SONY

Blu-ray Disc™ / DVD Player

Operating Instructions

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

Getting Started	
Playback	
Settings and Adjustments	
Additional Information	



Owner's Record

The model and serial numbers are located at the bottom 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

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

- The nameplate is located on the bottom of the unit.
- 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.

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: 2878D-J20H086

For Customers in Canada

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- 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.

- 5 150 5 250 MHz band is restricted to indoor. operations only.
- High-power radars are allocated as primary users (i.e. priority users) of the bands 5 250 -5 350 MHz and 5 650 - 5 850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

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

Pour les consommateurs Aux États-Unis. Non applicable au Canada, v 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 operated 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: MCLJ20H086

Compliance with FCC requirement 15.407©

Data transmision is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several speacial packets are initiated by MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

Frequency Tolerance: ± 20 ppm

Important Safety Instructions

- 1) Read these instructions.
- Keep these instructions.
- Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 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.
- 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.

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 henzine

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.

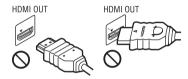
On replacement of parts

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 AACS (Advanced Access Content System) and CSS (Content Scramble System), may contain some restrictions on playback, analog output, and other similar features. The operation of this product and the restrictions placed may vary depending on the date of purchase, as the governing board of the AACS may adopt or change its restriction rules after the time of purchase.

Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

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Software License Information

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://oss.sony.net/Products/Linux

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

Disclaimer regarding services offered by third parties

Services offered by third parties may be changed, suspended, or terminated without prior notice. Sony does not bear any responsibility in these sorts of situations.

Contents

- 2 WARNING
- 4 Precautions

Getting Started

- 10 Guide to Parts and Controls
- 15 Step 1: Connecting the Player
- 16 Step 2: Preparing for Network Connection
- 16 Step 3: Easy Setup

Playback

- 18 Playing a Disc
- 20 Playing from a USB Device
- 20 Playing via a Network
- 22 Listening to Audio from a Bluetooth Device
- 23 Available Options

Settings and Adjustments

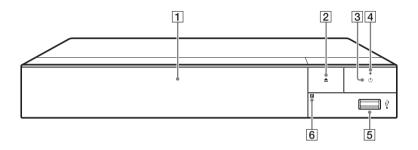
- 25 Using the Settings Displays
- 25 [Software Update]
- 25 [Accessibility Settings]
- 26 [Screen Settings]
- 28 [Audio Settings]
- 29 [Bluetooth Settings]
- 30 [BD/DVD Viewing Settings]
- 30 [Parental Control Settings]
- 31 [Music Settings]
- 31 [System Settings]
- 32 [Network Settings]
- 33 [Easy Network Settings]
- 33 [Resetting]

Additional Information

- 34 Troubleshooting
- 39 Specifications

Guide to Parts and Controls

Front panel



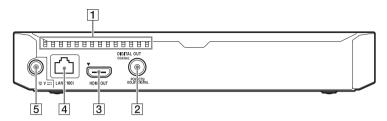
- 1 Door tray
- 2 ≜ (open/close)
- (on/standby)
 Turns on the player, or sets to standby mode.
- [4] Power indicator
 Lights up when the player is turned on.
- 5 y (USB) jack
 Connect a USB device to this jack.
- 6 Remote sensor

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.

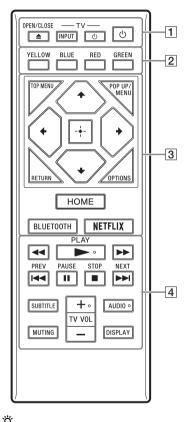
Rear panel

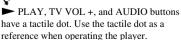


- 1 Ventilation holes
- 2 DIGITAL OUT (COAXIAL) jack
- 3 HDMI OUT jack
- 4 LAN (100) terminal
- 5 DC IN 12 V (AC adaptor input) jack

Remote

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





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.

Opens or closes the disc tray.

-TV- INPUT

Switches between TV and other input sources.

-TV- () (on/standby)

Turns on the TV, or sets to standby mode.

() (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 23)

Displays the available options on the screen.

RETURN

Returns to the previous display.

←/1/**↓**/**→**

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.
- ↑/↓ as a shortcut key to rotate photo clockwise/counterclockwise by 90 degrees.

 ←/→ as a shortcut key to perform search functions during DLNA video playback.

Center button (ENTER)

Enters the selected item.

HOME

Enters the player's home screen.

BLUETOOTH (page 22)

- Scan device list will appear if this player has no paired Bluetooth device.
- Connect to the last connected device if this player has a paired Bluetooth device. If the connection fails, scan device list will appear.
- Disconnect the connected Bluetooth device.

NETFLIX

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

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

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.

I◀◀ PREV/NEXT ▶▶I

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

II PAUSE

Pauses or re-starts playback.

■ STOP

Stops playback and remembers the stop point (resume point).

The resume point for a title/track is the last point you played or the last photo for a photo folder.

SUBTITLE (page 30)

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

TV VOL +/-

Adjusts the TV volume.

AUDIO (page 30)

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 19)

Displays the playback information on the screen

Code numbers of controllable TVs

Hold down -TV- (b) and the TV manufacturer's code using the remote buttons for 2 seconds.

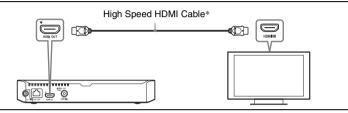
Manufacturer	Remote Button
Sony (Default)	Color button (YELLOW)
Hitachi	Color button (BLUE)
LG/Goldstar/NEC	Color button (RED)
Toshiba	Color button (GREEN)
RCA	TOP MENU
Mitsubishi/MGA	†
Pioneer	POP UP/MENU
Sharp	←
Panasonic	ENTER
Samsung	→
Philips	RETURN

Step 1: Connecting the Player

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

Connecting to your TV

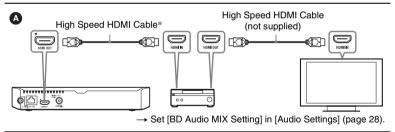
Connect the player to your TV with a High Speed HDMI Cable.

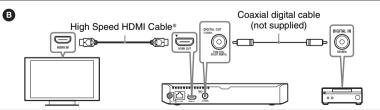


^{*} See "Supplied accessories" (page 39).

Connecting to your AV amplifier (receiver)

Select one of the following connection methods according to the input jacks on your AV amplifier (receiver).





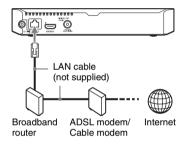
^{*} See "Supplied accessories" (page 39).

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 16).

Wired Setup

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

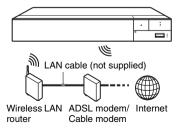




The use of a shielded and straight interface cable (LAN cable) is recommended.

Wireless Setup

Use the wireless LAN that is built into the player.



Step 3: Easy Setup

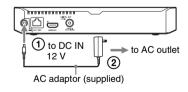
When turned on for the first time

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 ⊕ and
⊝ ends on the batteries to the
markings inside the battery
compartment of the remote.



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

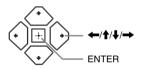


 $\mathbf{3}$ Press $\mathbf{0}$ to turn on the player.



- 4 Turn on the TV and set the input selector on your TV by pressing INPUT button on the remote. 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

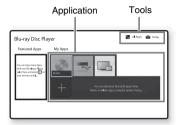


Ø

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

Home screen display

The home screen appears when you press HOME. Select an application using $\leftarrow/\uparrow/\downarrow/\rightarrow$, and press ENTER.



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

[Featured Apps]: Displays recommended application.

[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].

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

Playback

Playing a Disc

For "Playable discs", see page 40.

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



Playing side facing down

3 Press OPEN/CLOSE to close the disc tray.

Playback starts.

If playback does not start automatically, select [Video], [Music], or [Photo] category in

◆ (Disc), and press ENTER.



(Mixed disc) contains data contents. Press OPTIONS on the remote and select [Data Contents] to display 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.

BD LIVE ...

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

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

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

- Connect the player to a network (page 16).
- Set [BD Internet Connection] in [BD/DVD Viewing Settings] to [Allow] (page 30).

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.



Prepare for Blu-ray 3D Disc playback.

- Connect the player to your 3Dcompatible devices using a High Speed HDMI Cable.
- Set [3D Output Setting] and [TV Screen Size Setting for 3D] in [Screen Settings] (page 26).

2 Insert a Blu-ray 3D Disc.

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

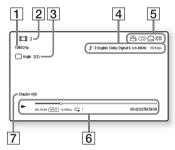


Refer also to the instruction manuals supplied with your TV and the connected device.

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 settings
- Available functions (angle, angle, subtitle, cc closed caption)
- 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 41.

- 1 Connect the USB device to the USB jack on the player (page 10).
 Refer to the instruction manual supplied with the USB device before connecting.
- 2 Select = [USB device] using ←/↑/↓/→, and press ENTER.
- 3 Select [Video], [Music], or [Photo] category using ↑/♣, and press ENTER.

Playing via a Network

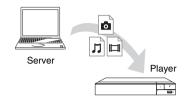
Playing files on a Home Network (DLNA)

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 16).
- Prepare the other necessary DLNA-compatible products.
 Refer to the instruction manual supplied with the product.

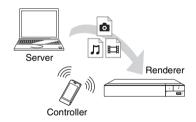
To play a file from a DLNA server via this unit (DLNA player)



Select [Video], [Music], or [Photo] 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 Spotify Connect

Listen out loud with Spotify Connect

- 1 Connect your player to your wifi network.
- 2 Open up the Spotify app on your phone, tablet or laptop using the same wifi network
- **3** Play a song and select Devices Available.
- **4** Select your player and start listening.

Ø

Spotify app may not be available in some countries/regions.

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.

6

- When using Screen mirroring, the quality of picture and sound may sometimes be deteriorated due to interference from other network. You may improve by adjusting [Screen mirroring RF Setting] (page 32).
- 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.

- 1 Select [Screen mirroring] from home screen using ←/↑/↓/→, and press ENTER.
- 2 Follow the on-screen instructions.

Listening to Audio from a Bluetooth Device

To listen to an audio source from a Bluetooth device (e.g. headphone) via this player, you need to pair the Bluetooth device with this player.

Pairing with a Bluetooth device

Pairing is an operation where the Bluetooth devices are registered to each other before connection. Set [Bluetooth Mode] in [Bluetooth Settings] to [On] (page 29) before pairing a Bluetooth device with this player.

1 Place the Bluetooth device within 1 meter from the player.

Perform any of the following steps:

- When connecting to a device for the first time, press BLUETOOTH button on the remote.
- Select [Bluetooth Device] option on the playback screen.
- Select [Device List] in [Bluetooth Settings].

3 Set the Bluetooth device in pairing mode.

For details on setting the Bluetooth device in pairing mode, refer to the instruction manual supplied with the device

4 Press ↑/↓ repeatedly to select the device you want, and press ENTER

When the Bluetooth connection is established, the device name will appear on the TV screen.

5 Start playback content.

6 Adjust the volume.

Adjust the volume of the Bluetooth device first. If the volume level is still low, adjust the volume level by pressing OPTIONS on the remote during playback screen and select [Bluetooth Volume]. Then, press \(\bigstyle\

Ø

Some Bluetooth device does not support volume control.

To disconnect the Bluetooth device

Perform any of the following steps:

- Press BLUETOOTH button on the remote (page 13).
- Disable the Bluetooth function on the Bluetooth device.
- Turn off the player or the Bluetooth device.



Before you turn off your Bluetooth device, turn down the volume level of your TV to avoid sudden high volume outbursts.

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.
- [Bluetooth Device]: Displays Bluetooth device list.
- **[Bluetooth Volume]:** Displays the Bluetooth volume control view. This option item is only available when the Bluetooth device is connected.
- [Accessibility]*1*2:
 - -[Screen Reader]
 - -[Enlarge]
 - -[Closed Captions]*3

()

- [Accessibility] is only available when [Accessibility Shortcut] in [Accessibility Settings] is set to [On].
- *2 [Accessibility] is not available during photo or music playback.
- [Closed Captions] is only available during video playback.

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]: 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.

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).
- [Shuffle Setting]: Set to [On] to playback music files in randomized order.

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.

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 \uparrow/\downarrow , and press ENTER.



■ [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 16).

■ [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.

 Make sure to operate the player using the supplied remote when updating.

■ [Screen Reader Settings]

[Screen Reader]

[On]: Turns on the function. [Off]: Turns off the function.

[Speech Rate]

[Very Fast] / [Fast] / [Normal] / [Slow] / [Very Slow]: Sets the reading speed.

[Speech Volume]

[High] / [Medium] / [Low]: Sets the reading volume.

[Prioritize Speech Audio]

[On]: Lowers the background sound volume when the sound overlaps with the read-out speech or the auditory signal.

[Off]: Turns off the function.

[Speech Verbosity]

[High]: Read-out in detailed style. [Low]: Read-out in simplified style.



This setting works with NETFLIX service only.

■ [Enlarge]

[On]: Text is displayed in large size. [Off]: Text is displayed in normal size.

■ [Auto-Scroll Speed]

[Fast]/[Normal]/[Slow]/[Very Slow]: Sets the speed of automatic text scrolling.

■ [Accessibility Shortcut]

[On]: Turns on the shortcut in [Options] window.

[Off]: Turns off the shortcut.

[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 1920×1080 p/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 1920×1080 p/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 \times 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]

[Video - Strong]/[Video - Medium]/ [Video - Mild]/[Film - Mild]/ [Film - Medium]/[Film - Strong]: 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.



[Bluetooth Settings]

■ [Bluetooth Mode]

[On]: Enables Bluetooth settings and functions.

[Off]: Disables Bluetooth settings and functions.

■ [Device List]

Displays a list of paired and detected Bluetooth receivers when [Bluetooth Mode] is set to [On].

■ [Bluetooth Codec - AAC] / [Bluetooth Codec - LDAC]

This function is enabled when [Bluetooth Mode] is set to [On]. [On]: Enables AAC/LDAC codec. [Off]: Disables AAC/LDAC codec.

L3

This function is disabled during connection with a Bluetooth device.



LDAC is an audio coding technology developed by Sony that enables the transmission of High-Resolution (Hi-Res) Audio content, even over a Bluetooth connection. Unlike other Bluetooth compatible coding technologies such as SBC, it operates without any down conversion of the Hi-Res Audio content*, and allows approximately three times more data** than those other technologies to be transmitted over a Bluetooth wireless network with unprecedented sound quality, by means of efficient coding and optimized packetization.

- * Excluding DSD format contents.
- ** In comparison with SBC (Subband Coding) when the bitrate of 990 kbps (96/48 kHz) or 909 kbps (88.2/44.1 kHz) is selected.

■ [Wireless Playback Quality]

This function is enabled when [Bluetooth Mode] and [Bluetooth Codec - LDAC] is set to [On]. If sound output or network streaming is unstable, please select [Connection].

[Auto]: Sets the transmission data rate for LDAC automatically.

[Sound Quality]: The highest data rate is used. Sound is sent at a higher quality, but audio playback may become unstable if the link quality is not sufficient.

[Standard]: A medium data rate is used. This provides a balance between sound quality and playback stability. [Connection]: Stability is prioritized. The sound quality may be reasonable and the connection status will most likely be stable.

[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 44).

■ [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

Select [Select Language Code], and enter the code for your language, referring to "Language code list" (page 44).

■ [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 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

■ [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]

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.

■ [DUALSHOCK(TM)4 wireless controller]

You can register and manage your wireless controller here. Follow the onscreen instructions.



DUALSHOCKTM4 wireless controller uses Bluetooth technology. Check that [Bluetooth Mode] in [Bluetooth Settings] is set to [On] (page 29).

■ [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.

■ [Software Update Notification]

[On]: Sets the player to inform you of newer software version information (page 25).

[Off]: Turns off the function.

■ [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 16).

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

[Wireless Setup]: 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 FAO contents:

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

■ [Network Connection Status]

Displays the current network status.

■ [Network Connection Diagnostics1

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 Home Network Access Permission1

[On]: Allows automatic access from newly detected DLNA controllercompatible product.

[Off]: Turns off the function.

■ [Home Network Access Control]

Displays a list of DLNA controllercompatible 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]: Allows you to turn on the player by a device linked via a network.

[Off]: Turns off the function.

[Easy Network Settings]

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.

6)

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 15).
- → 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 [Screen Settings] (page 26).
- → For BD-ROMs/DVD-ROMs/Data content/Network content, check the [24p Output] settings in [Screen Settings] (page 27).

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 31), the display language on the screen automatically switches according to the language setting of the connected TV (if you change the setting on your TV, etc.).

Sound

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

- Check that all the connecting cables are securely connected (page 15).
- Switch the input selector on your AV amplifier (receiver) so that the audio signals of the player are output from your AV amplifier (receiver).
- → If the audio signal does not come through the DIGITAL OUT (COAXIAL)/HDMI OUT jack, check the audio settings (page 28).
- → 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 28).

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 28).
- 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 28).

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 40).
- → 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).

There is no options menu during Internet streaming.

→ Options menu is not available during Internet streaming.

Network connection

The player cannot connect to the network.

→ Check the network connection (page 16) and the network settings (page 32).

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 25) to update the player to a newer software version.

Bluetooth connection

Bluetooth connection cannot be done/completed.

- → Set [Bluetooth Mode] to [On] (page 29).
- → Make sure the Bluetooth device to be connected is turned on and the Bluetooth function is enabled.
- → Move the Bluetooth device closer to the player.
- → Connect this player and the Bluetooth device again. You may need to cancel the connection with this player using your Bluetooth device first.
- Delete pairing information once from the device list and connected device, before retrying connection.
- Connection may not be possible if other Bluetooth devices are present around the player. In this case, turn off the other Bluetooth devices.

→ The connection registration information has been erased. Perform the connection operation again.

There is no sound, the sound skips or fluctuates, or the connection is lost.

- → Move the Bluetooth device closer to the player.
- → Make sure the player is not receiving any interference from a Wi-Fi network, other Bluetooth device, other 2.4 GHz wireless device, or microwave oven.
- Check that the Bluetooth connection is properly made between this player and the Bluetooth device.
- Connect this player and the Bluetooth device again.
- → Keep the player away from metal objects or surfaces.

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 31).
- → 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 31).

- 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: ①Switch the input selector of the AV amplifier (receiver) so that the picture from the player appears on the TV screen. ②Set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 31). 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 31).

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 10).

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

Specifications and design are subject to change without notice.

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

* Do not use for power charging purposes.

DC IN:12 V DC, 850 mA

Wireless

Wireless LAN standard:

Protocol IEEE802.11 a/b/g/n

Frequency range:

2.4 GHz, 5 GHz band Modulation: DSSS and OFDM

Bluetooth Version: Bluetooth Version 4.1

Bluetooth

Communication system:

Bluetooth Specification v4.1

Output:

Bluetooth Specification Power Class 1

Maximum communication range:

Line of sight approx. 30 m

Frequency band: 2.4 GHz Modulation method: FHSS

Compatible Bluetooth Profiles:

A2DP v1.2 AVRCP v1.3

Supported Codecs: SBC, AAC, LDAC

Transmission range (A2DP):

- 20 Hz 40,000 Hz (LDAC in sampling 96 kHz and transmit by 990 kbps)
- 20 Hz 20,000 Hz (in sampling 44.1 kHz)

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

 $(10^{1}/8 \text{ in.} \times 7^{5}/8 \text{ in.} \times 1^{9}/16 \text{ in.})$ (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-M1210UC) (1)
- Remote commander (remote) (1)
- Size AAA (R03) batteries (2)
- * Supplied for BDP-BX670

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/

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 bottom 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	PS	.mpg, .mpeg	Dolby Digital, DTS, LPCM, MPEG
Video*1	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	PS*3	.mpg, .mpeg	Dolby Digital, DTS, LPCM, MPEG
MPEG-2 Video*2	TS*4	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
1.000	MKV*1	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
Xvid	AVI	.avi	Dolby Digital, LPCM, WMA9, MP3
Avid	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	MKV*1	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	MP4*1	.mp4, .m4v	AAC
	TS*1	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
MPEG4/AVC*5	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
VCI	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
WMV9*1*7	ASF	.wmv, .asf	WMA9, WMA 10 Pro
VVIVIV9	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
Motion JPEG*6	Quick Time	.mov	Dolby Digital, LPCM, AAC, MP3
IVIOLION JPEG	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*12	.wma
LPCM*11	.wav
FLAC*1	.flac, .fla
Dolby Digital*6*11	.ac3
DSF*1	.dsf
DSDIFF*1*13	.dff
AIFF*1	.aiff, .aif
ALAC*1	.m4a
Vorbis	.ogg
Monkey's Audio	.ape

Photo

Format	Extension
JPEG	.jpeg, .jpg, .jpe
PNG	.png*14
GIF	.gif*14
MPO	.mpo*6*15
BMP	.bmp*6*16

- *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
- *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 coded file such as Lossless.
- *13 The player does not play DST encoded files
- *14 The player does not play animated PNG or animated GIF files.
- *15 For MPO files other than 3D, the key image or the first image is displayed.
- *16 The player does not support 16bit BMP files



- 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.
- 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.
 - $-\ \mbox{up}$ 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.
- (5)
- 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.

Language code list

For details, see [BD/DVD Viewing Settings] (page 30).

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

Code	Language		
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; Pushto	1436	Portuguese
1463	Quechua	1481	Rhaeto- Romance
1482	Kirundi; Rundi	1483	Romanian
1489	Russian	1491	Kinyarwanda
1495	Sanskrit	1498	Sindhi
1501	Sangho; Sango	1502	Serbo- Croatian
1503	Singhalese; Sinhalese	1505	Slovak
1506	Slovenian	1507	Samoan
1508	Shona	1509	Somali
1511	Albanian	1512	Serbian
1513	Siswati; Swati	1514	Sesotho; Sotho southern
1515	Sundanese	1516	Swedish
1517	Swahili	1521	Tamil
1525	Telugu	1527	Tajik
1528	Thai	1529	Tigrinya
1531	Turkmen	1532	Tagalog
1534	Setswana; Tswana	1535	Tonga; Tonga islands
1538	Turkish	1539	Tsonga
1540	Tatar	1543	Twi
1557	Ukrainian	1564	Urdu
1572	Uzbek	1581	Vietnamese
1587	Volapük	1613	Wolof
1632	Xhosa	1665	Yoruba
1684	Chinese	1697	Zulu
1703	Not specified		
	•		

Parental control/area code

For details, see [Parental Control Area Code] (page 30).

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. To download any available updates and the Operating Instructions with advanced features, please visit the following website:

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

















http://www.sony.net/