

Blu-ray Disc™ / DVD Player

Operating Instructions

Thank you for your purchase. Before using this player, please read these instructions carefully.

Getting Started

Playback

Internet

Settings and Adjustments

Additional Information



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.

Do not expose batteries or appliances with battery-installed to excessive heat, such as sunshine and fire.

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 adaptor can be unplugged from the wall socket immediately in the event of trouble.

This device complies with Industry Canada’s licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. 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 IC : 4491A-WN4636R

For United States customers. Not applicable in Canada, including in the province Of Quebec.

Pour les consommateurs Aux États-Unis. Non applicable au Canada, y compris la province de Québec.

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. 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 : P PQ-WN4636R

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 1-800-222-SONY(7669).

For Customers in Canada

If this product is not working properly, please contact our **Customer Information Service Center** at 1-877-899-7669 or write to us at: Customer Information Service 115 Gordon Baker Road, Toronto, Ontario, M2H 3R6

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 metres.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- To reduce the risk of fire, do not cover the ventilation opening of the appliance with newspapers, tablecloths, curtains, etc.
- Do not expose the appliance to naked flame sources (for example, lighted candles).
- Do not install this player in a confined space, such as a bookshelf or similar unit.
- 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 from the tray when you move the player. If you don't, the disc may be damaged.

- Disconnect the AC adaptor 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 adaptor, grasp the plug itself; never pull the cord.
- Observe following points to prevent the AC adaptor being damaged. Do not use the AC adaptor if it is damaged, as doing so may result in an electric shock or fire.
 - Do not pinch the AC adaptor between the player and wall, shelf, etc.
 - Do not put anything heavy on the AC adaptor or pull on the AC adaptor itself.

On AC adaptor

- Use the supplied AC adaptor for this player, as other adaptors may cause a malfunction.
- Do not disassemble or reverse-engineer.
- Do not confine the AC adaptor in a closed place such as a bookshelf or an AV cabinet.
- Do not connect the AC adaptor to a traveler's electric transformer, which may generate heat and cause a malfunction.
- Do not drop or apply shock.

On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. Your ears and the speakers may be damaged when the sound level reaches the peak.

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 benzine.

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.

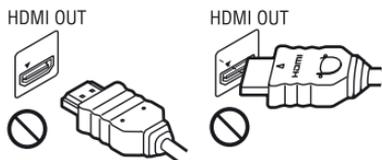
On replacement of parts

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://esupport.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 AAC (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 AAC 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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For EULA (End User License Agreement), please refer to [License agreement] in the option menu on each network service icon.

For details of the other software licenses, please select [Setup] and refer to [Software License Information] in [System Settings].

This product contains software that is subject to the GNU General Public License (“GPL”) or GNU Lesser General Public License (“LGPL”). These licenses establish that customers have the right to acquire, modify, and redistribute the source code of said software in accordance with the terms of the GPL or the LGPL.

The source code for the software used in this product is subject to the GPL and LGPL, and is available on the Web. To download, please visit the following website:

<http://www.sony.net/Products/Linux>

Please note that Sony cannot respond to any inquiries regarding the content of this source code.

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by third parties**

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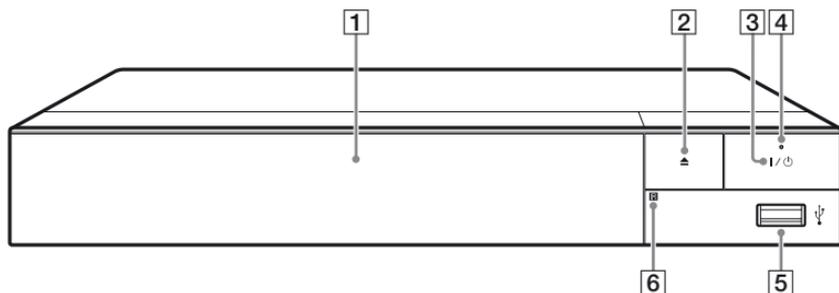
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Guide to Parts and Controls

Front panel



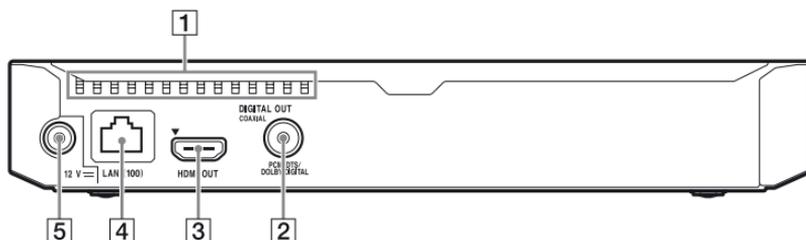
- 1 Door tray**
- 2 ▲ (open/close)**
- 3 I/⏻ (on/standby)**
Turns on the player, or sets to standby mode.
- 4 Power indicator**
Lights up when the player is turned on.
- 5 USB (USB) jack**
Connect a USB device to this jack.
- 6 Remote sensor**

To lock the disc tray (Child Lock)

You can lock the disc tray to avoid accidental opening of the tray.

While the player is turned on, press ■ STOP, HOME, and then TOP MENU button on the remote to lock or unlock the tray.

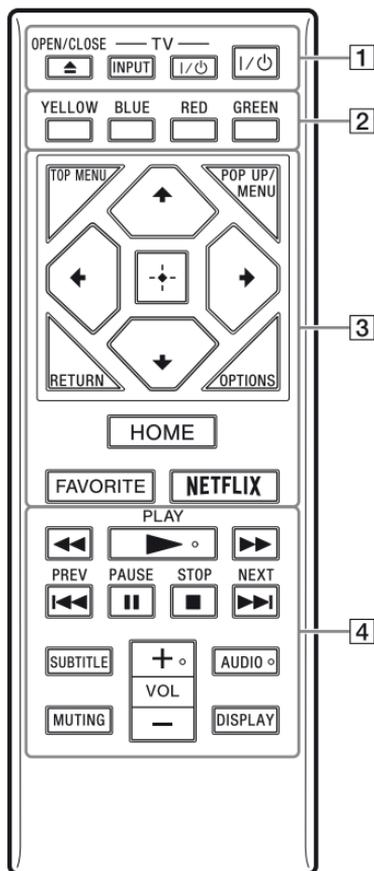
Rear panel



- 1** Ventilation holes
- 2** DIGITAL OUT (COAXIAL) jack
- 3** HDMI OUT jack
- 4** LAN (100) terminal
- 5** DC IN 12 V (AC adaptor input) jack

Remote

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



- ▶ **PLAY, VOL +, and AUDIO** buttons have a tactile dot. Use the tactile dot as a reference when operating the player.
- For “Code numbers of controllable TVs”, see page 46.

The player automatically returns to standby mode

If any button on the player or remote is not pressed for more than 20 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 Color buttons (YELLOW/BLUE/RED/GREEN)

Shortcut keys for interactive functions.

3 TOP MENU

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

POP UP/MENU

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

OPTIONS (page 24)

Displays the available options on the screen.

RETURN

Returns to the previous display.



Moves the highlight to select a displayed item.



↑/↓ as a shortcut key to launch track search window and input track number during music CD playback.

Center button (ENTER)

Enters the selected item.

HOME

Enters the player's home screen.

FAVORITE (page 16)

Accesses the application registered as favorite.

NETFLIX

Accesses the "NETFLIX" online service. For further NETFLIX online service details, visit the following website and check the FAQ:

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

4 ◀◀/▶▶ (fast reverse/fast forward)

- Fast reverse/fast forward the disc when you press the button during playback. The search speed changes each time you press the button during video playback.
- Plays in slow motion, when pressed for more than one second in pause mode.
- Plays one frame at a time, when you press for a short time in pause mode.

▶▶ PLAY

Starts or re-starts playback.

◀◀ PREV/NEXT ▶▶

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

|| 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.

SUBTITLE (page 31)

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

VOL +/-

Adjusts the TV volume.

AUDIO (page 31)

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

Selects the sound track on CDs.

MUTING

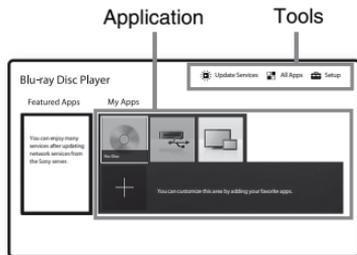
Turns off the sound temporarily.

DISPLAY (page 22)

Displays the playback and web browsing information on the screen.

Home screen display

The home screen appears when you press HOME. Select an application using ←/↑/↓/→, and press ENTER.



[My Apps]: Manages favorite application. You may add shortcuts for application from [All Apps].

[Featured Apps]: Displays recommended application.

[Update Services]: Updates network applications list. Appears when network application update is available.

[All Apps]: Shows all available applications. You can add applications to [My Apps] by pressing OPTIONS, and select [Add to My Apps].

[Setup]: Adjusts the player's settings.

Available options

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

[Move Application]: Arranges applications in [My Apps].

[Remove Application]: Deletes applications in [My Apps].

[Register as Favorite]: Registers 1 application into FAVORITE remote button.

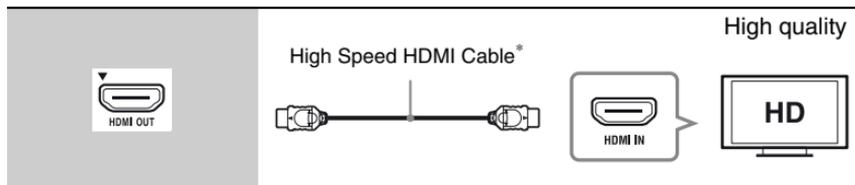
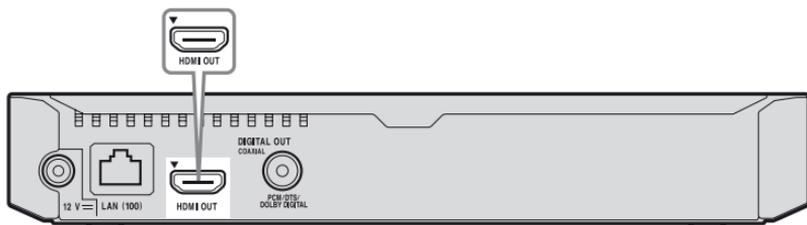
[Data Contents]: Plays the contents of mixed disc.

Step 1: Connecting the Player

Do not connect the AC adaptor until you have made all the connections.

Connecting to your TV

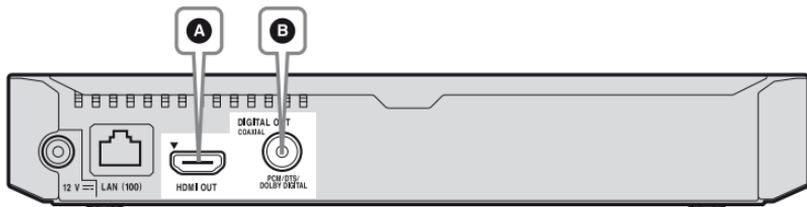
Connect the player to your TV with a High Speed HDMI Cable.



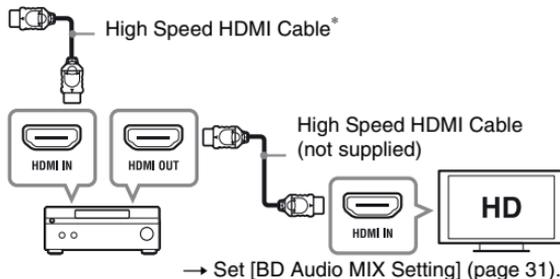
* See "Supplied accessories" (page 41).

Connecting to your AV amplifier (receiver)

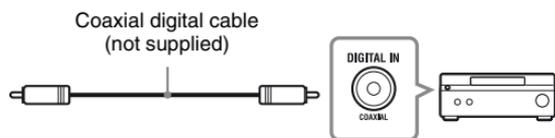
Select one of the following connection methods according to the input jacks on your AV amplifier (receiver). When you select **A** or **B**, make the appropriate settings in the [Audio Settings] (page 30).



A



B



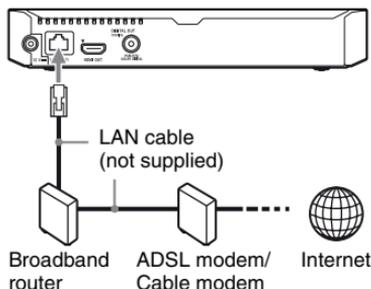
* See "Supplied accessories" (page 41).

Step 2: Preparing for Network Connection

If you are not going to connect the player to a network, proceed to “Step 3: Easy Setup” (page 19).

Wired Setup

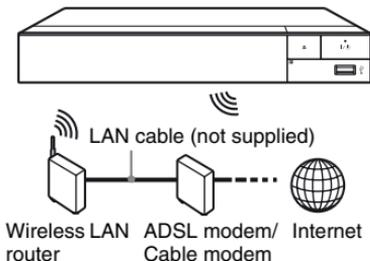
Use a LAN cable to connect to the LAN (100) terminal on the player.



The use of a shielded and straight interface cable (LAN cable) is recommended.

Wireless Setup

Use the wireless LAN that is built into the player.

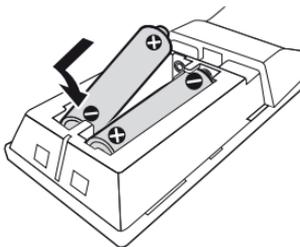


Step 3: Easy Setup

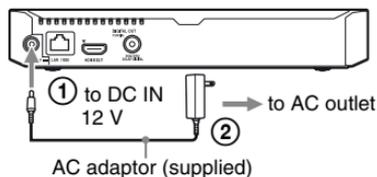
When turned on for the first time

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

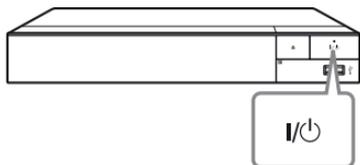
- 1 Insert two Size AAA (R03) batteries by matching the \oplus and \ominus ends on the batteries to the markings inside the battery compartment of the remote.



- 2 Connect the supplied AC adaptor in the numeric order shown below. When removing them, do so in reverse order.



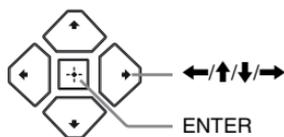
- 3** Press I/⏻ to turn on the player.



- 4** Turn on the TV and set the input selector on your TV. This will show the signal from the player on your TV screen.

- 5** Perform [Easy Initial Settings].

Follow the on-screen instructions to make the basic settings using ←/↑/↓/→ and ENTER on the remote.

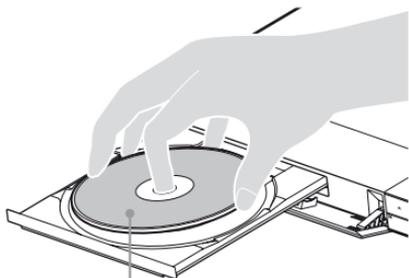


When [Easy Initial Settings] is complete, the player will automatically find the available network.

Playing a Disc

For playable discs, see page 41.

- 1 Switch the input selector on your TV so that the signal from the player appears on your TV screen.
- 2 Press \blacktriangle OPEN/CLOSE, and place a disc on the disc tray.



Playing side facing down

- 3 Press \blacktriangle OPEN/CLOSE to close the disc tray.

Playback starts.

If playback does not start automatically, select [Video], [Music], or [Photo] category in (Disc), and press ENTER.



(Mixed disc) contains data contents. Press OPTION on the remote and select [Data Contents] to playback any available contents.

Enjoying BONUSVIEW/ BD-LIVE

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



- 1 Connect a USB memory to the USB jack on the player (page 12).

Use a 1 GB or larger USB memory as your local storage.

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

- Connect the player to a network (page 19).
- Set [BD Internet Connection] in [BD/DVD Viewing Settings] to [Allow] (page 32).

- 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 [Delete BD Data] in [BD/DVD Viewing Settings], 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 [Screen Settings] (page 28).

2 Insert a Blu-ray 3D Disc.

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

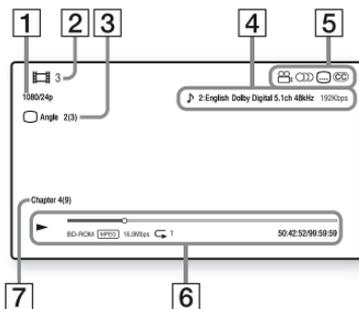


Refer also to the instruction manuals supplied with your TV and the connected device.

Displaying the play information

You can view the 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 angle
- 4 The currently selected audio and closed caption (For customers in the USA) settings
- 5 Available functions (Angle, audio, subtitle, closed caption (For customers in the USA))
- 6 Playback information
Displays the Play mode, Playing status bar, Disc type, Video codec, Bitrate, Repeat type, Elapsed time, and Total playing time.
- 7 Chapter number

Playing from a USB Device

For “Playable types of files”, see page 43.

1 Connect the USB device to the USB jack on the player (page 12).

Refer to the instruction manual supplied with the USB device before connecting.

2 Select [USB device] using $\leftarrow/\uparrow/\downarrow/\rightarrow$, and press ENTER.

3 Select , , or category using \uparrow/\downarrow , and press ENTER.

Playing via a Network

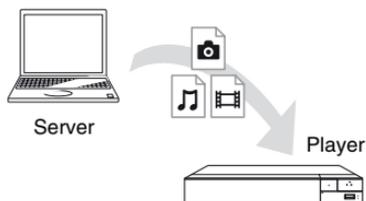
Playing files on a Home Network (DLNA)

A DLNA-compatible product can play video/music/photo files stored on another DLNA-compatible product via a network.

1 Prepare to use DLNA.

- Connect the player to a network (page 19).
- Prepare the other necessary DLNA-compatible products. Refer to the instruction manual supplied with the product.

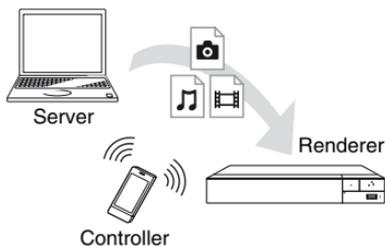
To play a file from a DLNA server via this unit (DLNA player)



Select , , or  category from  [Media Server] in [All Apps], then choose the file you want to play.

To play a file from a DLNA server via another product (Renderer)

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



Control this unit using a DLNA controller. Refer to the instruction manual supplied with the DLNA controller.

Using “TV SideView”

“TV SideView” is a free mobile application for remote devices (such as smartphone, etc.). By using “TV SideView” with this player, you can easily enjoy the player by using the operation on your remote device. You can launch a service or application directly from the remote device and view the disc information during disc playback. “TV SideView” also can be used as a remote control and software keyboard.

Before you use the “TV SideView” device with this player for the first time, be sure to register the “TV SideView” device. Follow the on-screen instructions on the “TV SideView” device for registration.



The registration can only be performed on the home screen.

Using Screen mirroring

“Screen mirroring” is a function to display the screen of a mobile device on the TV by Miracast technology. The player can be connected directly with a Screen mirroring compatible device (e.g. smartphone, tablet). You can enjoy the display screen of the device on your large TV screen. No wireless router (or access point) is required to use this feature.



- When using Screen mirroring, the quality of picture and sound may sometimes be deteriorated due to interference from other network.

- Some network functions may not be available during Screen mirroring.
- Make sure that the device is compatible with Miracast. Connectivity with all Miracast compatible devices is not guaranteed.
- You can improve the playback stability by setting the [Screen mirroring RF Setting] (page 34).

1 Select [Screen mirroring] from home screen using ///, and press ENTER.

2 Follow the on-screen instructions.

Available Options

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

Common options

- **[Repeat Setting]:** Sets the repeat mode.
- **[3D Menu]:**
 - [Simulated 3D]: Adjusts the simulated 3D effect.
 - [3D Depth Adjustment]: Adjusts the depth of 3D image.
 - [2D Playback]: Sets playback to 2D image.
- **[Play]/[Stop]:** Starts or stops the playback.
- **[Play from beginning]:** Plays the item from the beginning.
- **[Change Category]:** Switches category between [Video], [Music] and [Photo] category.

[Video] only

- **[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).
- **[Video Settings]:**
 - [Picture Quality Mode]: Selects the picture settings for different lighting environments.
 - [Direct]^{*1}/[Standard]^{*2}
 - [Brighter Room]^{*1*2}
 - [Theater Room]^{*1*2}
 - [Auto]^{*1}
 - [Custom1]^{*1}/[Custom2]^{*1}
 - [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.
 - [FNR]: Reduces the random noise appearing in the picture.
 - [BNR]: Reduces the mosaic-like block noise in the picture.
 - [MNR]: Reduces minor noise around the picture outlines (mosquito noise).
 - [Contrast]
 - [Brightness]
 - [Color]
 - [Hue]

^{*1} Available when output 2K video signal. To display these options when the player is connected to 4K-compatible equipment, set [4K Output] in [Screen Settings] to [Off].

^{*2} Available when output 4K video signal.

- **[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.
- **[Audio]:** Switches the language track when multilingual tracks are recorded on BD-ROMs/DVD VIDEOS. Selects the sound track on CDs.
- **[Subtitle]:** Switches the subtitle language when multilingual subtitles are recorded on BD-ROMs/DVD VIDEOS.
- **[Closed Captions] (For customers in the USA):** Selects closed caption format when available.
- **[Angle]:** Switches to other viewing angles when multi-angles are recorded on BD-ROMs/DVD VIDEOS.
- **[Number Entry]:** Selects the number by using ←/↑/↓/→ key on the remote.
- **[Video Search]:** Displays information on the BD-ROM/DVD-ROM based on Gracenote technology. Searches for related information using keywords from Gracenote when selecting [Cast] or [Related]. Displays a list of titles when selecting [Playback History] or [Search History].

[Music] only

- **[Track Search]:** Searches the track number during music CD playback.
- **[Add Slideshow BGM]:** Registers music files in the USB memory as slideshow background music (BGM).
- **[Music Search]:** Displays information on the audio CD (CD-DA) based on Gracenote technology.
Searches for related information using keywords from Gracenote when selecting [Track], [Artist] or [Related].
Displays a list of titles when selecting [Playback History] or [Search History].

[Photo] only

- **[Slideshow Speed]:** Changes the slideshow speed.
- **[Slideshow Effect]:** Sets the effect for slideshows.
- **[Slideshow BGM]:**
 - [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].
- **[View Image]:** Displays the selected photo.
- **[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.

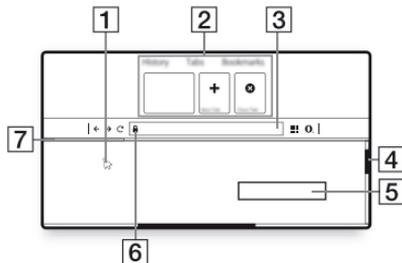
- 1 Prepare the Internet Browser.**
Connect the player to a network (page 19).
- 2 Select  [All Apps] on the home screen using $\leftarrow/\uparrow/\downarrow/\rightarrow$.**
- 3 Select  [Internet Browser] using $\leftarrow/\uparrow/\downarrow/\rightarrow$, and press ENTER.**



This browser does not support some websites functions, and some websites may not be shown correctly.

Internet browser display

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



- 1 Virtual Cursor**
Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to display the virtual cursor.
Consists of three different visual states:  (arrow) for normal,  (pointer) for links such as text and images and  (I-beam) for editable text input field in website.
- 2 Shortcuts**
Move the virtual cursor to the top of website to display the shortcuts.
- 3 Browser Bar**
Press DISPLAY or move the virtual cursor to the top of website to display the browser bar.
- 4 Scroll bar**
Move the virtual cursor to the nearest edge by pressing $\leftarrow/\uparrow/\downarrow/\rightarrow$, and the website will scroll accordingly.
- 5 Text Input field**
Move the virtual cursor to the text input field, and press ENTER to display the software keyboard.
- 6 Secured Connection Icon**
Displays when the website is protected and connected safely.
- 7 Progress Bar**
Appears when the website is being load.

Settings and Adjustments

Using the Settings Displays

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

The default settings are underlined.

- 1 Select  [Setup] on the home screen using ///.
- 2 Select the setup category icon using /, and press ENTER.

[Software Update]

■ [Update via Internet]

Updates the player's software using available network. Make sure that the network is connected to the Internet. For details, see "Step 2: Preparing for Network Connection" (page 19).

■ [Update via USB Memory]

Updates the player's software using USB memory. Make sure that the Software Update Folder is correctly named as "UPDATE" and all the update files must be stored in this folder. The player can recognize up to 500 files/folders in a single layer including the update files/folders.



- We recommend performing the software update every 2 months or so.
- If your network condition is poor, visit <http://www.sony.com/bluraysupport/> to download the latest software version and update via USB memory.
You can also get information about update functions from the website.



[Screen Settings]

■ [3D Output Setting]

[Auto]: Normally select this.

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

■ [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 Resolution]

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.

■ [24p Output]

Outputs 24p video signals only when you connect a 1080/24p-compatible TV via an HDMI connection and the [Output Video Resolution] is set to [Auto] or [1080p].

[BD-ROM 24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[On]: Turns on the function.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

[DVD-ROM 24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

[Data content 24p Output]

This function is available for playback contents stored in USB memory or data disc.

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

[Network content 24p Output]

This function is available for playback contents from other network, such as Home Network, Screen mirroring, etc.

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

■ [4K Output]

[Auto1]: Outputs 2K (1920 × 1080) video signals during video playback and 4K video signals during photo play when connecting to a Sony 4K-compatible equipment.

Outputs 4K video signals during playback of 24p video contents in BD ROMs/DVD ROMs/Data content/Network content or photo play when connecting to a non-Sony 4K-compatible equipment.

This setting does not work for 3D video image playback.

[Auto2]: Automatically outputs 4K/24p video signals when you connect a 4K/24p -compatible equipment and make the appropriate settings in [BD-ROM 24p Output], [DVD-ROM 24p Output], [Data content 24p Output] or [Network content 24p Output] and also outputs 4K/24p photo images when you play 2D photo files.

[Off]: Turns off the function.



If your Sony equipment is not detected when [Auto1] is selected, the setting will have the same effect as [Auto2] setting.

■ [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.

■ [IP Content NR Pro]

[Video3]/[Video2]/[Video1]/

[Film1]/[Film2]/[Film3]: Adjust the picture quality for Internet content.

[Off]: Turns off the function.

■ [Pause Mode]

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

[Frame]: Displays static pictures at high resolution.



[Audio Settings]

■ [Digital Audio Output]

[Auto]: Normally select this. Outputs audio signals according to the status of the connected devices.

[PCM]: Outputs PCM signals from the DIGITAL OUT (COAXIAL)/HDMI OUT jack.

■ [DSD Output Mode]

[Auto]: Outputs DSD signals from the HDMI OUT jack when playing a Super Audio CD and DSD format file. Outputs LPCM signals instead if the HDMI connected device not support DSD.

[Off]: Outputs PCM signals from the HDMI OUT jack when playing a Super Audio CD and DSD format file.

■ [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).

■ [Digital Music Enhancer]

[On]: Set the sound effect when playing Internet content or USB content.

[Off]/[Sound Bar Mode]: Turns off the function.

■ [Dolby D Compatible Output]

[On]: Converts DTS audio source to Dolby Digital audio by using EDID (Extended Display Identification Data).

[Off]: Turns off the function.

■ [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.

Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 46).

■ [Audio Language]

Selects the default audio language for BD-ROMs or DVD VIDEOS.

When you select [Original], the language given priority in the disc is selected.

Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 46).

■ [Subtitle Language]

Selects the default subtitle language for BD-ROMs or DVD VIDEOS.

Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 46).

■ [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.

■ [Delete BD Data]

Deletes data in the USB memory.

All data stored in the buda folder will be erased.

[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 on-screen display language for your player.

■ [Closed Caption Settings] (For customers in the USA)

Customizes the format of Closed Caption displayed.

Select [Original] in [Text Settings] setting to disable.

■ [HDMI Settings]

By connecting Sony components that are compatible with HDMI functions with a High Speed HDMI Cable, operation is simplified.

[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.

[Linked to TV-off]

[Valid]: Automatically turns off the player when the connected TV enters standby mode (BRAVIA Sync).

[Invalid]: Turns off the function.

■ [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 28).

[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.

■ [Device Name]

Displays the player's name. The player's name can be changed.

■ [System Information]

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

■ [Software License Information]

Displays information about the Software License.



Network Settings

■ [Internet Settings]

Connect the player to the network beforehand. For details, see “Step 2: Preparing for Network Connection” (page 19).

[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.



For further details, visit the following website and check the FAQ contents:
<http://www.sony.com/bluraysupport/>

■ [Network Connection Status]

Displays the current network status.

■ [Network Connection Diagnostics]

Checks for the proper network connection by running the network diagnostics.

■ [Screen mirroring RF Setting]

[Auto]: Sets the RF (Radio Frequency) channel band automatically for Screen mirroring connection.

[CH 1]/[CH 6]/[CH 11]: Sets CH 1/CH 6/CH 11 as priority.

■ [Connection Server Settings]

Sets whether or not to display the connected server.

■ [Auto Renderer Access Permission]

[On]: Allows automatic access from newly detected DLNA controller-compatible product.

[Off]: Turns off the function.

■ [Renderer Access Control]

Displays a list of DLNA controller-compatible products and sets whether or not to accept commands from the controllers in the list.

■ [Registered Remote Devices]

Displays a list of your registered remote devices.

■ [Remote Start]

[On]: Turns the player on or off using your remote device when connecting to the network.

[Off]: Turns off the function.

Easy Network Settings

1·2·3

Select [Easy Network Settings] to specify the network settings. Follow the on-screen instructions.

 **[Resetting]**

■ [Reset to Factory Default Settings]

Resets 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]

Erases your personal information stored in the player.



If you dispose, transfer or resell this unit, please delete all Personal Information for security purposes. Please take the appropriate measures such as logging out after using a network service.

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 17).
- ➔ Switch the input selector on your TV to display the signal from the player.
- ➔ Reset the [Output Video Resolution] to the lowest resolution by pressing ■ STOP, HOME, and then POP UP/MENU button on the remote.
- ➔ 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.
- ➔ Check the [Output Video Resolution] settings in the [Screen Settings] (page 29).
- ➔ For BD ROMs/DVD ROMs/Data content/Network content, check the [24p Output] in [Screen Settings] (page 29).

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

- ➔ When [Control for HDMI] in [HDMI Settings] is set to [On] (page 33), 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 17).
- ➔ 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 (COAXIAL)/HDMI OUT jack, check the audio settings (page 30).
- ➔ 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).
- ➔ 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 30).

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] in [Audio Settings] to [Off] (page 31).
- ➔ 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] in [Audio Settings] to [On] (page 31).

Message Code 3 [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] appears on the screen when playing a disc.

- ➔ The audio track of the video that you are playing contains a Cinavia code indicating that it is an unauthorized copy of professionally-produced content (page 6).

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 41).
- ➔ The player cannot play a recorded disc that is not 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.

Internet streaming

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

- ➔ Picture/sound quality may be improved by changing the connection speed. Recommended connection speed is of at least 2.5 Mbps for standard definition video (10 Mbps for high definition video).

Network connection

The player cannot connect to the network.

- ➔ Check the network connection (page 19) and the network settings (page 34).

The PC cannot connect 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 do not appear in the wireless network list.

- ➔ Press RETURN to return to the previous screen, and try wireless setup again. If the desired wireless router is still not detected, select [New connection registration] to perform [Manual registration].

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

- ➔ See [Software Update] (page 28) to update the player to a newer software version.

Control for HDMI (BRAVIA Sync)

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

- ➔ Check that [Control for HDMI] in [HDMI Settings] is set to [On] (page 33).
- ➔ If you change the HDMI connection, turn the player off and on again.
- ➔ If power failure occurs, set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 33).

- ➔ 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 adaptor, 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] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 33). 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 [Linked to TV-off] in [HDMI Settings] are set to [On] and [Valid] (page 33).

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.

Message Code 1 [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 appears on the screen when playing a disc.

- ➔ The audio track of the video that you are playing contains a Cinavia code indicating it was intended for presentation using professional equipment only and is not authorized for playback by consumers (page 6).

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

- ➔ While the player is turned on, press  STOP, HOME, and then TOP MENU button on the remote to unlock the tray and disable the Child Lock (page 12).
- ➔ Try the following: ① Turn the player off, and disconnect the AC adaptor. ② Reconnect the AC adaptor while pressing down  on the player. ③ Keep pressing down  on the player until the tray opens. ④ Remove the disc. ⑤ Disconnect and reconnect the AC adaptor again to recover the player.

The message [EJECT] Key is currently unavailable.] appears on the screen after  is pressed.

- ➔ Contact your nearest Sony dealer or local authorized Sony service facility.

The player does not respond to any button.

- ➔ Moisture has condensed inside the player (page 4).

Specifications

System

Laser: Semiconductor laser

Inputs and outputs

(Jack name:

Jack type/Output level/Load impedance)

DIGITAL OUT (COAXIAL):

Phono jack/0.5 Vp-p/75 ohms

HDMI OUT:

HDMI 19-pin standard connector

LAN (100):

100BASE-TX Terminal

USB:

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

DC IN:

12 V DC, 780 mA

Wireless

Wireless LAN standard:

IEEE 802.11 b/g/n

Frequency range:

2.4 GHz band: Channels 1-11

Modulation:

DSSS and OFDM

General

Power requirements:

12 V DC with AC adaptor

Rating: Input 120 V AC, 60 Hz

Power consumption (when using AC adaptor):

12 W

Dimensions (approx.):

255 mm × 192 mm × 39 mm

(10 1/8 in. × 7 5/8 in. × 1 9/16 in.)

(width/depth/height)

incl. projecting parts

Mass (approx.): 0.9 kg (2 lb)

Operating temperature:

5 °C to 35 °C (41 °F to 95 °F)

Operating humidity:

25 % to 80 %

Supplied accessories

High Speed HDMI Cable (1) *
AC adaptor (AC-M1208UC) (1)
Remote commander (remote) (1)
Size AAA (R03) batteries (2)

* Supplied for BDP-BX650

Specifications and design are subject to change without notice.

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 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

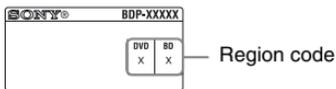
Some playback operations of BDs/DVDs may be intentionally set by software producers. Since this player plays BDs/DVDs according to the disc contents the software producers designed, some playback features may not be available.

Note about double-layer BDs/DVDs

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

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

| Codec | Container | Extension | With Audio |
|----------------------------|------------------------------|-----------------------------|---------------------------------------|
| MPEG-1 Video* ¹ | PS | .mpg, .mpeg | Dolby Digital, DTS, LPCM, MPEG |
| | MKV | .mkv | Dolby Digital, LPCM, AAC, MP3, Vorbis |
| MPEG-2 Video* ² | PS* ³ | .mpg, .mpeg | Dolby Digital, DTS, LPCM, MPEG |
| | TS* ⁴ | .m2ts, .mts | Dolby Digital, DTS, LPCM, MPEG, AAC |
| | MKV* ¹ | .mkv | Dolby Digital, LPCM, AAC, MP3, Vorbis |
| Xvid | AVI | .avi | Dolby Digital, LPCM, WMA9, MP3 |
| | MKV | .mkv | Dolby Digital, LPCM, AAC, MP3, Vorbis |
| MPEG4/AVC* ⁵ | MKV* ¹ | .mkv | Dolby Digital, LPCM, AAC, MP3, Vorbis |
| | MP4* ¹ | .mp4, .m4v | AAC |
| | TS* ¹ | .m2ts, .mts | Dolby Digital, DTS, LPCM, MPEG, AAC |
| | Quick Time* ⁶ | .mov | Dolby Digital, LPCM, AAC, MP3 |
| | FLV* ⁶ | .flv, .f4v | LPCM, AAC, MP3 |
| | 3gpp/ 3gpp2* ⁶ | .3gp, .3g2, .3gpp, .3gp2 | AAC |
| VC1* ¹ | TS | .m2ts, .mts | Dolby Digital, DTS, LPCM, MPEG, AAC |
| | MKV | .mkv | Dolby Digital, LPCM, AAC, MP3, Vorbis |
| WMV9* ^{1*7} | ASF | .wmv, .asf | WMA9, WMA 10 Pro |
| | MKV | .mkv | Dolby Digital, LPCM, AAC, MP3, Vorbis |
| Motion JPEG* ⁶ | Quick Time | .mov | Dolby Digital, LPCM, AAC, MP3 |
| | AVI | .avi | Dolby Digital, LPCM, AAC, MP3 |

Format

AVCHD (Ver.2.0)*^{1*8*9*10}

Music

| Codec | Extension |
|---|--------------------------|
| MP3 (MPEG-1 Audio Layer III) ^{*11} | .mp3 |
| AAC/HE-AAC ^{*1*11} | .m4a, .aac ^{*6} |
| WMA9 Standard ^{*1} | .wma |
| WMA 10 Pro ^{*6} | .wma |
| LPCM ^{*11} | .wav |
| FLAC ^{*1} | .flac, .fla |
| Dolby Digital ^{*6*11} | .ac3 |
| DSF ^{*1} | .dsf |
| DSDIFF ^{*1*12} | .dff |
| AIFF ^{*1} | .aiff, .aif |
| ALAC ^{*1} | .m4a |
| Vorbis ^{*6} | .ogg |
| Monkey's Audio ^{*6} | .ape |

Photo

| Format | Extension |
|--------|-----------------------|
| JPEG | .jpeg, .jpg, .jpe |
| PNG | .png ^{*13} |
| GIF | .gif ^{*13} |
| MPO | .mpo ^{*6*14} |

^{*1} The player may not play this file format on a DLNA server.

^{*2} The player can only play standard definition video on a DLNA server.

^{*3} The player does not play DTS format files on a DLNA server.

^{*4} The player can only play Dolby Digital format files on a DLNA server.

^{*5} The player can support AVC up to Level 4.1.

^{*6} The player does not play this file format on a DLNA server.

^{*7} The player can support WMV9 up to Advance Profile.

^{*8} The player can support frame rate up to 60 fps.

^{*9} 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.

^{*10} The player can play AVCHD 3D format.

^{*11} The player can play “.mka” files. This file cannot be played on a DLNA server.

^{*12} The player does not play DST encoded files.

^{*13} The player does not play animated PNG or animated GIF files.

^{*14} 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 edited on a PC may not play.
- Some files may not be able to perform fast forward or fast reverse function.
- The player does not play coded files such as DRM and Lossless.
- 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.
- The player can support frame rate:
 - up to 60 fps for AVCHD (MPEG4/AVC) only.
 - up to 30 fps for other video codecs.
- The player can support video bit rate up to 40 Mbps.
- 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.

- To avoid data corruption or damage to the USB memory or devices, turn off the player when connecting or removing the USB memory or devices.
- The player may not play high bit rate video files on DATA CDs smoothly. It is recommended to play such files using DATA DVDs or DATA BDs.

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 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 benzene, 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

Hold down -TV- **I/⏻** and the TV manufacturer's code using the remote buttons for 2 seconds.

| Manufacturer | Remote Button |
|-----------------|-----------------------|
| Sony (Default) | Color button (YELLOW) |
| Hitachi | Color button (BLUE) |
| LG/Goldstar/NEC | Color button (RED) |
| Toshiba | Color button (GREEN) |
| RCA | TOP MENU |
| Mitsubishi/MGA | ↑ |
| Pioneer | POP UP/MENU |
| Sharp | ← |
| Panasonic | ENTER |
| Samsung | ➡ |
| Philips | RETURN |

Language code list

For details, see [BD/DVD Viewing Settings] (page 31).

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 |
| 1363 | Burmese |
| 1369 | Nepali |
| 1379 | Norwegian |
| 1403 | Oromo |
| 1417 | Punjabi; Panjabi |
| 1435 | Pashto; Pushto |
| 1463 | Quechua |
| 1482 | Kirundi; Rundi |
| 1489 | Russian |
| 1495 | Sanskrit |
| 1501 | Sangho; Sango |
| 1503 | Singhalese; Sinhalese |
| 1506 | Slovenian |
| 1508 | Shona |
| 1511 | Albanian |
| 1513 | Siswati; Swati |
| 1515 | Sundanese |
| 1517 | Swahili |
| 1525 | Telugu |
| 1528 | Thai |
| 1531 | Turkmen |
| 1534 | Setswana; Tswana |
| 1538 | Turkish |
| 1540 | Tatar |
| 1557 | Ukrainian |
| 1572 | Uzbek |
| 1587 | Volapük |
| 1632 | Xhosa |
| 1684 | Chinese |
| 1703 | Not specified |

| | |
|------|-------------------------------|
| 1358 | Malese; Maltese |
| 1365 | Nauru |
| 1376 | Dutch |
| 1393 | Occitan |
| 1408 | Oriya |
| 1428 | Polish |
| 1436 | Portuguese |
| 1481 | Rhaeto- Romance |
| 1483 | Romanian |
| 1491 | Kinyarwanda |
| 1498 | Sindhi |
| 1502 | Serbo- Croatian |
| 1505 | Slovak |
| 1507 | Samoan |
| 1509 | Somali |
| 1512 | Serbian |
| 1514 | Sesotho; Sotho southern |
| 1516 | Swedish |
| 1521 | Tamil |
| 1527 | Tajik |
| 1529 | Tigrinya |
| 1532 | Tagalog |
| 1535 | Tonga; Tonga islands |
| 1539 | Tsonga |
| 1543 | Twi |
| 1564 | Urdu |
| 1581 | Vietnamese |
| 1613 | Wolof |
| 1665 | Yoruba |
| 1697 | Zulu |

Parental control/area code

For details, see [Parental Control Area Code] (page 32).

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 |
| 2586 | Vietnam | | |

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/bluraysupport/>



<http://www.sony.net/>

4-571-032-11(1)

