

SONY®

4-418-507-11(3)

Blu-ray Disc™ / DVD Player

Operating Instructions

Hookups and Settings

Playback

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Additional Information



BDP-S790

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 mains lead 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.

For customers in European countries





This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Notice for customers in the United Kingdom and Republic of Ireland

A molded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied

one and approved by ASTA or BSI to BS1362, (i.e., marked with  or  mark) must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

For customers in Australia/New Zealand

The above symbol is applicable in the European Union and other European countries with separate collection systems.



Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.

By ensuring these batteries are disposed of

correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.

To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Notice for customers in the United Kingdom and Republic of Ireland

The following information is only applicable to equipment sold in countries applying EU directives.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Precautions

- This unit operates on 220–240V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- 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 mains lead can be unplugged from the wall socket immediately in the event of trouble.

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.
- 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.
- This player should be installed and operated with a minimum distance of at least 20 cm or more between the player and a person's body (excluding extremities: hands, wrists, feet and ankles).

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

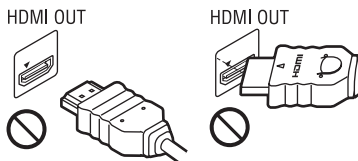
On replacement of parts

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* 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.

* **For customers in European countries**
<http://www.sony-europe.com/myproduct/>
For customers in Australia/New Zealand
<http://www.sony-asia.com/support/>

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, analogue 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

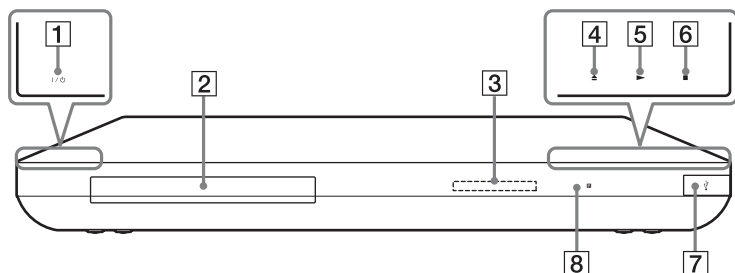
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Guide to Parts and Controls

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, 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 33).

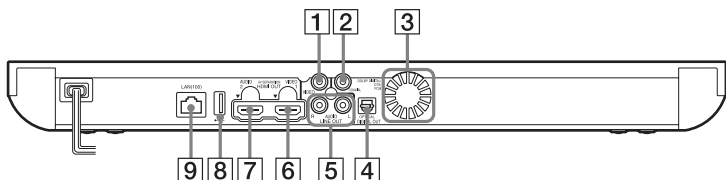


These buttons work when you touch them lightly. Do not press them with excessive force.



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

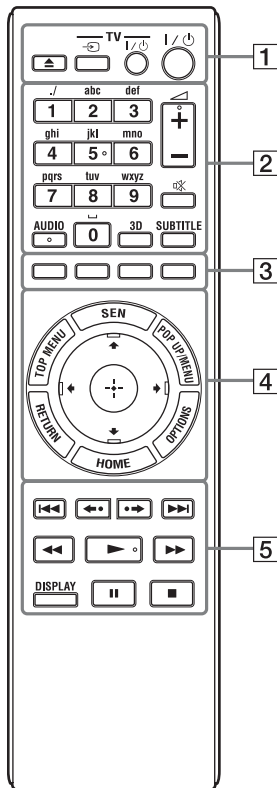
Rear panel



- | | |
|-------------------------------------|-------------------------------------|
| 1 LINE OUT (VIDEO) jack | 5 LINE OUT (R-AUDIO-L) jacks |
| 2 DIGITAL OUT (COAXIAL) jack | 6 HDMI OUT 1 jack |
| 3 Ventilation holes | 7 HDMI OUT 2 jack |
| 4 DIGITAL OUT (OPTICAL) jack | 8 (USB) jack |
| | 9 LAN (100) terminal |

Remote

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



Number 5, AUDIO, \blacktriangleleft +, and \blacktriangleright buttons have a tactile dot. Use the tactile dot as a reference when operating the player.

1 \blacktriangle (open/close)

Opens or closes the disc tray.

-TV- \rightarrow (TV input select)

Switches between TV and other input sources.

-TV- I/O (on/standby)

Turns on the TV, or sets to standby mode.

I/O (on/standby)

Turns on the player, or sets to standby mode.

2 Number buttons (0 - 9)

Enters the title/chapter numbers, etc.

\blacktriangleleft (volume) +/-

Adjusts the TV volume.

\boxtimes (muting)

Turns off the sound temporarily.

AUDIO (page 32)

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

Selects the sound track on CDs.

3D (page 22)

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

SUBTITLE (page 32)

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

3 Colour buttons (red/green/yellow/blue)

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 22)

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.

Centre button (ENTER)

Enters the selected item.

5 [◀◀/▶▶] (previous/next)

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.



Playback in slow motion or one frame is not available for a Blu-ray 3D Disc.

▶ (play)

Starts or re-starts playback.

DISPLAY (page 19)

Displays the playback and web browsing information on the screen.

|| (pause)

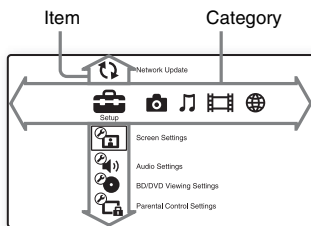
Pauses or re-starts playback.

■ (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.

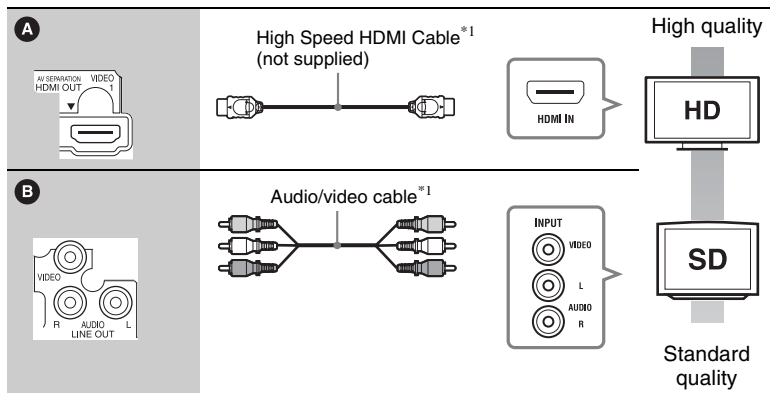
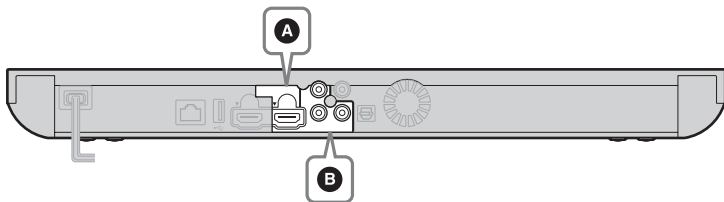
Step 1: Connecting the Player

Do not connect the mains lead until you have made all the other connections.
For supplied accessories, see “Supplied accessories” (page 40).

Connecting to your TV

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

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



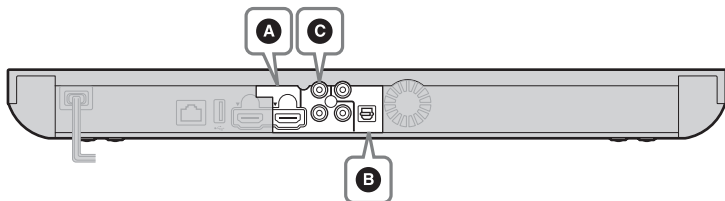
*¹ See “Supplied accessories” (page 40).



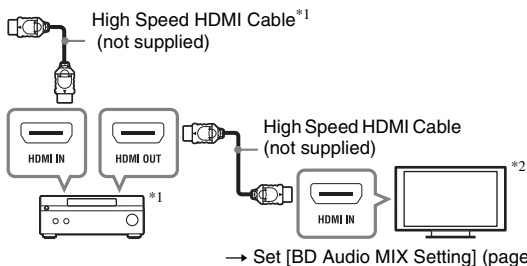
Do not connect the player through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

Connecting to your AV amplifier (receiver)

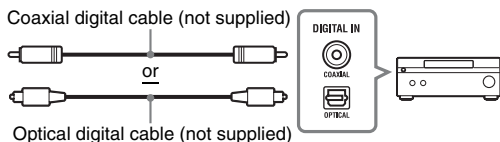
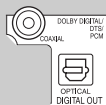
Select one of the following connection methods according to the input jacks on your AV amplifier (receiver). When you select **A** or **B**, make the appropriate settings in the [Audio Settings] setup (page 31).



A

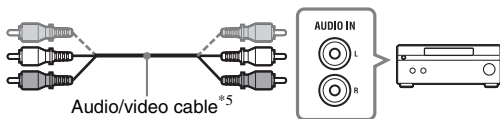
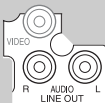


B



→ Set [Dolby Digital]^{*3}/[DTS]^{*4} (page 31).

C

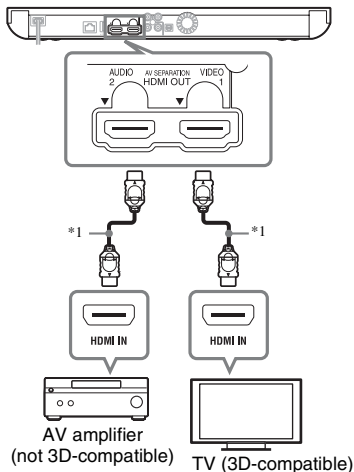


About AV Separation Mode

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 34).

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.

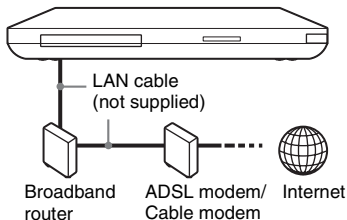
*4 Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other

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*5 See "Supplied accessories" (page 40).

Step 2: Preparing for Network Connection

Wired Setup

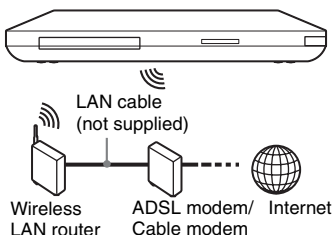
Use a LAN cable to connect to the LAN (100) terminal on the player.



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:

For customers in European countries

<http://support.sony-europe.com/>

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

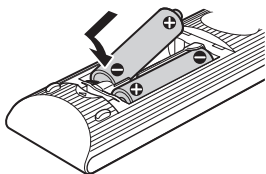
– consult the manufacturer of the wireless LAN router.

Step 3: Easy Setup

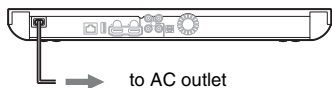
When turned on for the first time

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

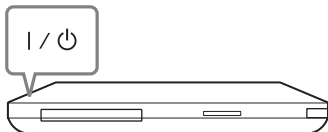
- 1 Insert two R6 (Size AA) batteries by matching the \oplus and \ominus ends on the batteries to the markings inside the battery compartment.



- 2 Plug the player into the mains.



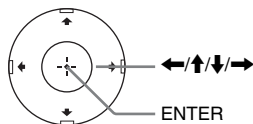
- 3 Press I/⏻ to turn on the player.



- 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.

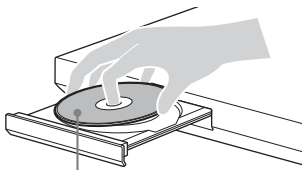


Playback




Playing a Disc

For playable discs, see “Playable discs” (page 40).

- 1 Switch the input selector on your TV so that the signal from the player appears on your TV screen.
- 2 Press **▲**, and place a disc on the disc tray.



Playing side facing down

- 3 Press **▲** 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.

*  **BD-LIVE™**


- 1 Connect a USB memory to the USB jack on the rear of the player (page 10).

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 16).
 - Set [BD Internet Connection] 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 [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 29).
- 2 Insert a Blu-ray 3D Disc. The operation method differs depending on the disc. Refer to the

instruction manual supplied with the disc.

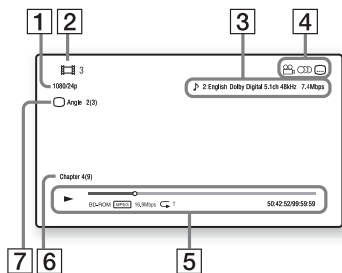


Refer also to the instruction manuals supplied with your TV and the connected device.

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 42).

- 1 **Connect the USB device to the USB jack on the player (page 9).**
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.



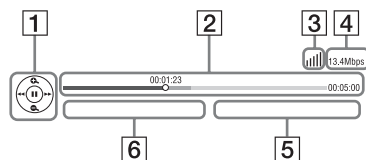
- Some Internet content requires registration via a PC before it can be played.
- Some Internet content may not be available in some regions/countries.

- 1 Connect the player to a network (page 16).**
- 2 Press SEN.**
- 3 Select the Internet content and a variety of on-demand entertainment using ←/↑/↓/→, 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.

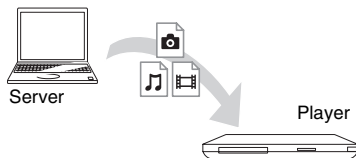


- 1 Control display**
Press ←/↑/↓/→ or ENTER for playback operations.
- 2 Playing status bar**
Status bar, Cursor indicating the current position, Playing time, Duration of the video file
- 3 Network condition**
 indicates the signal strength for wireless connection.
 indicates the wired connection.

- 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.

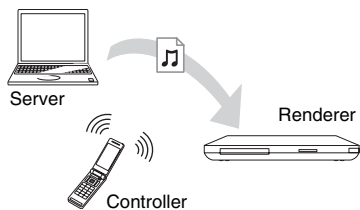


- 1 Prepare for using DLNA.**
 - Connect the player to a network (page 16).
 - Prepare the other necessary DLNA-compatible products. Refer to the instruction manual supplied with the product.
- 2 Select the DLNA Server icon from [Video], [Music], or [Photo] on the home menu.**
- 3 Select the file you 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

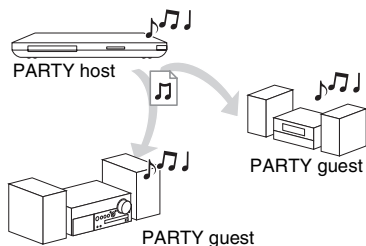
DLNA Controller-compatible product (a phone, etc.) to control playback.



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 16).
- 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 16).

2 Insert a disc you want to search.

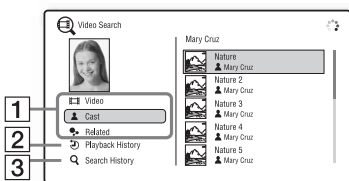
- Video: For a BD-ROM or DVD-ROM only
- Music: For a CD-DA only

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.

Item	Details
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 start	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.
Switch 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 16).**
- 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.

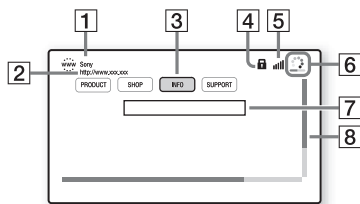
To quit the Internet browser

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

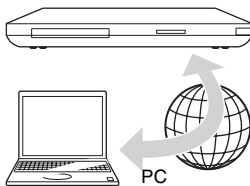
Various settings and operations are available by pressing **OPTIONS**. The available items differ depending on the situation.

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 16).
- Connect the web camera with microphone to the USB jack (page 9).

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:

For customers in European countries

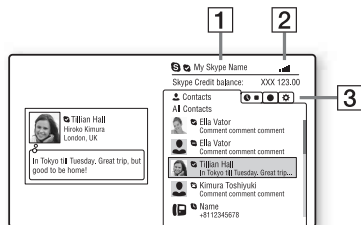
<http://support.sony-europe.com/>

For customers in Australia/New Zealand

<http://www.sony-asia.com/support/>

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

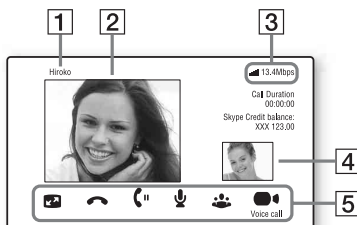
Press HOME.

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
Switch 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.






Settings and Adjustments






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 **←/→**.
- 2 Select the setup category icon using **↑/↓**, and press **ENTER**.

Icon	Explanation
	Network Update (page 29) Updates the software of the player.
	Screen Settings (page 29) Makes the video settings according to the type of connecting jacks.
	Audio Settings (page 31) Makes the audio settings according to the type of connecting jacks.
	BD/DVD Viewing Settings (page 32) Makes detailed settings for BD/DVD playback.
	Parental Control Settings (page 33) Makes detailed settings for the Parental Control function.

Icon	Explanation
	Music Settings (page 33) Makes detailed settings for Super Audio CD playback.
	System Settings (page 33) Makes the player-related settings.
	Network Settings (page 34) Makes detailed settings for the Internet and network.
	Easy Setup (page 35) Re-runs the Easy Setup to make the basic settings.
	Resetting (page 35) 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:

For customers in European countries

<http://support.sony-europe.com/>

For customers in Australia/New Zealand

<http://www.sony-asia.com/support/>

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 colour 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 Colour Output

Auto: Normally select this.

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

Off: Select this when the picture is unstable or colours 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 colour.

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 44).

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 44).

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 44).

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 Channels

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 Standby

On: Automatically returns to standby mode if no button is pressed for more than 30 minutes.

Off: Turns off the function.

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 29).

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 16).

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:

For customers in European countries
<http://support.sony-europe.com/>

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 Set-up

Automatic 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.



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 13).
- ➔ 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 30).
- ➔ When the analogue signals are also output, set [BD-ROM 24p Output] or [DVD-ROM 24p Output] to [Off] in the [Screen Settings] setup (page 30).
- ➔ For BD-ROMs, check the [BD-ROM 24p Output] setting in the [Screen Settings] setup (page 30).

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

- ➔ When [Control for HDMI] 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 13).
- ➔ 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 31).
- ➔ 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 34). Set [AV Separation Output Mode] to [Off], or connect the AV amplifier to the HDMI

OUT 2 jack (See “About AV Separation Mode” (page 15)).

- ➔ 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 31).

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 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] to [On] in the [Audio Settings] setup (page 31).

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 40).
- ➔ The player cannot play a recorded disc that has not been correctly finalised.
- ➔ 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 programmes 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 16) and the network settings (page 34).

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 29) 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 35).

"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 33).
- ➔ 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 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 mains lead, 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 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 [HDMI:Linked to TV-off] are set to [On] (page 33).

Others

Playback does not start from the beginning of content.

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

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 9).
- ➔ When “D ON” appears, contact your Sony dealer or local authorised 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/O** 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 authorised Sony service facility and give the error code.
- ➔ When “TEMP” appears, try the following:
 - ① Check 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 3).
- ➔ 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 mains lead.

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

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 1-13

Modulation:

DS-SS Modem and OFDM Modem

General

Power requirements:

220–240 V AC, 50/60 Hz

Power consumption:

21 W

Dimensions (approx.):

430 mm × 193 mm × 42 mm (width/depth/height) incl. projecting parts

Mass (approx.):

1.9 kg

Operating temperature:

5 °C to 35 °C

Operating humidity:

25 % to 80 %

Supplied accessories

Audio/video cable (phono plug ×3) (1) (models for Australia and New Zealand only)

Remote commander (remote) (1)

R6 (Size AA) batteries (2)

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 finalised. 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

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

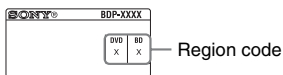
Some playback operations of BDs/ DVDs may be intentionally set by software producers. Since this player plays BDs/DVDs according to the disc contents the software producers designed, some playback features may not be available.

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 labelled 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 finalised.

*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 recognise 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 recognise 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 recognise 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 centre 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- I/C , 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	24
LG/Goldstar	76
Loewe	45
Panasonic	17, 49
Philips	06, 08, 72
Samsung	71
Sharp	29
Toshiba	38

Language code list

For details, see "BD/DVD Viewing Settings" (page 32).

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

Code Language

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
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; Pusho	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

Code Language

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 33).

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:

For customers in European countries

<http://support.sony-europe.com/>

For customers in Australia/New Zealand

<http://www.sony-asia.com/support/>



To find out useful hints, tips and information about Sony products and services please visit: www.sony-europe.com/myproduct/



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

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