

SONY®

4-418-506-11(1)

Blu-ray Disc™ / DVD Player

Operating Instructions

Hookups and Settings

Playback

Internet

Settings and Adjustments

Additional Information



BDP-S790

Download from www.Somanuals.com. All Manuals Search And Download.

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

The AC power cord must be changed only at a qualified service shop.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Blu-ray Disc/DVD player is harmful to eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.



This label is located on the laser protective housing inside the enclosure.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Precautions

- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- Install this unit so that the AC power cord can be unplugged from the wall socket immediately in the event of trouble.

Operation is subject to the following two conditions;
(1) this device may not cause interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation of the device.

FCC WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The shielded Interface cable (LAN cable) must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a

- particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Contains FCC ID : EW4DWMW069

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience

receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

For customers in the USA

If this product is not working properly, please call 1-866-909-7669.

Precautions

This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection cable shorter than 3 meters.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes.
- Do not install this player in a confined space, such as a bookshelf or similar unit.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not place the player outdoors, in vehicles, on ships, or on other vessels.
- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- Do not install the player in an inclined position. It is designed to be operated in a horizontal position only.
- Do not place metal objects in front of the front panel. It may limit reception of radio waves.
- Do not place the player in a place where medical equipment is in use. It may cause a malfunction of medical instruments.
- If you use a pacemaker or other medical device, consult your physician or the manufacturer of your medical device before using the wireless LAN function.
- Do not place heavy or unstable objects on the player.
- Do not place any objects other than discs on the disc tray. Doing so may cause damage to the player or the object.

- Take out any discs when you move the player. If you don't, the disc may be damaged.
- Disconnect the AC power cord and all other cables from the player when you move the player.

On power sources

- The player is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Disconnect the player from the wall outlet if you are not going to use the player for a long time. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- Observe following points to prevent the AC power cord being damaged. Do not use the AC power cord if it is damaged, as doing so may result in an electric shock or fire.
 - Do not pinch the AC power cord between the player and wall, shelf, etc.
 - Do not put anything heavy on the AC power cord or pull on the AC power cord itself.

On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, your ears and the speakers may be damaged when a peak level section is played.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

On cleaning discs, disc/lens cleaners

Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

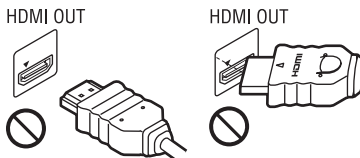
On replacement of parts

In the events that this player is repaired, repaired parts may be collected for reuse or recycling purposes.

On connecting to the HDMI OUT jack

Observe the following as improper handling may damage the HDMI OUT jack and the connector.

- Carefully align the HDMI OUT jack on the rear of the player and the HDMI connector by checking their shapes. Make sure the connector is not upside down or tilted.



- Be sure to disconnect the HDMI cable when moving the player.



- Hold the HDMI connector straight when connecting or disconnecting the HDMI cable. Do not twist or force the HDMI connector into the HDMI OUT jack.

On watching 3D video images

Some people may experience discomfort (such as eye strain, fatigue, or nausea) while watching 3D video images. Sony recommends that all viewers take regular breaks while watching 3D video images. The length and frequency of necessary breaks will vary from person to person. You must decide what works best. If you experience any discomfort, you should stop watching the 3D video images until the discomfort ends; consult a doctor if you believe necessary. You should also review (i) the instruction manual and/or the caution message of any other device used with, or Blu-ray Disc contents played with this product and (ii) our website (<http://support.sony.com/>) for the latest information. 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 listed above.

IMPORTANT NOTICE

Caution: This player is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Plasma display panel televisions and projection televisions are susceptible to this.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Copy Protection

Please be advised of the advanced content protection systems used in both Blu-ray Disc™ and DVD media. These systems, called AACS (Advanced Access Content System) and CSS (Content Scramble System), may contain some restrictions on playback, analog output, and other similar features. The operation of this product and the restrictions placed may vary depending on the date of purchase, as the governing board of the AACS may adopt or change its restriction rules after the time of purchase.

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.

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Opera Browser

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Settings and Adjustments

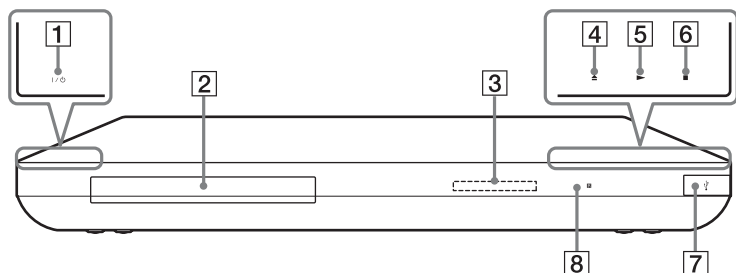
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Guide to Parts and Controls

Front panel



1 **I/O (on/standby)**

Turns on the player, or sets to standby mode.

2 **Disc tray**

3 **Front panel display**

▶, ||: Lights up during playback or pause.

↻: Lights up when enabling the repeat setting.

HD: Lights up when outputting 720p/1080i/1080p video signals.

4 **▲ (open/close)**

5 **▶ (play)**

6 **■ (stop)**

7 **↔ (USB) jack**

Connect a USB device to this jack.

8 **Remote sensor**

To lock the disc tray (Child Lock)

You can lock the disc tray to prevent it being opened by mistake.

When the player is turned on, hold down ▶ on the player for more than 10 seconds. The disc tray is locked or unlocked.

About soft-touch buttons/indicators

These buttons, 1, 4, 5 and 6, function when the soft-touch button indicators are lit.

You can turn on/off the indicators by setting [Dimmer] in the [System Settings] setup (page 35).

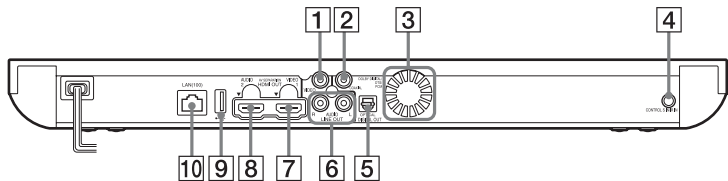


These buttons work when you touch them lightly. Do not press them with excessive force.



These buttons still work, even if you turn off the indicators by setting [Dimmer] to [Off].

Rear panel



1 LINE OUT (VIDEO) jack

2 DIGITAL OUT (COAXIAL) jack

3 Ventilation holes

4 CONTROL S IN / IR IN jack

If you have a CONTROL S-compatible Sony TV or AV amplifier (receiver), use a CONTROL S cable (not supplied) to connect to the CONTROL S (output) jack. Refer to the instruction manual supplied with your TV or AV amplifier (receiver).

5 DIGITAL OUT (OPTICAL) jack

6 LINE OUT (R-AUDIO-L) jacks

7 HDMI OUT 1 jack

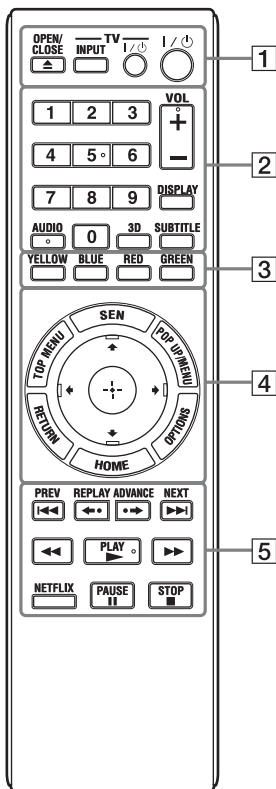
8 HDMI OUT 2 jack

9 (USB) jack

10 LAN (100) terminal

Remote

The available functions of the remote differ depending on the disc or the situation.



- Number 5, AUDIO, VOL +, and ► PLAY buttons have a tactile dot. Use the tactile dot as a reference when operating the player.
- Gray-colored buttons glow in the dark.

The player automatically returns to standby mode

If any button on the player or remote is not pressed for more than 30 minutes, the player automatically returns to standby mode.

1 ▲ OPEN/CLOSE

Opens or closes the disc tray.

-TV- INPUT

Switches between TV and other input sources.

-TV- I/⏻ (on/standby)

Turns on the TV, or sets to standby mode.

I/⏻ (on/standby)

Turns on the player, or sets to standby mode.

2 Number buttons (0 - 9)

Enters the title/chapter numbers, etc.

VOL +/-

Adjusts the TV volume.

DISPLAY (page 21)

Displays the playback and web browsing information on the screen.

AUDIO (page 34)

Selects the language track when multi-lingual tracks are recorded on BD-ROMs/DVD VIDEOS.

Selects the sound track on CDs.

3D (page 24)

Converts 2D content into simulated 3D content when connected to 3D-compatible devices.

SUBTITLE (page 34)

Selects the subtitle language when multi-lingual subtitles are recorded on BD-ROMs/DVD VIDEOS.

3 Color buttons (YELLOW/BLUE/RED/GREEN)

Shortcut keys for interactive functions.

4 TOP MENU

Opens or closes the BD's or DVD's Top Menu.

SEN

Accesses the "Sony Entertainment Network™" online service.

POP UP/MENU

Opens or closes the BD-ROM's Pop-up Menu, or the DVD's menu.

OPTIONS (page 24)

The options menu that can be selected appears on the screen.

HOME

Enters the player's home menu. Displays the wallpaper when pressed on the category icon of the home menu.

RETURN

Returns to the previous display.



Moves the highlight to select a displayed item.

Center button (ENTER)

Enters the selected item.

5 I◀◀ PREV/NEXT ▶▶ I

Skips to the previous/next chapter, track, or file.

◀• REPLAY/ADVANCE •▶

Briefly replays the current scenes for 10 seconds/briefly fast forwards the current scenes for 15 seconds.

◀◀/▶▶ (fast/slow/freeze frame)

- Fast reverses/fast forwards the disc when pressed during playback.

Each time you press the button during playback of videos, the search speed changes.

- Plays in slow motion, when pressed for more than one second in pause mode.
- Plays one frame at a time, when pressed briefly in pause mode.



During Blu-ray 3D Disc playback, slow-motion reverse play and single-frame reverse play are not available.

▶ PLAY

Starts or re-starts playback.

NETFLIX

Accesses the "NETFLIX" online service.

II PAUSE

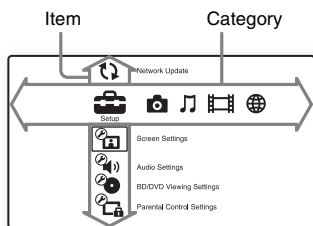
Pauses or re-starts playback.






■ STOP

Stops playback and remembers the stop point (resume point). The resume point for a title/track is the last point you played or the last photo for a photo folder.

Home menu display

The home menu appears when you press HOME. Select a category using ←/→. Select an item using ↑/↓, then press ENTER.



-  [Setup]: Adjusts the player settings.
-  [Photo]: Displays photos.
-  [Music]: Plays music.
-  [Video]: Plays videos.
-  [Network]: Displays network items.

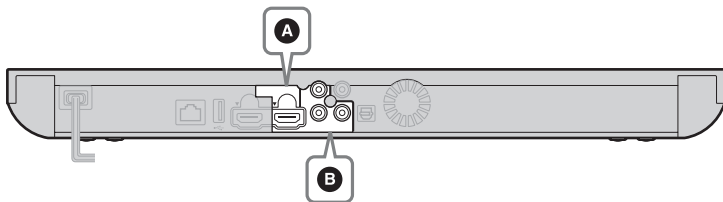
Step 1: Connecting the Player

Do not connect the AC power cord until you have made all the other connections. For supplied accessories, see “Supplied accessories” (page 43).

Connecting to your TV

Select one of the following connection methods according to the input jacks on your TV.

Match the color of the plug to that of the jack when connecting.



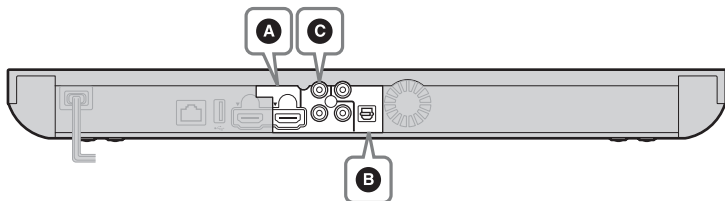
| | | |
|-----------------|---|-------------------------|
| <p>A</p> | <p>High Speed HDMI Cable*1 (not supplied)</p> | <p>High quality</p> |
| <p>B</p> | <p>Audio/video cable (supplied)</p> | <p>Standard quality</p> |



Do not connect the player through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

Connecting to your AV amplifier (receiver)

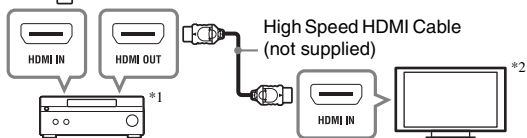
Select one of the following connection methods according to the input jacks on your AV amplifier (receiver). When you select **A** or **B**, make the appropriate settings in the [Audio Settings] setup (page 33).



A

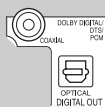


High Speed HDMI Cable*¹
(not supplied)

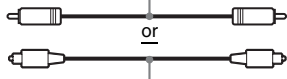


→ Set [BD Audio MIX Setting] (page 33).

B



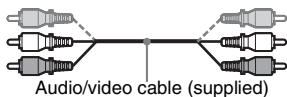
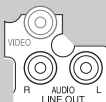
Coaxial digital cable (not supplied)



Optical digital cable (not supplied)

→ Set [Dolby Digital]^{*3}/[DTS]^{*4} (page 34).

C

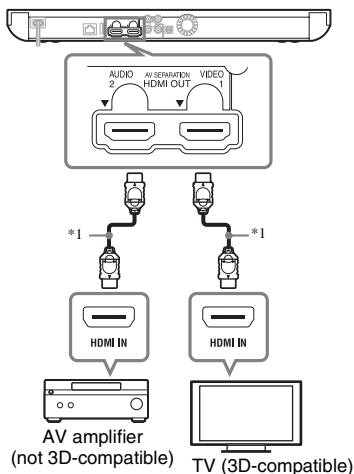


About AV Separation Mode

This mode allows you to output video signals via the HDMI OUT 1 jack and audio signals via the HDMI OUT 2 jack separately (page 36).

Example:

The illustration below shows an example where a TV (3D-compatible) and an AV amplifier (not 3D-compatible) are connected.



*1 Use a High Speed HDMI Cable. We recommend using a Sony HDMI cable (available at your nearest Sony dealer or local authorized Sony service facility, with part number 1-834-169-22, as of February 2012, or equivalent).

*2 To enjoy 3D viewing, connect a TV and an AV amplifier that are both 3D-compatible.

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

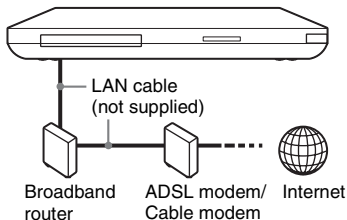
*4 Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other

U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

Step 2: Preparing for Network Connection

Wired Setup

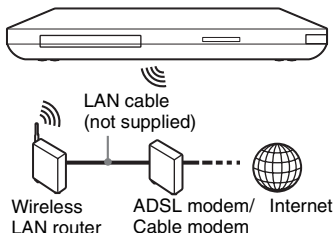
Use a LAN cable to connect to the LAN (100) terminal on the player.



Using a shielded interface cable (LAN cable) is recommended.

Wireless Setup

Use the wireless LAN that is built into the player.



Use a wireless LAN router supporting 802.11b/g or 802.11b/g/n.

Before setting the network settings

When your wireless LAN router (access point) is Wi-Fi Protected Setup (WPS)-compatible, you can easily set the network settings with the WPS button. If not, check the following information in advance, and record it in the space provided below.

– The network name (SSID^{*1}) that identifies your network^{*2}.

SSID^{*1}:

– If security is set on your wireless network, the security key (WEP key, WPA key)^{*2}.

Security key:

^{*1} SSID (Service Set Identifier) is a name that identifies a particular wireless network.

^{*2} You need to check the setting of your wireless LAN router for information about the SSID and security key.

For details:

– visit the following website:

<http://www.sony.com/bluraysupport/>

– refer to the instruction manual supplied with the wireless LAN router

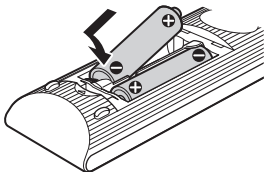
– consult the manufacturer of the wireless LAN router.

Step 3: Easy Setup

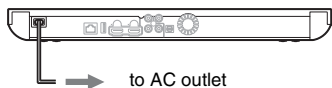
When turned on for the first time

Wait for a short while before the player turns on and starts [Easy Setup].

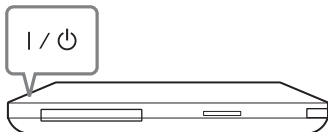
- 1** Insert two Size AA (R6) batteries by matching the \oplus and \ominus ends on the batteries to the markings inside the battery compartment.



- 2** Plug the player into the AC outlet.



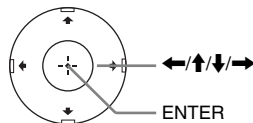
- 3** Press I/⏻ to turn on the player.



- 4** Turn on the TV, then switch the input selector on your TV so that the signal from the player appears on your TV screen.

- 5** Perform [Easy Setup].

Follow the on-screen instructions to make the basic settings using $\leftarrow/\uparrow/\downarrow/\rightarrow$ and ENTER on the remote.

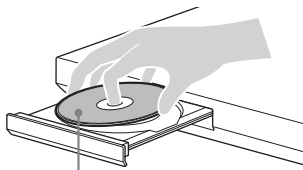


Playing a Disc

For playable discs, see “Playable discs” (page 43).

1 Switch the input selector on your TV so that the signal from the player appears on your TV screen.




2 Press **▲ OPEN/CLOSE**, and place a disc on the disc tray.



Playing side facing down

3 Press **▲ OPEN/CLOSE** to close the disc tray.

Playback starts.

If playback does not start automatically, select **●** in the  [Video],  [Music], or  [Photo] category, and press ENTER.

Enjoying BONUSVIEW/BD-LIVE

Some BD-ROMs with the “BD-LIVE” logo* have bonus content and other data that can be downloaded for enjoyment.

* 

1 Connect a USB memory to the USB jack on the rear of the player (page 11).

As your local storage, use a 1 GB or larger USB memory.


2 Prepare for BD-LIVE (BD-LIVE only).

- Connect the player to a network (page 18).
- Set [BD Internet Connection] to [Allow] (page 35).

3 Insert a BD-ROM with BONUSVIEW/BD-LIVE.

The operation method differs depending on the disc. Refer to the instruction manual supplied with the disc.



To delete data in the USB memory, select [Erase BD Data] in the  [Video], and press ENTER. All data stored in the buda folder will be erased.

Enjoying Blu-ray 3D

You can enjoy a Blu-ray 3D Disc with the “Blu-ray 3D” logo*.



1 Prepare for Blu-ray 3D Disc playback.

- Connect the player to your 3D-compatible devices using a High Speed HDMI cable.
- Set [3D Output Setting] and [TV Screen Size Setting for 3D] in the [Screen Settings] setup (page 32).

2 Insert a Blu-ray 3D Disc.

The operation method differs depending on the disc. Refer to the instruction manual supplied with the disc.

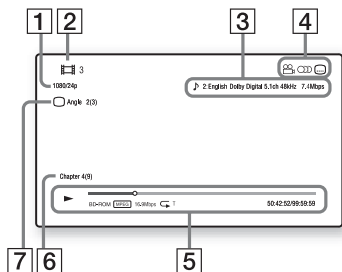


Refer also to the instruction manuals supplied with your TV and the connected device.

Displaying the play information

You can check playback information, etc., by pressing DISPLAY. The displayed information differs depending on the disc type and player status.

Example: when playing a BD-ROM



- 1 Output resolution/Video frequency
- 2 Title number or name
- 3 The currently selected audio setting
- 4 Available functions (📷 angle, 🎧 audio, 📄 subtitle)

- 5 Playback information
Displays the Play mode, Playing status bar, Disc type, Video codec, Bitrate, Repeat type, Elapsed time, and Total playing time.
- 6 Chapter number
- 7 The currently selected angle

Playing from a USB Device

You can play video/music/photo files on the connected USB device. For playable USB devices, see “Playable types of files” (page 44).

- 1 **Connect the USB device to the USB jack on the player (page 10).**
Refer to the instruction manual supplied with the USB device before connecting.
- 2 Select 📺 [Video], 🎵 [Music], or 📷 [Photo] on the home menu using ⬅️/➡️.
- 3 Select 🗂️ [USB device (front)] using ⬆️/⬆️, and press ENTER.

Playing via a Network

Enjoying Sony Entertainment Network (SEN)

Serves as a gateway delivering the selected Internet content and a variety of on-demand entertainment straight to your player.



Some Internet content requires registration via a PC before it can be played.

For further details, visit the following website:

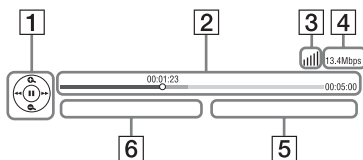
<http://www.sony.com/bluraysupport/>

- 1** Connect the player to a network (page 18).
- 2** Press SEN.
- 3** Select the Internet content and a variety of on-demand entertainment using $\leftarrow/\uparrow/\downarrow/\rightarrow$, and press ENTER.

To use the control panel during video streaming



The control panel appears when a video file starts playing. The displayed items may differ depending on the Internet content provider.

To display again, press DISPLAY.



1 Control display
Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ or ENTER for playback operations.

2 Playing status bar
Status bar, Cursor indicating the current position, Playing time, Duration of the video file

3 Network condition
 indicates the signal strength for wireless connection.
 indicates the wired connection.

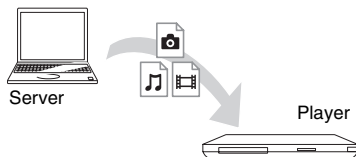
4 Network transmission speed

5 The next video file name

6 The currently selected video file name

Playing files on a Home Network (DLNA)

The player (DLNA Player) can play video/music/photo files stored on another DLNA-compatible product (DLNA Server) via a network.



1 Prepare for using DLNA.

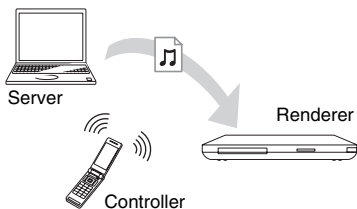
- Connect the player to a network (page 18).
- Prepare the other necessary DLNA-compatible products. Refer to the instruction manual supplied with the product.

2 Select the DLNA Server icon from  [Video],  [Music], or  [Photo] on the home menu.

3 Select the file you want to play using **↑/↓**, and press **ENTER**.

To control the player using another product (Renderer)

When you play files from a DLNA Server on the player, you can use a DLNA Controller-compatible product (a phone, etc.) to control playback.

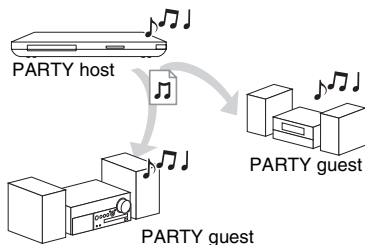


Refer to the instruction manual supplied with the DLNA Controller.

Playing the same music in different rooms (PARTY STREAMING)

You can play music files on the player (PARTY host) in other rooms simultaneously through Sony products (PARTY guest) which are compatible

with DLNA and the PARTY STREAMING function, or vice versa.





1 Prepare for PARTY STREAMING.

- Connect the player to a network (page 18).
- Connect the products which are compatible with the PARTY STREAMING function to a network.

2 Select a track in [Music] on the home menu.

3 Select [Start PARTY] from the options menu.

To join in a PARTY (for the PARTY guest only)

Select  [PARTY] in  [Music], then select the PARTY host device icon.

To close the PARTY







Select [Close PARTY] from the options menu.



The sale and lineup of products that are compatible with the PARTY STREAMING function differ depending on the area.

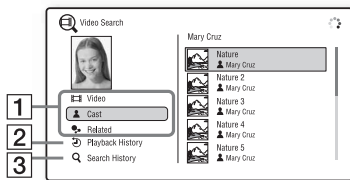
Searching for the video/ music information

You can acquire content information based on Gracenote technology and search for the related information.

- 1 **Connect the player to a network (page 18).**
- 2 **Insert a disc you want to search.**
 - Video: For a BD-ROM or DVD-ROM only
 - Music: For a CD-DA only
- 3 **Select  [Video] or  [Music] using /→.**
- 4 **Select  [Video Search] or  [Music Search] using /↓, and press ENTER.**

The content information is displayed.

Example: List of the selected cast's works



- 1 **Content details**
Displays a list of related information, such as title, cast, track, or artist.
- 2 **Playback History**
Displays a title in playback history of a BD-ROM/DVD-ROM/CD-DA.
- 3 **Search History**
Displays a list of search history.

To search for further related information

Select an item in the lists, then select the service for searching.

Available Options

Various settings and playback operations are available by pressing OPTIONS. The available items differ depending on the situation.

Common options

| Item | Details |
|---------------------|--|
| Repeat Setting | Sets the repeat mode. |
| 3D Menu | <ul style="list-style-type: none">• Simulated 3D: Adjusts the simulated 3D effect.• 3D Depth Adjustment: Adjusts the depth of 3D image. |
| Play/Stop | Starts or stops the playback. |
| Play from beginning | Plays the item from the beginning. |

[Video] only

| Item | Details |
|-------------------|--|
| 3D Output Setting | Sets whether or not to output 3D video automatically. |
| A/V SYNC | Adjusts the gap between picture and sound, by delaying the sound output in relation to the picture output (0 to 120 milliseconds). |

| Item | Details |
|-----------------|---|
| Video Settings | <ul style="list-style-type: none"> • Picture Quality Mode: Selects the picture settings. • Texture Remaster: Adjusts the sharpness and detail of the edges. • Super Resolution: Improves the resolution. • Smoothing: Reduces on-screen banding by smoothing gradations on flat areas. • Contrast Remaster: Automatically arranges the black and white levels so that the screen is not too dark and the image is modulated. • Clear Black: Adjusts the display of the dark elements of the image. All shading is not suppressed; it allows beautifully reproduced black tones. |
| Pause | Pauses the playback. |
| Top Menu | Displays the BD's or DVD's Top Menu. |
| Menu/Popup Menu | Displays the BD-ROM's Pop-up Menu or DVD's menu. |
| Title Search | Searches for a title on BD-ROMs/DVD VIDEOS and starts playback from the beginning. |
| Chapter Search | Searches for a chapter and starts playback from the beginning. |

| Item | Details |
|-------------------|--|
| Angle | Switches to other viewing angles when multi-angles are recorded on BD-ROMs/DVD VIDEOS. |
| IP Content NR Pro | Adjusts the picture quality of Internet content. |
| Video Search | Displays information on the BD-ROM/DVD-ROM based on Gracenote technology. |

♪ [Music] only

| Item | Details |
|-------------------|--|
| Add Slideshow BGM | Registers music files in the USB memory as slideshow background music (BGM). |
| Start PARTY | Starts a PARTY with the selected source. This item may not appear, depending on the source. |
| Leave PARTY | Leaves from a PARTY which the player is participating in. The PARTY STREAMING function continues among other participating products. |
| Close PARTY | Closes a PARTY which the player is participating in. The PARTY STREAMING function ends for all other participating products. |
| Music Search | Displays information on the CD-DA based on Gracenote technology. |

 [Photo] only

| Item | Details |
|------------------|--|
| Slideshow Speed | Changes the slideshow speed. |
| Slideshow Effect | Sets the effect for slideshows. |
| Slideshow BGM | <ul style="list-style-type: none">• Off: Turns off the function.• My Music from USB: Sets the music files registered in [Add Slideshow BGM].• Play from Music CD: Sets the tracks in CD-DAs. |
| Change Display | Switches between [Grid View] and [List View]. |
| Slideshow | Plays a slideshow. |
| Rotate Left | Rotates the photo counterclockwise by 90 degrees. |
| Rotate Right | Rotates the photo clockwise by 90 degrees. |

Browsing Websites

You can connect to the Internet and enjoy websites.

- 1 Connect the player to a network (page 18).**
- 2 Select [Network] on the home menu using ←/→.**
- 3 Select [Internet Browser] using ↑/↓, and press ENTER.**



Some websites use functions which this browser does not support. Some websites may not be displayed correctly, or may not function.

To enter a URL

Select [URL entry] from the options menu. Enter the URL using the software keyboard, then select [Enter].

To set the default start page

While displaying the page you want to set, select [Set as start page] from the options menu.

To return to the previous page

Select [Previous page] from the options menu.

When the previous page does not appear even if you select [Previous page], select [Window List] from the options menu and select the page you want to return to from the list.

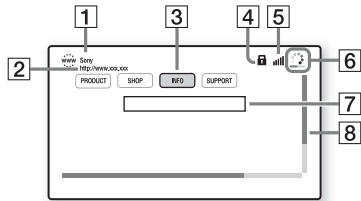
To quit the Internet browser

Press HOME.

Internet browser display

You can check the website information by pressing DISPLAY.

The display information differs depending on the website and page status.



- 1 Page title**
- 2 Page address**
- 3 Cursor**
To view a linked site, press ←/↑/↓/→ to move the cursor, and press ENTER.
- 4 SSL icon**
Appears when the website is secured.
- 5 Signal strength indicator (wireless network connection only)**
- 6 Progress bar/Loading icon**
Appears when the page is being read, or during file download/transfer.
- 7 Text input field**
Press ENTER and select [Input] from the options menu to display the software keyboard.

- 8** Scroll bar
Press ←/↑/↓/→ to move the page display.

Available options

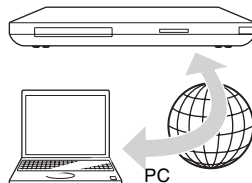
Various settings and operations are available by pressing **OPTIONS**. The available items differ depending on the situation.

| Item | Details |
|---------------|--|
| Browser Setup | <ul style="list-style-type: none"> • Zoom: Increases or decreases the size of the displayed contents. • JavaScript Setup: Enables or disables JavaScript. • Cookie Setup: Sets whether or not to accept cookies. • SSL Alarm Display: Enables or disables SSL. |
| Input | Displays the software keyboard to enter characters while browsing a website. |
| Break | Moves the cursor to the next line in the text input field. |
| Delete | Erases one character on the left side of the cursor during text input. |
| Window List | Displays a list of currently opened windows of website. Allows you to return to a previously displayed website by selecting the window. |
| Bookmark List | Displays the bookmark list. |

| Item | Details |
|-------------------------|--|
| URL entry | Allows you to enter a URL when the software keyboard is displayed. |
| Previous page/Next page | Moves to the previous/next page. |
| Cancel loading | Stops loading a page. |
| Reload | Reloads the same page. |
| Add to Bookmark | Adds the currently displayed website to the bookmark list. |
| Set as start page | Sets the currently displayed website as the default start page. |
| Open in new window | Opens a link in a new window. |
| Character encoding | Sets the character code. |
| Display certificate | View server certificates sent from pages that support SSL. |

Enjoying Skype

Skype is a communication software using the Internet. You can enjoy Skype-to-Skype video calls/voice calls for free with the player.



1 Prepare for Skype.

- Connect the player to a network (page 18).
- Connect the web camera with microphone to the USB jack (page 10).

2 Select [Network] on the home menu using / .

3 Select [Skype] using , , and press ENTER.

When you start Skype for the first time, follow the on-screen instructions and sign in to use Skype. If you do not have your own account, create one.

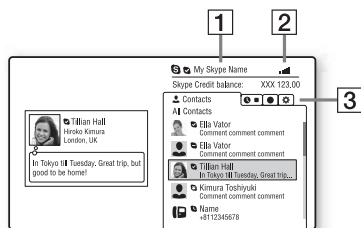


For information about available web cameras, visit the following website:

<http://www.sony.com/bluraysupport/>

Using the Skype menu

After signing-in, you can make/receive a call or make Skype settings.



- 1 Your Skype name
- 2 Signal strength indicator (wireless network connection only)

3 Tab area

- Contacts: Displays the contacts to call.
- History: Displays the call history.
- Tools: Enables useful functions such as contact search.
- Settings

To make a call

Select the contact icon you want to call in the Skype menu, and press ENTER.

To receive a call


Activate Skype and sign in.

To quit Skype

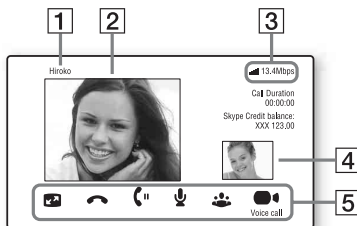
Press HOME.

Once you sign in, your password will be saved in the player when you quit Skype. To delete your password, sign out of Skype before quitting.

To sign in using another account

Select [Sign Out] from the options menu. Select  on the home menu, and follow the on-screen instructions.

Skype display



- 1 Contact name
- 2 Video of the contact (for video calls only)


- 3 Signal strength indicator/Network transmission speed (wireless network connection only)
- 4 Video of yourself (for video calls only)
- 5 Available buttons
The available buttons differ depending on the situation.
 - Full screen/Window screen: Changes the display mode.
 - Hang Up
 - Hold/Resume
 - Mute/Unmute
 - Start My Video/Stop My Video: Displays/hides the video of yourself.
 - Voice call/Video call

Available options


Various settings and operations are available by pressing **OPTIONS**. The available items differ depending on the situation.






| Item | Details |
|----------------|--|
| Change Display | Changes the display for contact/history. |
| Change Status | Changes the Skype status. |
| Sign Out | Exits Skype. |
| About Skype | Displays the copyright screen. |
| Help | Displays the Skype help. |






Using the Settings Displays

Select  [Setup] on the home menu when you need to change the settings of the player.

The default settings are underlined.

- 1 Select  [Setup] on the home menu using \leftarrow/\rightarrow .
- 2 Select the setup category icon using \uparrow/\downarrow , and press ENTER.

| Icon | Explanation |
|---|--|
|  | Network Update (page 31) Updates the software of the player. |
|  | Screen Settings (page 32) Makes the video settings according to the type of connecting jacks. |
|  | Audio Settings (page 33) Makes the audio settings according to the type of connecting jacks. |
|  | BD/DVD Viewing Settings (page 34) Makes detailed settings for BD/DVD playback. |
|  | Parental Control Settings (page 35) Makes detailed settings for the Parental Control function. |

| Icon | Explanation |
|---|--|
|  | Music Settings (page 35) Makes detailed settings for Super Audio CD playback. |
|  | System Settings (page 35) Makes the player-related settings. |
|  | Network Settings (page 36) Makes detailed settings for the Internet and network. |
|  | Easy Setup (page 37) Re-runs the Easy Setup to make the basic settings. |
|  | Resetting (page 37) Resets the player to the factory settings. |

Network Update

Select [OK] to update the player's software via the network.



- We recommend the network update every 2 months or so.
- For information about update functions, visit the following website:
<http://www.sony.com/blu-raysupport/>



Screen Settings

3D Output Setting

Auto: Normally select this.

Off: Select this to display all content in 2D.



If you enjoy 4K/24p 3D contents, set to [Off] in [3D Output Setting].

TV Screen Size Setting for 3D

Sets the screen size of your 3D-compatible TV.

TV Type

16:9: Select this when connecting to a wide-screen TV or a TV with a wide mode function.

4:3: Select this when connecting to a 4:3 screen TV without a wide mode function.

Screen Format

Full: Select this when connecting to a TV with a wide mode function. Displays a 4:3 screen picture in 16:9 aspect ratio, even on a wide-screen TV.

Normal: Changes the picture size to fit the screen size with the original picture aspect ratio.

DVD Aspect Ratio

Letter Box: Displays a wide picture with black bands on the top and bottom.



Pan & Scan: Displays a full-height picture on the entire screen, with trimmed sides.



Cinema Conversion Mode

Auto: Normally select this. The player automatically detects whether the material is video-based or film-based, and switches to the appropriate conversion method.

Video: The conversion method suited for video-based material will always be selected, regardless of the material.

Output Video Format

HDMI: Normally select [Auto]. Select [Original Resolution] to output the resolution recorded on the disc. When the resolution is lower than the SD resolution, it is scaled up to the SD resolution.

Video: Automatically sets the lowest resolution.

BD-ROM 24p Output

Auto: Outputs 1080/24p or 4K/24p video signals only if you connect a 1080/24p or 4K/24p-compatible TV with the HDMI OUT jack.

On: Select this if your TV is compatible with 1080/24p or 4K/24p video signals.

Off: Select this if your TV is not compatible with 1080/24p or 4K/24p video signals.

DVD-ROM 24p Output

Auto: Outputs 1080/24p or 4K/24p video signals only if you connect a 1080/24p or 4K/24p-compatible TV with the HDMI OUT jack.

Off: Select this if your TV is not compatible with 1080/24p or 4K/24p video signals.

4K Output

Auto: Outputs 4K/24p video signals automatically if you connect a 4K/24p-compatible device and make the appropriate settings in [BD-ROM 24p Output] or [DVD-ROM 24p Output], and also outputs 4K/24p photo images if you play 2D photo files.

Off: Turns off the function.

YCbCr/RGB (HDMI)

Auto: Automatically detects the connected TV type, and switches to the matching color setting.

YCbCr (4:2:2): Outputs YCbCr 4:2:2 video signals.

YCbCr (4:4:4): Outputs YCbCr 4:4:4 video signals.

RGB: Outputs RGB video signals.

HDMI Deep Color Output

Auto: Normally select this.

16bit/12bit/10bit: Outputs 16bit/12bit/10bit video signals when the connected TV is compatible with Deep Color.

Off: Select this when the picture is unstable or colors appear unnatural.

SBM (Super Bit Mapping)

On: Smooths the gradation of video signals output from the HDMI OUT jack.

Off: Select this when outputting distorted video signals or unnatural color.

Pause Mode

Auto: Normally select this. Dynamic moving pictures appear without blurring.

Frame: Displays static pictures at high resolution.



Audio Settings

Audio (HDMI)

Auto: Normally select this. Outputs audio signals according to the status of the connected HDMI device.

PCM: Outputs PCM signals from the HDMI OUT jack.

DSD Output Mode

On: Outputs DSD signals from the HDMI OUT jack when playing a Super Audio CD. When [On] is selected, no signal is output from other jacks.

Off: Outputs PCM signals from the HDMI OUT jack when playing a Super Audio CD.

BD Audio MIX Setting

On: Outputs the audio obtained by mixing the interactive and secondary audio to the primary audio.

Off: Outputs the primary audio only. Select this to output HD audio signals to an AV amplifier (receiver).

Dolby Digital / DTS

Downmix PCM: Converts to output Linear PCM signals. Select this when connecting an audio device without a built-in Dolby Digital/DTS decoder.

Bitstream: Select this when connecting an audio device with a built-in Dolby Digital/DTS decoder.

DTS Neo:6

Cinema: Outputs the simulated multi-channel sound from 2 channel sources via the HDMI OUT jack according to the capability of the connected device using [DTS Neo:6 Cinema] mode.

Music: Outputs the simulated multi-channel sound from 2 channel sources via the HDMI OUT jack according to the capability of the connected device using [DTS Neo:6 Music] mode.

Off: Outputs the sound with its original number of channels via the HDMI OUT jack.

Audio DRC

Auto: Performs playback at the dynamic range specified by the disc (BD-ROM only). Other discs are played back at the [On] level.

On: Performs playback at a standard compression level.

Off: No compression works. A more dynamic sound is produced.

Downmix

Surround: Outputs audio signals with surround effects. Select this when connecting an audio device that supports Dolby Surround (Pro Logic) or DTS Neo:6.

Stereo: Outputs audio signals without surround effects. Select this when connecting an audio device that does not support Dolby Surround (Pro Logic) or DTS Neo:6.

BD/DVD Viewing Settings

BD/DVD Menu Language

Selects the default menu language for BD-ROMs or DVD VIDEOS. When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language code list” (page 47).

Audio Language

Selects the default track language for BD-ROMs or DVD VIDEOS. When you select [Original], the language given priority in the disc is selected.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language code list” (page 47).

Subtitle Language

Selects the default subtitle language for BD-ROMs or DVD VIDEOS. When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language code list” (page 47).

BD Hybrid Disc Playback Layer

BD: Plays BD layer.

DVD/CD: Plays DVD or CD layer.

BD Internet Connection

Allow: Normally select this.

Do not allow: Prohibits Internet connection.

Parental Control Settings

Password

Sets or changes the password for the Parental Control function. A password allows you to set a restriction on BD-ROM or DVD VIDEO, and Internet video playback. If necessary, you can differentiate the restriction levels for BD-ROMs, DVD VIDEOS, and Internet videos.

Parental Control Area Code

Playback of some BD-ROMs, DVD VIDEOS, or Internet videos can be limited according to the geographic area. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

BD Parental Control/DVD Parental Control/Internet Video Parental Control

By setting Parental Control, scenes can be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

Internet Video Unrated

Allow: Allows the playback of unrated Internet videos.

Block: Blocks the playback of unrated Internet videos.

Music Settings

Super Audio CD Playback Layer

Super Audio CD: Plays the Super Audio CD layer.

CD: Plays the CD layer.

Super Audio CD Playback Channel

DSD 2ch: Plays the 2ch area.

DSD Multi: Plays the multi-channel area.

System Settings

OSD Language

Selects your language for the player on-screen displays.

Dimmer

Bright: Bright lighting.

Dark: Low lighting.

Off: Turns off the lighting during playback. Low lighting other than during playback.

Control for HDMI

On: The following BRAVIA Sync features are available:

- One-Touch Play
- System Power-Off
- Language Follow

Off: Turns off the function.



For details, refer to the instruction manual supplied with the TV or components. To enable the BRAVIA Sync features, connect your TV via the HDMI OUT 1 jack.

HDMI: Linked to TV-off

On: Automatically turns off the player and HDMI-compatible components when the connected TV enters standby mode (BRAVIA Sync).

Off: Turns off the function.

AV Separation Output Mode

On: Outputs video signals via the HDMI OUT 1 jack and audio signals via the HDMI OUT 2 jack separately.

Off: Outputs video signals and audio signals simultaneously via both the HDMI OUT 1 jack and the HDMI OUT 2 jack.

Quick Start Mode

On: Shortens the startup time when turning on the player.

Off: Reduces standby power consumption.

Auto Display

On: Automatically displays information on the screen when changing the viewing titles, picture modes, audio signals, etc.

Off: Displays information only when you press DISPLAY.

Screen Saver

On: Turns on the screen saver function. The screen saver image appears when you do not use the player for more than 10 minutes while an on-screen display is displayed.

Off: Turns off the function.

Software Update Notification

On: Sets the player to inform you of newer software version information (page 31).

Off: Turns off the function.

Gracenote Settings

Auto: Automatically downloads disc information when disc playback stops. Connect to the network for downloading.

Manual: Downloads the disc information when [Video Search] or [Music Search] is selected.

System Information

Displays the player's software version information and the MAC address.

Software License Information

Displays the Software License Information.



Network Settings

Internet Settings

Connect the player to the network beforehand. For details, see "Step 2: Preparing for Network Connection" (page 18).

Wired Setup: Select this when you connect to a broadband router using a LAN cable.

Wireless Setup(built-in): Select this when you use the wireless LAN that is built into the player for wireless network connection.

View Network Status: Displays the current network status.



For further details, visit the following website and check the FAQ contents:

<http://www.sony.com/bluraysupport/>

Network Connection Diagnostics

You can run the network diagnostic to check if the network connection has been made properly.

Connection Server Settings

Sets whether or not to display the connected server.

Renderer Options

Auto Access Permission: Sets whether or not to allow automatic access from a newly detected DLNA controller-compatible product.

Renderer Name: Displays the player's name as it is listed on other DLNA products on the network.

Renderer Access Control

Displays a list of DLNA controller-compatible products and sets whether or not each product is accessible via this player.

PARTY Auto Start

On: Starts a PARTY or joins an existing PARTY at the request of a networked product compatible with the PARTY STREAMING function.

Off: Turns off the function.

Media Remote Device Registration

Registers your "Media Remote" device.

Registered Media Remote Devices

Displays a list of your registered "Media Remote" devices.

Remote Start

On: Permits turning on the system from the "Media Remote" device.

Off: Turns off the function.



1·2·3 Easy Setup

Easy Initial Settings

Runs [Easy Initial Settings] to make the basic settings. Follow the on-screen instructions.

Easy Network Settings

Runs [Easy Network Settings] to make the basic network settings. Follow the on-screen instructions.



Resetting

Reset to Factory Default Settings

You can reset the player settings to the factory default by selecting the group of settings. All the settings within the group will be reset.

Initialize Personal Information

You can erase your personal information stored in the player.

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.

Picture

There is no picture or the picture is not output correctly.

- ➔ Check that all the connecting cables are securely connected (page 15).
- ➔ Switch the input selector on your TV to display the signal from the player.
- ➔ Reset the video output resolution to the lowest resolution by pressing **■** on the player for more than 10 seconds.
- ➔ For HDMI connections, try the following: ①Turn the player off and on again. ②Turn the connected equipment off and on again. ③Disconnect and then reconnect the HDMI cable.
- ➔ The HDMI OUT jack is connected to a DVI device that does not support copyright protection technology.
- ➔ For HDMI connections, check the [Output Video Format] settings in the [Screen Settings] setup (page 32).
- ➔ When the analog signals are also output, set [BD-ROM 24p Output] or [DVD-ROM 24p Output] to [Off] in the [Screen Settings] setup (page 32).
- ➔ For BD-ROMs, check the [BD-ROM 24p Output] setting in the [Screen Settings] setup (page 32).

The display language on the screen switches automatically when connected to the HDMI OUT jack.

- ➔ When [Control for HDMI] is set to [On] (page 35), the display language on the screen automatically switches according to the language setting of the connected TV (if you change the setting on your TV, etc.).

Sound

There is no sound or the sound is not output correctly.

- ➔ Check that all the connecting cables are securely connected (page 15).
- ➔ Switch the input selector on your AV amplifier (receiver) so that the audio signals of the player are output from your AV amplifier (receiver).
- ➔ If the audio signal does not come through the DIGITAL OUT (OPTICAL/COAXIAL)/HDMI OUT jack, check the audio settings (page 33).
- ➔ For HDMI connections, try the following: ①Turn the player off and on again. ②Turn the connected equipment off and on again. ③Disconnect and then reconnect the HDMI cable.
- ➔ For HDMI connections, if the player is connected to a TV through an AV amplifier (receiver), try connecting the HDMI cable directly to the TV. Refer also to the instruction manual supplied with the AV amplifier (receiver).
- ➔ There is no sound if you connect an AV amplifier to the HDMI OUT 1 jack, and set [AV Separation Output Mode] to [On] (page 36). Set [AV Separation Output Mode] to [Off], or connect the AV amplifier to the HDMI

OUT 2 jack (See “About AV Separation Mode” (page 17)).

- ➔ The HDMI OUT jack is connected to a DVI device. (DVI jacks do not accept audio signals.)
- ➔ The device connected to the HDMI OUT jack does not support the audio format of the player. Check the audio settings (page 33).

The HD Audio (Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio, and DTS-HD Master Audio) is not output by bitstream.

- ➔ Set [BD Audio MIX Setting] to [Off] in the [Audio Settings] setup (page 33).
- ➔ Check that the connected AV amplifier (receiver) is compatible with each HD Audio format.

The interactive audio is not output.

- ➔ Set [BD Audio MIX Setting] to [On] in the [Audio Settings] setup (page 33).

Disc

The disc does not play.

- ➔ The disc is dirty or skewed.
- ➔ The disc is upside down. Insert the disc with the playback side facing down.
- ➔ The disc has a format that cannot be played back by this player (page 43).
- ➔ The player cannot play a recorded disc that has not been correctly finalized.
- ➔ The region code on the BD or DVD does not match the player.

USB device

The player does not detect a USB device connected to the player.

- ➔ Make sure that the USB device is securely connected to the USB jack.
- ➔ Check if the USB device or a cable is damaged.
- ➔ Check if the USB device is on.
- ➔ If the USB device is connected via a USB hub, connect the USB device directly to the player.

SEN (Sony Entertainment Network)

The picture/sound is poor/certain programs display a loss of detail, especially during fast-motion or dark scenes.

- ➔ Picture/sound quality may be poor depending on Internet content providers.
- ➔ Picture/sound quality may be improved by changing the connection speed. We recommend a connection speed of at least 2.5 Mbps for standard definition video (10 Mbps for high definition video).
- ➔ Not all videos will contain sound.

The picture is small.

- ➔ Press **↑** to zoom in.

Skype

There is severe humming or noise.

- ➔ Set the volume of the connected TV lower.
- ➔ Try moving the web camera with microphone away from the speakers of the connected TV.

Network connection

The player cannot connect to the network.

- ➔ Check the network connection (page 18) and the network settings (page 36).

You cannot connect your PC to the Internet after [Wi-Fi Protected Setup (WPS)] is performed.

- ➔ The wireless settings of the router may change automatically if you use the Wi-Fi Protected Setup function before adjusting the settings of the router. In this case, change the wireless settings of your PC accordingly.

You cannot connect the player to the wireless LAN router.

- ➔ Check if the wireless LAN router is 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.

The desired wireless router is not shown in the wireless network list.

- ➔ Press RETURN to return to the previous screen, and try [Wireless Setup(built-in)] again. If the desired wireless router is still not detected, select [Manual registration].

The message [A new software version is available. Please go to the "Setup" section of the menu and select "Network update" to perform the update.] appears on the screen when turning the player on.

- ➔ See "Network Update" (page 31) to update the player to a newer software version.

You cannot start the PARTY STREAMING function.

- ➔ Check that [PARTY Auto Start] is set to [On] in [Network Settings] (page 37).

"Control for HDMI" (BRAVIA Sync)

The [Control for HDMI] function does not work (BRAVIA Sync).

- ➔ Check that your TV is connected via the HDMI OUT 1 jack. If your TV is connected via the HDMI OUT 2 jack, BRAVIA Sync is disabled.
- ➔ Check that [Control for HDMI] is set to [On] (page 35).
- ➔ If you change the HDMI connection, turn the player off and on again.

- ➔ If power failure occurs, set [Control for HDMI] to [Off], then set [Control for HDMI] to [On] (page 35).
- ➔ Check the following and refer to the instruction manual supplied with the component.
 - the connected component is compatible with the [Control for HDMI] function.
 - the connected component's setting for the [Control for HDMI] function is correct.
- ➔ When you connect the player to a TV through an AV amplifier (receiver),
 - if the AV amplifier (receiver) is not compatible with the [Control for HDMI] function, you may be unable to control the TV from the player.
 - if you change the HDMI connection, disconnect and reconnect the AC power cord, or a power failure occurs, try the following:
 - ① Switch the input selector of the AV amplifier (receiver) so that the picture from the player appears on the TV screen.
 - ② Set [Control for HDMI] to [Off], then set [Control for HDMI] to [On] (page 35). Refer to the instruction manual supplied with the AV amplifier (receiver).

The System Power-Off function does not work (BRAVIA Sync).

- ➔ Check that [Control for HDMI] and [HDMI: Linked to TV-off] are set to [On] (page 35).

Others

Playback does not start from the beginning of content.

- ➔ Press OPTIONS, and select [Play from beginning].

Playback does not start from the resume point where you last stopped playing.

- ➔ The resume point may be cleared from memory depending on the disc when
 - you open the disc tray.
 - you disconnect the USB device.
 - you play other content.
 - you turn off the player.

The disc tray does not open and “LOCK” or “D ON” appears on the front panel display.

- ➔ When “LOCK” appears, the player is locked. To cancel the Child Lock, hold down **▶** on the player until “UNLOCK” appears on the front panel display (page 10).
- ➔ When “D ON” appears, contact your Sony dealer or local authorized Sony service facility.

The disc tray does not open and you cannot remove the disc even after you press **▲**.

- ➔ Try the following:
 - ① Press down **▲** and **▶** on the player for more than 10 seconds, until the tray opens.
 - ② Remove the disc.
 - ③ When “OPEN” appears on the front panel display, press down **I/⏻** on the player for more than 10 seconds, until the player turns off.

“Exxxx” or “TEMP” appears on the front panel display.

- ➔ When “Exxxx” appears, contact your nearest Sony dealer or local authorized Sony service facility and give the error code.
- ➔ When “TEMP” appears, try the following: ①Check that the ventilation holes on the rear of the player are not blocked. ②Place the player in a location with adequate ventilation to prevent heat build-up in the player.

The player does not respond to any button.

- ➔ Moisture has condensed inside the player (page 4).
- ➔ Hold down **I/C** on the player for more than 10 seconds until the indicators on the front panel display turn off. If the player still does not respond to any button, disconnect then reconnect the AC power cord.

Specifications

System

Laser: Semiconductor laser

Inputs and outputs

(Jack name:

Jack type/Output level/Load impedance)

LINE OUT R-AUDIO-L:

Phono jack/2 V_{rms}/10 kilohms

DIGITAL OUT (OPTICAL):

Optical output jack/-18 dBm (wave length 660 nm)

DIGITAL OUT (COAXIAL):

Phono jack/0.5 V_{p-p}/75 ohms

HDMI OUT:

HDMI 19-pin standard connector

LINE OUT VIDEO:

Phono jack/1.0 V_{p-p}/75 ohms

LAN (100):

100BASE-TX Terminal

CONTROL S IN / IR IN:

Mini jack

USB:

USB jack Type A (For connecting a USB memory, memory card reader, digital still camera, and digital video camera)

Wireless

Wireless LAN standard:

IEEE802.11b/g/n

Frequency range:

2.4 GHz band: Channels 1-11

Modulation:

DS-SS Modem and OFDM Modem

General

Power requirements:

120 V AC, 60 Hz

Power consumption:

21 W

Dimensions (approx.):

430 mm × 193 mm × 42 mm
(17 in. × 7 5/8 in. × 1 11/16 in.)
(width/depth/height) incl. projecting parts

Mass (approx.):

1.9 kg (3 lb 3 oz)

Operating temperature:

5 °C to 35 °C (41 °F to 95 °F)

Operating humidity:

25 % to 80 %

Supplied accessories

Audio/video cable (phono plug x3) (1)

Remote commander (remote) (1)

Size AA (R6) batteries (2)

Specifications and design are subject to change without notice.

information, refer to the instruction manual supplied with the recording device.

Discs that cannot be played

- BDs with cartridge
- BDXLs
- DVD-RAMs
- HD DVDs
- DVD Audio discs
- PHOTO CDs
- Data part of CD-Extras
- Super VCDs
- Audio material side on DualDiscs
- A disc recorded in a color system other than NTSC, such as PAL (this player conforms to the NTSC color system).

Note on Discs

This product is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some of the music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard, therefore, these discs may not be playable by this product.

Note on playback operations of BDs/ DVDs

Some playback operations of BDs/ DVDs may be intentionally set by software producers. Since this player plays BDs/DVDs according to the disc contents the software producers designed, some playback features may not be available.

Note about double-layer BDs/DVDs

The playback pictures and sound may be momentarily interrupted when the layers switch.

Playable discs

| | |
|------------------------|--|
| Blu-ray Disc *1 | BD-ROM BD-R*2/BD-RE*2 |
| DVD *3 | DVD-ROM DVD-R/DVD-RW DVD+R/DVD+RW |
| CD *3 | CD-DA (Music CD) CD-ROM CD-R/CD-RW Super Audio CD |

*1 Since the Blu-ray Disc specifications are new and evolving, some discs may not be playable depending on the disc type and the version.

The audio output differs depending on the source, connected output jack, and selected audio settings.


*2 BD-RE: Ver.2.1

BD-R: Ver.1.1, 1.2, 1.3 including organic pigment type BD-R (LTH type)

The BD-Rs recorded on a PC cannot be played if postscripts are recordable.

*3 A CD or DVD disc will not play if it has not been correctly finalized. For more

Region code (BD-ROM/DVD VIDEO only)

Your player has a region code printed on the rear of the unit and will only play BD-ROMs/DVD VIDEOS labeled with identical region codes or .



Playable types of files

Video

| File format | Extensions |
|-------------------------------------|---|
| MPEG-1 Video/PS ^{*1*2} | “.mpg,” “.mpeg,” |
| MPEG-2 Video/PS, TS ^{*1*3} | “.m2ts,” “.mts” |
| MPEG-4 AVC ^{*1*2} | “.mkv,” “.mp4,” “.m4v,” “.m2ts,” “.mts” |
| WMV9 ^{*1*2} | “.wmv,” “.asf” |
| AVCHD ^{*2*4} | *5 |
| Xvid | “.avi” |

Music

| File format | Extensions |
|---------------------------------|------------|
| MP3 (MPEG-1 Audio Layer III) | “.mp3” |
| AAC/HE-AAC ^{*1*2*6} | “.m4a” |
| WMA9 Standard ^{*1*2*6} | “.wma” |
| LPCM | “.wav” |

Photo

| File format | Extensions |
|-------------|-----------------------|
| JPEG | “.jpg,” “.jpeg” |
| PNG | “.png ^{*7} ” |
| GIF | “.gif ^{*7} ” |
| MPO | “.mpo ^{*8} ” |

*1 The player does not play coded files such as DRM.

*2 The player does not play this file format on a DLNA server.

*3 The player can only play standard definition video on a DLNA server.

*4 The player can play AVCHD Ver. 2.0 (AVCHD 3D/Progressive) format files.

- *5 The player plays AVCHD format files that are recorded on a digital video camera, etc. The AVCHD format disc will not play if it has not been correctly finalized.
- *6 The player does not play coded files such as Lossless.
- *7 The player does not play animated PNG or animated GIF files.
- *8 For MPO files other than 3D, the key image or the first image is displayed.



- Some files may not play depending on the file format, file encoding, recording condition, or DLNA server condition.
- Some files recorded or edited on a PC may not play.
- The player can recognize the following files or folders in BDs, DVDs, CDs and USB devices:
 - up to folders in the 9th layer, including the root folder
 - up to 500 files/folders in a single layer
- The player can recognize the following files or folders stored in the DLNA server:
 - up to folders in the 19th layer
 - up to 999 files/folders in a single layer
- Some USB devices may not work with this player.
- The player can recognize Mass Storage Class (MSC) devices (such as flash memory or an HDD), Still Image Capture Device (SICD) class devices and 101 keyboard (front USB jack only).
- To avoid data corruption or damage to the USB memory or devices, turn the player off when connecting or removing the USB memory or devices.
- The player may not play high bit rate video files on DATA CDs smoothly. You are recommended to play such files using a DATA DVD or DATA BD.

About wireless LAN security

Since communication via the wireless LAN function is established by radio waves, the wireless signal may be susceptible to interception. To protect wireless communication, this player supports various security functions. Be sure to correctly configure the security settings in accordance with your network environment.

◆ No Security

Although you can easily make settings, anyone can intercept wireless communication or intrude into your wireless network, even without any sophisticated tools. Keep in mind that there is a risk of unauthorized access or interception of data.

◆ WEP

WEP applies security to communications to prevent outsiders from intercepting communications or intruding into your wireless network. WEP is a legacy security technology that enables older devices, which do not support TKIP/AES, to be connected.

◆ WPA-PSK (TKIP), WPA2-PSK (TKIP)

TKIP is a security technology developed to correct for the deficiencies of WEP. TKIP assures a higher security level than WEP.

◆ WPA-PSK (AES), WPA2-PSK (AES)

AES is a security technology that uses an advanced security method that is distinct from WEP and TKIP.

AES assures a higher security level than WEP or TKIP.

Notes About the Discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface. Dust, fingerprints, or scratches on the disc may cause it to malfunction.




- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.
- Clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available disc/lens cleaners, or anti-static spray intended for vinyl LPs.
- If you have printed the disc's label, dry the label before playing.
- Do not use the following discs.
 - A lens cleaning disc.
 - A disc that has a non-standard shape (e.g., card, heart).
 - A disc with a label or sticker on it.
 - A disc that has cellophane tape or sticker adhesive on it.
- Do not resurface the playing side of a disc to remove surface scratches.

Code numbers of controllable TVs

While holding down -TV- , enter the TV manufacturer's code using the number buttons.

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

| Manufacturer | Code number |
|----------------|--------------|
| Sony | 01 (default) |
| Hitachi | 02 |
| LG/Goldstar | 04 |
| Mitsubishi/MGA | 13 |
| NEC | 04 |
| Panasonic | 19 |
| Philips | 21 |
| Pioneer | 16 |
| RCA | 10 |
| Samsung | 20 |
| Sharp | 18 |
| Toshiba | 07 |

Language code list

For details, see “BD/DVD Viewing Settings” (page 34).

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code Language

| | | | |
|------|----------------------|------|-----------------------------|
| 1027 | Afar | 1028 | Abkhazian |
| 1032 | Afrikaans | 1039 | Amharic |
| 1044 | Arabic | 1045 | Assamese |
| 1051 | Aymara | 1052 | Azerbaijani |
| 1053 | Bashkir | 1057 | Byelorussian |
| 1059 | Bulgarian | 1060 | Bihari |
| 1061 | Bislama | 1066 | Bengali |
| 1067 | Tibetan | 1070 | Breton |
| 1079 | Catalan | 1093 | Corsican |
| 1097 | Czech | 1103 | Welsh |
| 1105 | Danish | 1109 | German |
| 1130 | Bhutani; Dzongkha | 1142 | Greek |
| 1144 | English | 1145 | Esperanto |
| 1149 | Spanish | 1150 | Estonian |
| 1151 | Basque | 1157 | Persian |
| 1165 | Finnish | 1166 | Fiji |
| 1171 | Faroese | 1174 | French |
| 1181 | Frisian | 1183 | Irish |
| 1186 | Scots Gaelic | 1194 | Galician |
| 1196 | Guarani | 1203 | Gujarati |
| 1209 | Hausa | 1217 | Hindi |
| 1226 | Croatian | 1229 | Hungarian |
| 1233 | Armenian | 1235 | Interlingua |
| 1239 | Interlingue | 1245 | Inupiak |
| 1248 | Indonesian | 1253 | Icelandic |
| 1254 | Italian | 1257 | Hebrew |
| 1261 | Japanese | 1269 | Yiddish |
| 1283 | Javanese | 1287 | Georgian |
| 1297 | Kazakh | 1298 | Greenlandic; Kalaallisut |
| 1299 | Cambodian; Khmer | 1300 | Kannada |
| 1301 | Korean | 1305 | Kashmiri |
| 1307 | Kurdish | 1311 | Kirghiz |
| 1313 | Latin | 1326 | Lingala |
| 1327 | Laothian; Lao | 1332 | Lithuanian |
| 1334 | Latvian | 1345 | Malagasy |
| 1347 | Maori | 1349 | Macedonian |
| 1350 | Malayalam | 1352 | Mongolian |
| 1353 | Moldavian | 1356 | Marathi |

Code Language

| | | | |
|------|--------------------------|------|-------------------------------|
| 1357 | Malay | 1358 | Malese; Maltese |
| 1363 | Burmese | 1365 | Nauru |
| 1369 | Nepali | 1376 | Dutch |
| 1379 | Norwegian | 1393 | Occitan |
| 1403 | Oromo | 1408 | Oriya |
| 1417 | Punjabi; Panjabi | 1428 | Polish |
| 1435 | Pashto; Pushto | 1436 | Portuguese |
| 1463 | Quechua | 1481 | Rhaeto- Romance |
| 1482 | Kirundi; Rundi | 1483 | Romanian |
| 1489 | Russian | 1491 | Kinyarwanda |
| 1495 | Sanskrit | 1498 | Sindhi |
| 1501 | Sangho; Sango | 1502 | Serbo- Croatian |
| 1503 | Singhalese; Sinhalese | 1505 | Slovak |
| 1506 | Slovenian | 1507 | Samoan |
| 1508 | Shona | 1509 | Somali |
| 1511 | Albanian | 1512 | Serbian |
| 1513 | Siswati; Swati | 1514 | Sesotho; Sotho southern |
| 1515 | Sundanese | 1516 | Swedish |
| 1517 | Swahili | 1521 | Tamil |
| 1525 | Telugu | 1527 | Tajik |
| 1528 | Thai | 1529 | Tigrinya |
| 1531 | Turkmen | 1532 | Tagalog |
| 1534 | Setswana; Tswana | 1535 | Tonga; Tonga islands |
| 1538 | Turkish | 1539 | Tsonga |
| 1540 | Tatar | 1543 | Twi |
| 1557 | Ukrainian | 1564 | Urdu |
| 1572 | Uzbek | 1581 | Vietnamese |
| 1587 | Volapük | 1613 | Wolof |
| 1632 | Xhosa | 1665 | Yoruba |
| 1684 | Chinese | 1697 | Zulu |
| 1703 | not specified | | |

Parental control/area code

For details, see “Parental Control Area Code” (page 35).

Code Area

| | | | |
|------|-------------|------|----------------|
| 2044 | Argentina | 2047 | Australia |
| 2046 | Austria | 2057 | Belgium |
| 2070 | Brazil | 2090 | Chile |
| 2092 | China | 2093 | Colombia |
| 2115 | Denmark | 2165 | Finland |
| 2174 | France | 2109 | Germany |
| 2200 | Greece | 2219 | Hong Kong |
| 2248 | India | 2238 | Indonesia |
| 2239 | Ireland | 2254 | Italy |
| 2276 | Japan | 2304 | Korea |
| 2333 | Luxembourg | 2363 | Malaysia |
| 2362 | Mexico | 2376 | Netherlands |
| 2390 | New Zealand | 2379 | Norway |
| 2427 | Pakistan | 2424 | Philippines |
| 2428 | Poland | 2436 | Portugal |
| 2489 | Russia | 2501 | Singapore |
| 2149 | Spain | 2499 | Sweden |
| 2086 | Switzerland | 2543 | Taiwan |
| 2528 | Thailand | 2184 | United Kingdom |

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The software of this player may be updated in the future. For information about any available updates and the latest Operating Instructions, please visit the following website:

<http://www.sony.com/blu-raysupport/>



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