflix is available in certain countries. Unlimited membership required.

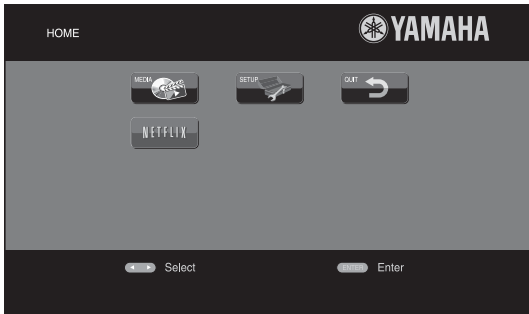
More information at www.netflix.com

■ Launching Netflix

1 Press **HOME** to display HOME menu screen.

Press **◀/▶/▲/▼** to select NETFLIX, then press **ENTER**.

You can also press **NETFLIX** on the remote control to launch Netflix.



Hints

- The HOME menu screen may differ depending on the model.
- To return to the HOME menu screen, press **RETURN**.

Notes

- When a software upgrade is required, an update notice appears when you select Netflix. In this case, perform the software upgrade.
- For details on Netflix, refer to the Netflix website on www.netflix.com.
- To deactivate Netflix, refer to “Netflix Information” (p. 32).

Advanced playback operation

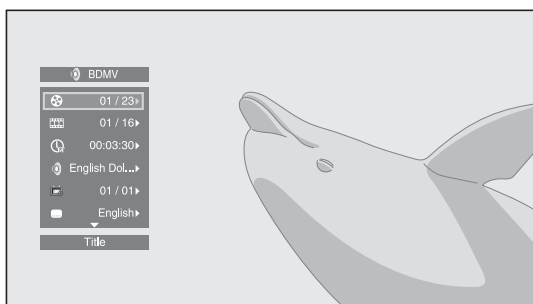
This chapter explains playback of commercially available Blu-ray Discs, DVDs, CDs, and recorded DVD-RW/R discs.

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:

CD

- Normal: Normal playback.
- Shuffle: Random playback without repetition.
- Random: Random playback with repetition.

DVD

- Normal
- Shuffle CH (chapter)
- Shuffle TT (title)
- Shuffle All
- Random CH (chapter)
- Random TT (title)
- Random All

VIDEO MUSIC PHOTO

- Normal
- Shuffle F (folder)
- Random F (folder)

Audio **BD** **DVD** **VIDEO** : Shows audio language/signal of a Blu-ray Disc/DVD 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.

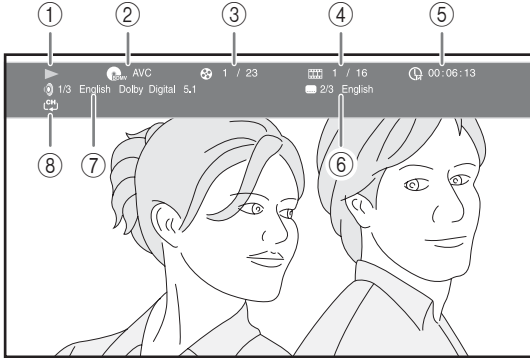
Code Page **VIDEO** : Selects character code of subtitle you added to DivX video (p. 42).

■ 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.

BD DVD VIDEO

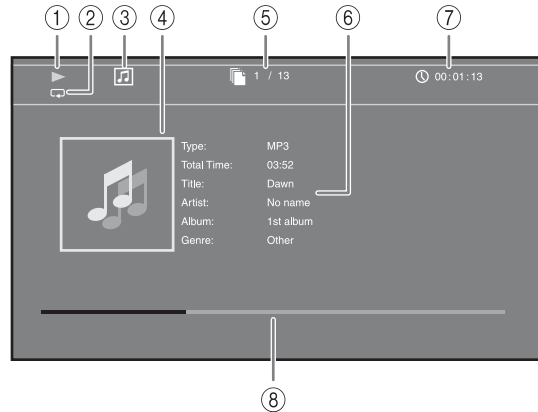
Example: Icons when playing a Blu-ray Disc



- ① **(Playback status)**
- ② **(Disc type/video file icon)**
- ③ **(Title number being played):** You can jump to specified title with **SEARCH** button (p. 7).
- ④ **(Chapter number being played):** You can jump to specified chapter with **SEARCH** button (p. 7).
- ⑤ **(Elapsed playback time):** You can jump to specified point with **SEARCH** button (p. 7).
- 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. 7).

CD MUSIC

Example: Icons when playing a music file



- ① **(Playback status)**
- ② **(Repeat mode):** Shows current repeat mode (p. 7).
- 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. 7).
- 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. 7).
- ⑧ **(Progress bar) MUSIC:** Shows progress status of current song.

PHOTO



- ① **(Playback status)**
- ② **(Photo file icon)**
- ③ **(File number being displayed)**
- ④ **(Repeat mode):** Shows current repeat mode (p. 7).
- 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.

Bookmark: 1/12 Title: 1 Chapter: 1 Time: 00:01:26

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

Title:01 Chapter:01 Time: 00:01:26 Bookmark
 01 02 03 04 05 06 07 08 09 10 11 12 CLEAR Clear

- 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.

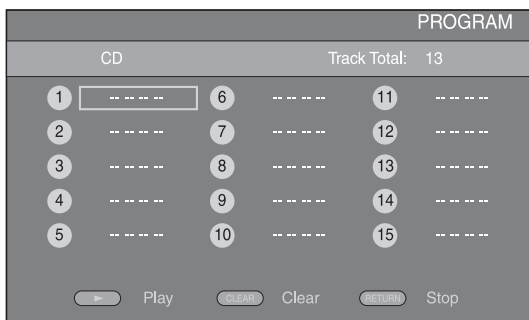
■ Program play DVD CD

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.

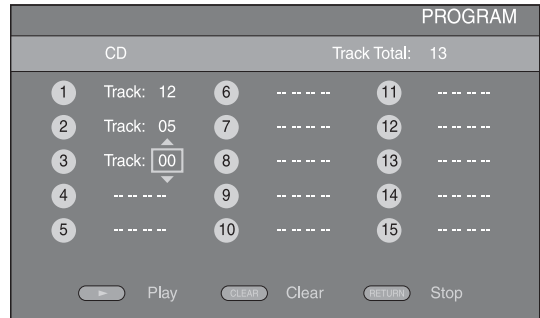


- 2 Press **ENTER** to program playback order. For audio disc, press **▲/▼** to select a desired track then press **ENTER**.

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 PHOTO




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 )

PHOTO :

- File number (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™

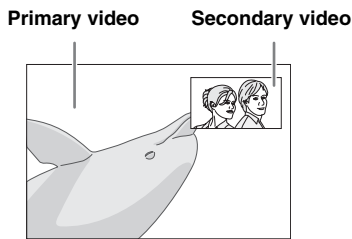
This Player supports BONUSVIEW (p. 42) (BD-ROM Profile 1 Version 1.1) and BD-Live (p. 42) (BD-ROM Profile 2) playback functions.

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. 35).
- Depending on the disc, to listen to secondary audio, you may need to set secondary audio to on from the top menu of the disc (p. 8).
- 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. 32).

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

BD-Live data is saved in a USB memory device connected to this Player. To enjoy these functions, connect a USB memory device supporting USB 2.0 High Speed (480 Mbit/s) to the USB connector that you select on Local Storage (p. 31). The default setting is the USB connector on the rear panel.

- 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 connector 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 Blu-ray Disc manual.
- To enjoy BD-Live functions, perform the network connection (p. 16) and Network settings (p. 32).
- Refer to "BD-Live Connection" (p. 33) 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 Blu-ray 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. 31).

SETUP menu

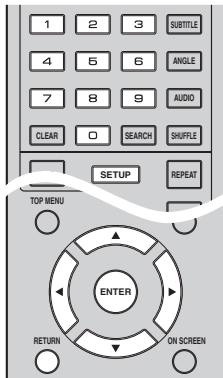
The SETUP menu enables various audio/visual settings and adjustments for functions using the remote control unit.

Menu/Submenu	Item	Function	Page
 General Setting	System		
	Screen Saver	Sets screen saver on/off.	31
	Disc Auto Playback	Sets this Player to start disc playback automatically.	31
	HDMI Control	Sets this Player to receive control signal from the remote control of your TV/AV receiver.	31
	Network Control	Sets the control via Ethernet to on/off.	31
	Load Default	Resets all settings to the default setting except Security setting.	31
	Upgrade	Performs upgrade of this Player.	31
	Easy Setup	Sets language, resolution, screen aspect ratio.	31
	Local Storage	Displays status of Local Storage (p. 31), formats Local Storage and selects the front/rear USB connector for Local Storage.	31
	3D Playback Message	Displays a warning message concerning 3D video playback when this Player is turned on.	31
	Language		
	OSD	Selects the language for On Screen Display.	31
	Menu	Prioritizes the language for disc menu.	31
	Audio	Prioritizes the language for audio.	32
	Subtitle	Prioritizes the language for subtitle.	32
	Playback		
	Closed Caption	Sets the closed caption to on/off.	32
	Angle Mark	Sets to display the Angle Mark when Blu-ray Disc/DVD with multiple angles is played back.	32
	PIP Mark	Sets to display the PIP Mark when Blu-ray Disc/DVD with Picture in Picture is played back.	32
	Secondary Audio Mark	Sets to display the Secondary Audio Mark when Blu-ray Disc/DVD with secondary audio is played back.	32
	Last Memory	Sets this Player to remember the last playback position of a disc when it is set to standby mode or the disc tray is opened.	32
	DivX(R) VOD DRM	Displays registration code for DivX(R) video.	32
	Netflix Information	Deactivates this Player from Netflix and displays ESN (Electronic Serial Number).	32
	Security		
	Change Password	Changes password for Parental Control and Country Code.	32
	Parental Control	Sets the Parental Control depending on the disc content.	32
	Country Code	Sets your Country Code.	32
	Network		
	Internet Connection	Sets the internet connection to Enable/Disable.	32
	Connection Setting	Sets a network connection method.	32
	Information	Displays network information screen.	33
	Connection Test	Performs the network connection test.	33
	IP Setting	Sets the IP setting to Auto/Manual.	33
BD-Live Connection	Sets the BD-Live connection to Permitted/Partial Permitted/Prohibited.	33	
DLNA	Sets the DLNA to Enable/Disable.	33	
Proxy Setting	Sets the proxy setting.	33	

Menu/Submenu	Item	Function	Page	
 Display Setting	TV	3D Output	Selects 3D or 2D videos.	33
		TV Screen	Sets the screen aspect ratio of the connected TV, and adjust the video output.	33
		Video Out Select	Selects the resolution of video output.	34
		TV System	Selects the TV System from NTSC/PAL/Multi.	34
		Color Space	Selects Color Space from YCbCr 4:4:4/YCbCr 4:2:2/Full RGB/RGB.	34
		HDMI Deep Color	Selects HDMI Deep Color from 30 bits/36 bits/48 bits/Off.	34
		HDMI 1080p 24Hz	Sets HDMI 1080p 24Hz to auto/off.	34
		Lip Sync	Adjusts the lag between video and audio, such as when the mouth movement is out of sync with the voice.	34
	Video Process	Video Mode	Adjusts the visual image.	34
		Color Adjust	Adjusts Brightness/Saturation/Hue for each color.	35
		Noise Reduction	Sets the level of Noise Reduction.	35
		De-interlacing Mode	Sets how to detect the video signal.	35
	 Audio Setting	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.	35
Downsampling			Selects the digital audio signal down sampling frequency from 48K/96K/192K.	35
DRC			Sets the DRC (Dynamic Range Compression).	35
Speaker Setting		2ch Downmix	Sets the audio output from AUDIO OUT L/R jack.	35
Post Process		UpMix	Multi-channelizes the 2-channel audio signal.	35
 System Information		Displays software version and MAC address (p. 43).	35	

■ 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.

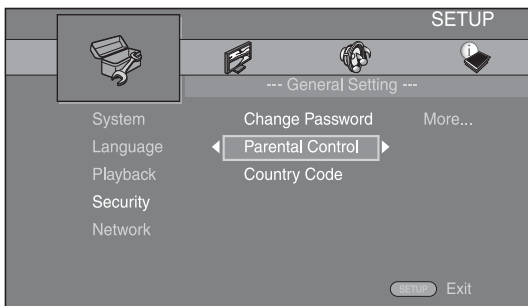
Press **SETUP** to display the SETUP menu screen. Press **◀/▶** to select General Setting, then press **ENTER** or **▼**.

2. Select a Submenu.

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

3. Select a menu item.

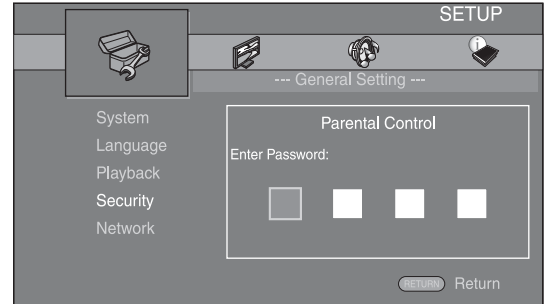
Press **▲/▼** to select Parental Control, then press **ENTER** or cursor **▶**.



4. Enter password.

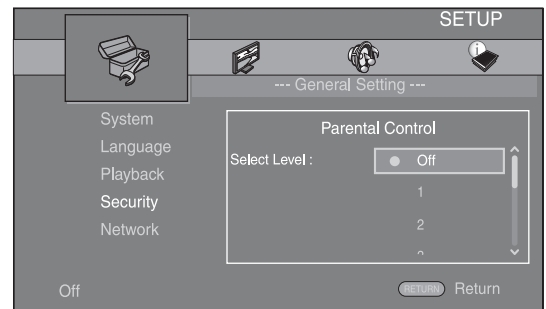
Enter your password with number buttons.

- 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. 32).



5. Select a next item.

Press **▲/▼** to select the Parental Control Level for Blu-ray Disc/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 27 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. 31), 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.
- When set to on, power consumption during standby mode increases due to HDMI Control function.

Network Control

You can set control via Ethernet to On/Off. This Player employs Yamaha Network Control protocol (YNC).

On, Off*

Notes

- When Network Control is enable, power consumption during standby mode increases due to network control function.
- When set to On, the system startup time is decreased.

Load Default

You can reset all settings of this Player to default setting except Security setting (p. 32). For details on default settings, see pages 28–35.

Upgrade

You can upgrade the software manually from USB Storage or Network. For details on software upgrade, refer to “Software upgrade” (p. 38).

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*

Hint

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

3D Playback Message

You can turn on or off a warning message concerning 3D video playback that appears on the TV when this Player is turned on.

On*, Off

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, 中文

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 Blu-ray Disc/DVD playback. For details on setting items, see “Menu” (p. 31).

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


(The default settings in [Language] differ depending on your model.)

Playback**Closed Caption**

You can set to display the closed caption (p. 42) when Blu-ray Disc/ DVD with closed caption is played back.


On*, Off

Angle Mark

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


On*, Off

PIP Mark

You can set to display the PIP Mark () when Blu-ray Disc with picture in picture (p. 27) is played back.

On*, Off

Secondary Audio Mark

You can set to display the Secondary Audio Mark () when Blu-ray Disc with secondary audio is played back.

On*, Off

Last Memory

You can set whether this Player remembers the last playback position of a disc when it is set to standby mode or the disc tray is opened.

On*, Off

Note

- Some discs are not compatible with this function.

DivX(R) VOD DRM

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

Netflix Information

You can deactivate this Player from Netflix and display ESN (Electronic Serial Number). To activate this Player again, refer to “Playing videos from Netflix™” (p. 23). ESN (Electronic Serial Number) is a unique number that allows you to use Netflix streaming.

Security**Change Password**

You can set the password for changing the Parental Control Level and Country Code. Refer to “Parental Control” (p. 32) and “Country Code” (p. 32).

Notes

- The default password is 0000.
- If you forget the password, refer to “Troubleshooting” (p. 39) and set all the Security settings to their default settings.

Parental Control

In some Blu-ray Discs/DVDs, 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. 32) 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*, 1–8

Country Code

You can set the Country Code you live in. The password (see “Change Password” on p. 32) 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. 27), DLNA (p. 20), software upgrade from the network (p. 38), and the other network functions.

Enable*, Disable

Connection Setting

You can select a network connection method.

Wired*

Connects the network using Ethernet.

Wireless

Connects the network using a wireless LAN. You can select settings for a wireless LAN connection. Follow the on-screen instructions to proceed.

Scan

Searches for an access point. You can connect the access point that is found.

Manual

You can manually set information for an access point.

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. 33) and perform the test again.

IP Setting

You can configure the network settings.

- Auto*** Select to automatically configure the network settings of this Player with the DHCP server.
- Manual** Select to configure the network settings (IP Address, Subnet Mask, Default Gateway, and DNS) manually.

Hints

- **Numeric keys** Enters characters.
- **◀▶** Moves the highlight.
- **CLEAR** Deletes a character.
- **ENTER** Saves the settings and exits from the menu.

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. 42) 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

3D Output

You can select 3D or 2D video output from this Player.

- Auto*** This Player automatically selects 3D or 2D videos.
- Off** This Player always selects 2D videos.

Note


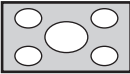
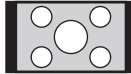
- Even if you set “3D Output” to “Auto” and play back a Blu-ray 3D Disc, this Player selects 2D images depending on the connection and the setting of TV, etc (p. 12).

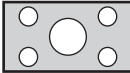


TV Screen

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 Letter Box** 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
 4:3		

Original image size	On 4:3 TV	
	4:3 Pan Scan	4:3 Letter Box
 16:9		

Video Out Select

You can select the video output resolution from HDMI, COMPONENT, and VIDEO. For more details on output formats, refer to “About the video output formats” (p. 37).

HDMI When set to Auto, resolution is set to the maximum resolution according to the connected TV. When set to Disc Native, the original resolution and video frequency, recorded in the Blu-ray Disc or DVD that is played back, are used. You can use a video up-converter function of an external device. When other than a Blu-ray Disc or DVD is played back, the resolution and video frequency will work as Auto. If a Blu-ray Disc or DVD whose resolution and video frequency are not compatible with the connected TV, no image will be output. In this case, stop playback, and select an option other than Disc Native.

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

COMPONENT You can select only 480p/576p or 480i/576i. **480p/576p, 481i/576i***

VIDEO This works as same as 480i/576i.

Notes

- To output HD audio (Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Video Out Select to Auto or more than 720p.
- If a TV is connected with an HDMI cable, default setting will be HDMI.
- If a TV is not connected with an HDMI cable, default setting is VIDEO.

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. 37).

NTSC, PAL, Multi

(The default setting differs depending on your model.)

Color Space

You can select the Color Space (p. 42) output from HDMI. This function is available when this Player is connected with an HDMI cable.

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.

RGB Outputs video signal at normal signal 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. 42), 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, 48 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. 37).

Auto*, Off

Note

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

Lip Sync

You can set/adjust the Lip Sync (p. 43) function.

Auto* This Player adjusts the Lip Sync function automatically.

Manual You can adjust the Lip Sync function manually. You can set the delay of the audio for 2D and 3D contents independently.

2D

3D

Off This Player does not adjust the Lip Sync function.

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. 34).

The default settings are 0.

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. 36).

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

HDMI

You can select the output mode of HDMI terminal. For details on setting items, see “Coaxial / Optical” (p. 35). For more details on output formats, refer to “About the audio output formats” (p. 36).

Bitstream*, PCM, Reencode, Off

Note

- To output HD audio (Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Video Out Select to Auto or more than 720p (p. 34).

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. 42) 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*

Speaker Setting

2ch Downmix

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

- 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.
- Stereo*** Changes channel output to stereo, which only delivers sound from the two front speakers.

Post Process

UpMix

You can multi-channelize the 2-channel audio signal. To multi-channelize, select DTS NEO:6, then select Cinema or Music mode.

Off*, DTS NEO:6

■ System Information

Software version and MAC address (p. 43) are displayed.

■ About the audio output formats

Source format		HDMI			COAXIAL / OPTICAL			MIXED 2CH
		Bitstream	PCM	Reencode	Bitstream	PCM	Reencode	–
PCM 2ch	with SA* or BCS**	PCM 2ch		Dolby Digital	PCM 2ch		Dolby Digital	2ch
	without SA* or BCS**	PCM 2ch			PCM 2ch			2ch
PCM 5.1ch	with SA* or BCS**	PCM 5.1ch		Dolby Digital	PCM 2ch		Dolby Digital	2ch
	without SA* or BCS**	PCM 5.1ch			PCM 2ch			2ch
PCM 7.1ch	with SA* or BCS**	PCM 7.1ch		Dolby Digital	PCM 2ch		Dolby Digital	2ch
	without SA* or BCS**	PCM 7.1ch			PCM 2ch			2ch
Dolby Digital	with SA* or BCS**	Dolby Digital	PCM up to 5.1ch	Dolby Digital	Dolby Digital	PCM 2ch	Dolby Digital	2ch
	without SA* or BCS**							
Dolby Digital Plus	with SA* or BCS**	Dolby Digital Plus	PCM up to 7.1ch	Dolby Digital	Dolby Digital	PCM 2ch	Dolby Digital	2ch
	without SA* or BCS**			Dolby Digital Plus				
Dolby TrueHD	with SA* or BCS**	Dolby TrueHD	PCM up to 7.1ch	Dolby Digital	Dolby Digital	PCM 2ch	Dolby Digital	2ch
	without SA* or BCS**			Dolby TrueHD				
DTS	with SA* or BCS**	DTS	PCM up to 5.1ch	DTS	DTS	PCM 2ch	DTS	2ch
	without SA* or BCS**							
DTS HD High Resolution	with SA* or BCS**	DTS HD High Resolution	PCM up to 7.1ch	DTS	DTS	PCM 2ch	DTS	2ch
	without SA* or BCS**			DTS HD High Resolution				
DTS-HD Master Audio	with SA* or BCS**	DTS-HD Master Audio	PCM up to 7.1ch	DTS	DTS	PCM 2ch	DTS	2ch
	without SA* or BCS**			DTS-HD Master Audio				

* “SA” is a Secondary Audio.

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

Notes

- When Coaxial / Optical or HDMI is set to Bitstream, secondary audio is not output. (p. 35)
- To output HD audio (Dolby TrueHD or DTS-HD Master Audio) from HDMI terminal, set Video Out Select to Auto or more than 720p (p. 34).

■ About the video output formats

When TV System is set to NTSC

Contents	Output terminal	Video Out Select									
		HDMI							COMPONENT		VIDEO
		Auto	Disc Native	1080p	1080i	720p	480p/576p	480i/576i	480p/576p	480i/576i	–
BD-Video with 1080p/24Hz content	HDMI	*1	1080p 24Hz	1080p 24Hz/60Hz *4	1080i 60Hz	720p 60Hz	480p	480i	480p	480i	480i
	COMPONENT	*2	off	off	off	off	480i	480i	480i	480i	480i
	VIDEO						480i	480i	480i	480i	480i
BD-Video without 1080p/24Hz content	HDMI	*1	*3	1080p 60Hz	1080i 60Hz	720p 60Hz	480p	480i	480p	480i	480i
	COMPONENT	*2	off	off	off	off	480i	480i	480i	480i	480i
	VIDEO						480i	480i	480i	480i	480i
DVD-Video	HDMI	*1	*3	1080p 60Hz	1080i 60Hz	720p 60Hz	480p	480i	480p	480i	480i
	COMPONENT	*2	*2	off	off	off	480p	480i	480p	480i	480i
	VIDEO						480i	480i	480i	480i	480i
Others	HDMI	*1	*1	1080p 60Hz	1080i 60Hz	720p 60Hz	480p	480i	480p	480i	480i
	COMPONENT	*2	*2	off	off	off	480p	480i	480p	480i	480i
	VIDEO						480i	480i	480i	480i	480i

When TV System is set to PAL

Contents	Output terminal	Video Out Select									
		HDMI							COMPONENT		VIDEO
		Auto	Disc Native	1080p	1080i	720p	480p/576p	480i/576i	480p/576p	480i/576i	–
BD-Video with 1080p/24Hz content	HDMI	*1	1080p 24Hz	1080p 24Hz/50Hz *4	1080i 50Hz	720p 50Hz	576p	576i	576p	576i	576i
	COMPONENT	*2	off	off	off	off	576i	576i	576i	576i	576i
	VIDEO						576i	576i	576i	576i	576i
BD-Video without 1080p/24Hz content	HDMI	*1	*3	1080p 50Hz	1080i 50Hz	720p 50Hz	576p	576i	576p	576i	576i
	COMPONENT	*2	off	off	off	off	576i	576i	576i	576i	576i
	VIDEO						576i	576i	576i	576i	576i
DVD-Video	HDMI	*1	*3	1080p 50Hz	1080i 50Hz	720p 50Hz	576p	576i	576p	576i	576i
	COMPONENT	*2	*2	off	off	off	576p	576i	576p	576i	576i
	VIDEO						576i	576i	576i	576i	576i
Others	HDMI	*1	*1	1080p 50Hz	1080i 50Hz	720p 50Hz	576p	576i	576p	576i	576i
	COMPONENT	*2	*2	off	off	off	576p	576i	576p	576i	576i
	VIDEO						576i	576i	576i	576i	576i

*1 Resolution will be set to the maximum resolution supported by the connected TV. For example, when the maximum resolution supported by the connected TV is 1080p, the resolution will be set to 1080p.

*2 Video might not be output because HDMI output has priority.

*3 Resolution will be that of the source disc.

*4 If Auto is set for HDMI 1080p 24Hz and the connected TV supports 1080p 24Hz content, 1080p 24 Hz will be output instead of 1080p 50/60 Hz.

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.

Notes

- HDMI 1080p 24Hz setting is disabled when output resolution is other than 1080p.
- 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 Blu-ray 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/>

Note

- Do not remove the 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.

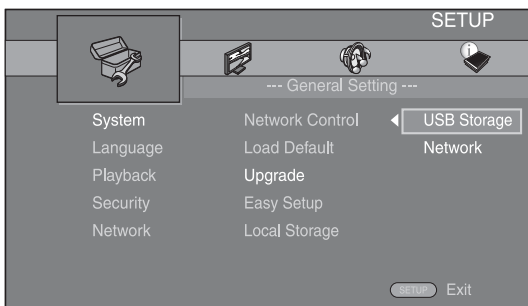
When you upgrade the software from USB Storage:

- ① Save the upgrade file package to the appropriate folder on the USB memory device. For more details, refer to the procedure document attached with the upgrade file package.
- ② Connect the USB memory device.
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 USB Storage/Network.



The system will search for upgrade file package.


3. Upgrade the software by following the on-screen messages.

Upgrade is completed. The system will be reset.





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 30 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. 9) – Replace the batteries. (p. 9) – Check the ID settings for the main unit and the remote control. The remote control ID on the main unit may be changed after the main unit is reset. In this case, verify the remote control ID on the main unit, and set it again if needed. (p. 9)
Buttons do not work.	<ul style="list-style-type: none"> – Press and hold  on the front panel for more than 5 seconds, and release to reset this Player. – To completely reset this Player, unplug the power cable from the AC outlet for 10 seconds or more, 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 all the settings including Security settings (p. 32) of this Player to their default settings. After the power is turned off automatically, press  to turn on the power again.

■ 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) - With no disc inserted, or playback stopped, press and hold ▶ and ■ on the front panel simultaneously to set video resolution to the default value. - If a picture is still not output, press and hold ■ on the front panel for approximately 5 seconds to switch NTSC/PAL. - When set to Disc Native, a signal that is not compatible with the connected TV is output. Change the setting to output a signal that is compatible with the connected TV. (p. 34)
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 more than 5 seconds, and release to reset this Player.
Video is not output with the desired resolution.	<ul style="list-style-type: none"> - Set to the desired resolution. (p. 34)
Wide-screen 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. 33)
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"> - Check that the audio cable is connected correctly. (p. 10) - Turn the volume of TV or AV receiver up. - There is no sound during still mode, fast forward, and fast reverse. (p. 8) - 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. 35, p. 36)
Cannot hear the sound of PIP (secondary audio).	<ul style="list-style-type: none"> - Set Coaxial / Optical or HDMI to PCM/Reencode. (p. 35) - To hear secondary audio, press 2ND AUDIO. (p. 6) - Depending on the disc, you may need to set secondary audio on the top menu of the disc. (p. 8)

■ Network

Problem	Possible causes and solutions
Cannot connect to the Internet.	<ul style="list-style-type: none"> - When connecting to the Internet by selecting Wired in Connection Setting, connect the Network cable properly. (p. 32) - Turn on the connected equipment, such as broadband router or modem. - Connect the broadband router and/or modem properly. - If Wireless is selected in Connection Setting, and when you want to connect to the Internet using Ethernet, select Wired properly. (p. 32) - Properly select Wireless in Connection Setting when you want to connect to the Internet using a wireless LAN. (p. 32)

Problem	Possible causes and solutions
Cannot download BD-Live contents.	<ul style="list-style-type: none"> - Verify that this Player can connect to the Internet normally. Refer to “Connection Test”. (p. 33) - Connect USB memory device properly. Check that the USB memory device is connected to the USB connector of this Player. (p. 16) - Check if the Blu-ray Disc supports BD-Live. - Connect the USB memory device formatted in FAT16, FAT32, or NTFS. - 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. 31) - Refer to the supplied user’s manual of the disc or consult the disc manufacturer.
Cannot detect the DLNA server.	<ul style="list-style-type: none"> - Verify that this Player can connect to the network normally. Refer to “Connection Test”. (p. 33) - 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. - Depending on the DLNA server, the Player may need to be permitted from the server. - Depending on the DLNA server, it needs to change a firewall setting.
Cannot play the file on the DLNA 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.
Cannot connect to the Internet via Wireless LAN.	<ul style="list-style-type: none"> - Make sure that the wireless LAN router is turned on. - Depending on the surrounding environment, such as the wall material, radio wave receiving condition, or obstacles between the Player and the wireless LAN router, the communication distance may be shortened. Move the Player and the wireless LAN router closer to each other. - Devices that use a 2.4 GHz frequency band, such as a microwave, Bluetooth, or digital cordless device, may interrupt the communication. Move the Player away from such devices, or turn off such devices. - If the Internet connection using a wireless LAN is still not successful by the above two solutions, try using Ethernet by selecting Wired in Connection Setting. (p. 32)
Wireless network is not found or distorted.	<ul style="list-style-type: none"> - If Scan is performed but the wireless network is not found or distorted, press RETURN to return to the previous screen, and try Scan again. If the desired wireless router is still not detected, press RETURN to select Manual. - Make sure that the wireless network is not disturbed by microwave ovens, DECT phones, or other neighboring Wi-Fi devices. - Microwave ovens, DECT phones or other wireless devices in your neighborhood might disturb the wireless network. Turn off these devices. - Make sure that the firewalls in your network allow access to the wireless connection of this Player. - If the wireless network does not work properly in your home, try the wired network connection.

■ 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
Unsupported 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 for Blu-ray Disc/DVD videos” (p. 3).
Network has FAILED.	- This Player cannot be connected to the network. Check connection (p. 16) and Network setting (p. 32).
Network is OK, proxy has FAILED.	- This Player cannot be connected to the proxy server. See “Proxy Setting” (p. 33).
BD-Live connection is prohibited in SETUP menu.	- BD-Live connection is prohibited. See “BD-Live Connection” (p. 33).
Upgrade has failed for some reason!	- Upgrade is failed. Check if the upgrade file is corrupted or unreadable.
IP Setting is not valid! Please reset...	- The IP Setting entered is not valid. Enter the correct information again.

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 Blu-ray Disc 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) 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.

Blu-ray 3D™

Blu-ray 3D enables you to view full high definition 3D images.

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.

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.

DivX®

DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. 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 videos.

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.

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.

FLAC

FLAC (Free Lossless Audio Codec) is an open file format for lossless audio data compression. While inferior in compression rate to other lossy compressed audio formats, it can often provide higher audio quality.

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 Blu-ray 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 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 DVDs and Blu-ray Discs.

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	
[U.S.A. and Canada models]	AC 110–240 V, 60 Hz
[Central and South America model]	AC 110–240 V, 50/60 Hz
[Australia model]	AC 110–240 V, 50 Hz
[U.K., Europe and Russia model]	AC 110–240 V, 50 Hz
[China model]	AC 110–240 V, 50 Hz
[Asia model]	AC 110–240 V, 50/60 Hz
Power consumption (Normal)	20 W
Power consumption (Standby)	0.5 W or less
Dimensions (W × H × D, including protrusions)	435 × 86 × 257 mm (17-1/8 × 3-3/8 × 10-1/8 in)
Weight	2.8 kg (6.2 lbs.)

■ Audio performance


Audio output level (1 kHz, 0 dB)	
Blu-ray Disc/DVD/CD-DA	2 ± 0.3 V
Signal to noise ratio	
Blu-ray Disc/DVD/CD-DA	110 dB
Dynamic range	
Blu-ray Disc/DVD	105 dB
CD-DA	100 dB
Harmonic distortion (1 kHz)	
Blu-ray Disc/DVD/CD-DA	0.003%
Frequency Response	
Blu-ray Disc/DVD	4 Hz to 22 kHz (48 kHz Sampling) 4 Hz to 44 kHz (96 kHz Sampling)
CD-DA	4 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	Mixed 2 ch × 1
USB	Type A connector × 2
Wireless LAN	Standard: IEEE 802.11 b/g/n Frequency range: 2.4GHz band
Other equipment	Remote IN/OUT × 1 Ethernet × 1

Specifications are subject to change without notice.

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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.

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■ About Fusion

DirectFB Fusion kernel module: introduction and API

by Niels Roest

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■ About gcc libgcc, gcc libstdc++

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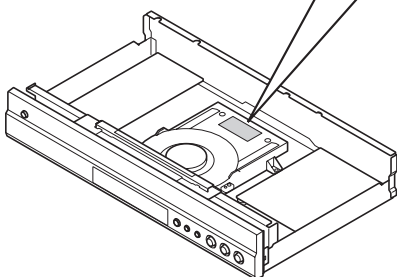
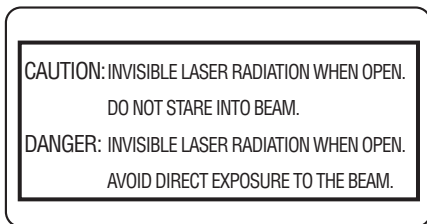
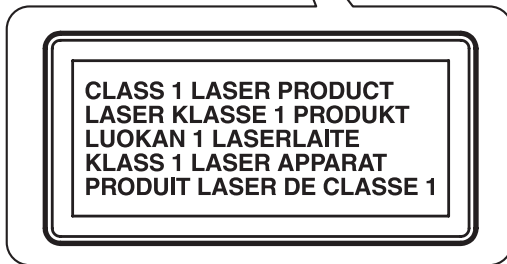
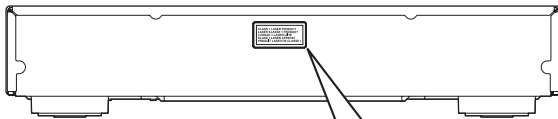
Class 1 LASER Product
Wave length: 790 nm (CDs)/658 nm (DVDs)/405 nm (BDs)
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Pb



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