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

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

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

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

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

CAUTION

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

Refer servicing to qualified personnel only.

Precautions

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

FCC WARNING

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

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

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or
television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

**Important Safety Instructions**

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**Owner’s Record**

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

Model No.______________
Serial No.______________

**For customers in the USA**

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

**For Customers in Canada**

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

**Precautions**

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

**On placement**

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- 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 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 power cord and all other cables from the player when you move the player.

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

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

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

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

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

On connecting to the HDMI OUT jack
Observe the following as improper handling may damage the HDMI OUT jack and the connector.
• Carefully align the HDMI OUT jack on the rear of the player and the HDMI connector by checking their shapes. Make sure the connector is not upside down or tilted.

  ![HDMI OUT](image)

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

  ![Disconnecting HDMI cable](image)

• 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.
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.

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.

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- “BRAVIA” is a trademark of Sony Corporation.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

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.
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Getting Started

Guide to Parts and Controls

Front panel

1. Disc tray
2. ▲ (open/close)
3. ▶ (play)
4. ■ (stop)
5. [ ▼ (on/standby) / Power indicator
   Turns on the player, or sets to standby mode.
6. ▼ (USB) jack
   Connect a USB device to this jack.
7. Remote sensor

The ▶ button has a tactile dot. Use the tactile dot as a reference when operating the player.

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, hold down the ▶ button on the player for more than 10 seconds to lock or unlock the tray.
Rear panel

1. LAN (100) terminal
2. HDMI OUT jack
3. DIGITAL OUT (COAXIAL) jack

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

1. **OPEN/CLOSE**
   - Opens or closes the disc tray.

2. **TV INPUT**
   - Switches between TV and other input sources.

3. **TV/ (on/standby)**
   - Turns on the TV, or sets to standby mode.

4. **/ (on/standby)**
   - Turns on the player, or sets to standby mode.

5. **Number buttons (0 - 9)**
   - Enters the title/chapter/track numbers, etc.
   - Track numbers are applicable to CD-DA (Music CD) only.
   - Adjusts the TV volume.
   - Selects the language track when multi-lingual tracks are recorded on BD-ROMs/DVD VIDEOS.
   - Selects the sound track on CDs.
   - Selects the subtitle language when multi-lingual subtitles are recorded on BD-ROMs/DVD VIDEOS.
   - Displays the playback information on the screen.

6. **Color buttons (YELLOW/BLUE/RED/GREEN)**
   - Shortcut keys for interactive functions.

Number 5, AUDIO, VOL +, and PLAY buttons have a tactile dot. Use the tactile dot as a reference when operating the player.

The player automatically returns to standby mode

If any button on the player or remote is not pressed for more than 30 minutes, the player automatically returns to standby mode.
4 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 18)
Displays the available options on the screen.

HOME
Enters the player’s home menu. Displays the wall paper when pressed on the category icon of the home menu.

RETURN
Returns to the previous display.

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

PAUSE
Pauses or re-starts playback.

PLAY
Starts or re-starts playback.

NETFLIX
Enables access to the “NETFLIX” online service.

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.

SEN (page 17)
Accesses the “Sony Entertainment Network™” online service.

Home menu display
The home menu appears when you press HOME. Select a category using ➤/➤. Select an item using ➤/➤, and press ENTER.

SETUP: Adjusts the player settings.
PHOTO: Displays photos.
MUSIC: Plays music.
VIDEO: Plays videos.
NETWORK: Displays network items.
Step 1: Supplied Accessories

Check that you have the following items:
- High Speed HDMI Cable (1) *
- Remote commander (remote) (1)
- Size AA (R6) batteries (2)

* Supplied for BDP-BX110 only

Step 2: Connecting the Player

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

Connecting to your TV

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

* See “Step 1: Supplied Accessories” (page 12).

Do not connect the player through a VCR. Video signals from VCRs can be affected by copyright protection systems that cause the picture on the TV to be distorted.
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 21).

A

- High Speed HDMI Cable* — Set [BD Audio MIX Setting] (page 21).
- High Speed HDMI Cable (not supplied)

B

- Coaxial digital cable (not supplied)

* See “Step 1: Supplied Accessories” (page 12).
Step 3: Preparing for Network Connection

If you are not going to connect the player to a network, proceed to “Step 4: Easy Setup” (page 14).

**Wired Setup**

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

- **LAN cable (not supplied)**
- **Internet**
- **ADSL modem/ Broadband router**

Using a shielded interface cable (LAN cable), straight or crossing, is recommended.

Step 4: 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 AA (R6) batteries by matching the and ends on the batteries to the markings inside the battery compartment.

2. Plug the player into the AC outlet.

3. Press to turn on the player.
4 Turn on the TV and set the input selector on your TV. This will show the signal from the player on your TV screen.

5 Perform [Easy Initial Settings].
   Follow the on-screen instructions to make the basic settings using \(<\) / \(\) \(\) \(\) \(\) and ENTER on the remote.

6 When [Easy Initial Settings] is complete, select [Easy Network Settings] to use the network functions of the player.
Playing a Disc

For playable discs, see page 30.

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.

3 Press OPEN/CLOSE to close the disc tray.
   Playback starts.
   If playback does not start automatically, select in the [Video], [Music], or [Photo] category, and press ENTER.

Enjoying BONUSVIEW/BD-LIVE

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

1 Connect a USB memory to the USB jack on the player (page 8). Use a 1 GB or larger USB memory as your local storage.

2 Prepare for BD-LIVE (BD-LIVE only).
   • Connect the player to a network (page 14).

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 the [Video] category, and press ENTER. All data stored in the buda folder will be erased.
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 setting
5. Available functions (angle, audio, subtitle)
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 31.

1. Connect the USB device to the USB jack on the player (page 8). Refer to the instruction manual supplied with the USB device before connecting.
2. Select [Video], [Music], or [Photo] category on the home menu using < or >.
3. Select [USB device] using M or m, and press ENTER.

Playing via a Network

Enjoying Sony Entertainment Network

Sony Entertainment Network serves as a gateway, delivering the selected Internet content and a variety of on-demand entertainment straight to your player.

- Some Internet content requires registration via a PC before it can be played. For further details, visit the following website: http://www.sony.com/bluraysupport/
- Some Internet content may not be available in some regions/countries.
1 Connect the player to a network (page 14).
2 Press SEN button on the remote.
3 Select an Internet content and a variety of on-demand entertainment using ←/↑/↓/→, and press ENTER.

**Video streaming control panel**
The control panel appears when the video file starts playing. The displayed items may differ depending on Internet content providers.
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 wired connection.
4 Network transmission speed
5 The file name of the next video
6 The file name of the current video

### Available Options

**Common options**
- [Repeat Setting]: Sets the repeat mode.
- [Play]/[Stop]: Starts or stops the playback.
- [Play from beginning]: Plays the item from the beginning.
- [Change Category]: Switches category between [Video], [Music] and [Photo] category.

- **[Video] only**
  - [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.
    - [BNR]: Reduces the mosaic-like block noise in the picture.
    - [MNR]: Reduces minor noise around the picture outlines (mosquito noise).
  - [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/DVDs. Selects the sound track on CDs.

[Subtitle]: Switches the subtitle language when multilingual subtitles are recorded on BD-ROMs/DVDs.

[Angle]: Switches to other viewing angles when multi-angles are recorded on BD-ROMs/DVDs.

[IP Content Noise Reduction]: Adjusts the picture quality of Internet contents.

[Music] only

[Add Slideshow BGM]: Registers music files in the USB memory as slideshow background music (BGM).

[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 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.

[Screen Settings]

- [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.

[Network Update]

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

- We recommend performing the network update every 2 months or so.
- For information about update functions, visit the following website: http://www.sony.com/bluraysupport/
Settings and Adjustments

- **[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.

- **[BD-ROM 24p Output]**
  - [Auto]: Outputs 1920 x 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.
  - [On]: Turns on the function.
  - [Off]: Select this when your TV is not compatible with 1080/24p video signals.

- **[DVD-ROM 24p Output]**
  - [Auto]: Outputs 1920 x 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.

- **[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. 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.

- **[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.

  - **[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).
[DTS Neo:6]
[Cinema]/[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 Cinema or 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.
Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 33).

[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.
Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 33).

[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 33).

[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.

[System Settings]

[OSD Language]
Selects on-screen display language for your player.

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

[Startup Screen]
Set the startup screen when turning on the player.
[Network Service Screen]: Starts on Sony Entertainment Network portal screen.
[Home Menu Screen]: Starts on home menu.
[Quick Start Mode]
[On]: Shortens the startup time when turning on the player.
[Off]: Reduces standby power consumption.

[Auto Display]
[On]: Automatically displays information on the screen when changing the viewing titles, picture modes, audio signals, etc.
[Off]: Displays information only when you press DISPLAY.

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

[Software Update Notification]
[On]: Sets the player to inform you of newer software version information (page 20).
[Off]: Turns off the function.

[System Information]
Displays the player’s software version information and the MAC address.

[Software License Information]
Displays information about the Software License.
[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.
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 12).
- 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 \[\] on the player for more than 10 seconds.
- Try the following: 1) Turn the player off and on again. 2) Turn the connected equipment off and on again. 3) Disconnect and then reconnect the HDMI cable.
- The HDMI OUT jack is connected to a DVI device that does not support copyright protection technology.
- Check the [Output Video Resolution] settings in the [Screen Settings] setup (page 21).
- For BD-ROMs, check the [BD-ROM 24p Output] setting in the [Screen Settings] setup (page 21).
- For DVD-ROMs, check the [DVD-ROM 24p Output] setting in the [Screen Settings] setup (page 21).

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 23), 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 12).
- 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 21).
- For HDMI connections, try the following: 1) Turn the player off and on again. 2) Turn the connected equipment off and on again. 3) Disconnect 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 21).

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

- Check that the connected AV amplifier (receiver) is compatible with each HD Audio format.

The interactive audio is not output.


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 5).

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 30).
- 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.

The picture/sound is poor/certain programs 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).

The picture/sound is small.

- Press ‡ to zoom in.
The player cannot connect to the network.

⇒ Check the network connection (page 14) and the network settings (page 24).

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

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

⇒ Check that [Control for HDMI] in [HDMI Settings] is set to [On] (page 23).

⇒ 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 23).

⇒ Check the following and refer to the instruction manual supplied with the component.

– the connected component is compatible with the [Control for HDMI] function.

– the connected component’s setting for the [Control for HDMI] function is correct.

When you connect the player to a TV through an AV amplifier (receiver),

– if the AV amplifier (receiver) is not compatible with the [Control for HDMI] function, you may be unable to control the TV from the player.

– if you change the HDMI connection, disconnect and reconnect the AC power cord, or a power failure occurs, try the following:

○ Switch the input selector of the AV amplifier (receiver) so that the picture from the player appears on the TV screen.

○ Set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 23). 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] (page 23).

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.

⇒ Check that [Control for HDMI] in [HDMI Settings] is set to [On] (page 23).

⇒ If power failure occurs, set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 23). Refer to the instruction manual supplied with the AV amplifier (receiver).

⇒ 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.
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 5).

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

- Try the following: ①Turn the player off, and disconnect the AC power cord. ②Reconnect the AC power cord while pressing down $\Delta$ on the player. ③Keep pressing down $\Delta$ on the player until the tray opens. ④Remove the disc. ⑤Hold down $\lceil\text{or}\rceil$ on the player for more than 10 seconds until the player turns off.

The player does not respond to any button.

- Moisture has condensed inside the player (page 4).
- Hold down $\lceil\text{or}\rceil$ on the player for more than 10 seconds until the player turns off.
  If the player still does not respond to any button, disconnect then reconnect the AC power cord.

Specifications

System
Laser: Semiconductor laser

Inputs and outputs
(Jack name: Jack type/Output level/Load impedance)
DIGITAL OUT (COAXIAL): Phono jack/0.5 Vp-p/75 ohms
HDMI OUT: HDMI 19-pin standard connector
LAN (100): 100BASE-TX Terminal
USB: USB jack Type A, maximum current 500 mA (For connecting USB device)

General
Power requirements: 120 V AC, 60 Hz
Power consumption: 8.8 W
Dimensions (approx.): 290 mm × 199 mm × 43 mm (11 1/2 in. × 7 5/8 in. × 1 3/4 in.) (width/depth/height) incl. projecting parts
Mass (approx.): 1.1 kg (2 lb 7 oz)
Operating temperature: 5°C to 35°C (41°F to 95°F)
Operating humidity: 25 % to 80 %

Supplied accessories
See page 12.

Specifications and design are subject to change without notice.
**Playable discs**

<table>
<thead>
<tr>
<th>Blu-ray Disc</th>
<th>BD-ROM</th>
<th>BD-R*2</th>
<th>BD-RE*2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD*3</td>
<td>DVD-ROM</td>
<td>DVD-R/DVD-RW</td>
<td>DVD+R/DVD+RW</td>
</tr>
<tr>
<td>CD*3</td>
<td>CD-DA (Music CD)</td>
<td>CD-ROM</td>
<td>CD-RCD-RW</td>
</tr>
</tbody>
</table>

*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.

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

**Note on Discs**

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

**Note on playback operations of BDs/DVDs**

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

**Note about double-layer BDs/DVDs**

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

**Region code (BD-ROM/DVD VIDEO only)**

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

#### Video

<table>
<thead>
<tr>
<th>Codec</th>
<th>Container</th>
<th>Extension</th>
<th>With Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPEG-1 Video</td>
<td>PS</td>
<td>.mpg, .mpeg</td>
<td>Dolby Digital, DTS, LPCM, MPEG</td>
</tr>
<tr>
<td>MPEG-2 Video</td>
<td>PS</td>
<td>.mpg, .mpeg</td>
<td>Dolby Digital, DTS, LPCM, MPEG</td>
</tr>
<tr>
<td></td>
<td>TS</td>
<td>.m2ts, .mts</td>
<td>Dolby Digital, DTS, LPCM, MPEG, AAC</td>
</tr>
<tr>
<td></td>
<td>Xvid</td>
<td>AVI</td>
<td>Dolby Digital, LPCM, WMA9, MP3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKV</td>
<td>Dolby Digital, LPCM, AAC, MP3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKV</td>
<td>Dolby Digital, LPCM, AAC, MP3</td>
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<tr>
<td></td>
<td></td>
<td>MP4</td>
<td>AAC</td>
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<tr>
<td></td>
<td></td>
<td>TS</td>
<td>Dolby Digital, DTS, LPCM, MPEG, AAC</td>
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<tr>
<td></td>
<td></td>
<td>Quick Time</td>
<td>Dolby Digital, LPCM, AAC, MP3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.3gp, .3g2, .3gpp, .3gp2</td>
<td>AAC</td>
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<tr>
<td></td>
<td>Xvid</td>
<td>VC1</td>
<td>Dolby Digital, DTS, LPCM, MPEG, AAC</td>
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<td></td>
<td>WMV9</td>
<td>WMA9</td>
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<td></td>
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<td>Motion JPEG</td>
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<td></td>
<td>Quick Time</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>AVI</td>
<td></td>
</tr>
</tbody>
</table>

#### Format

**AVCHD (Ver.2.0)**

#### Codec

<table>
<thead>
<tr>
<th>Extension</th>
<th>Codec</th>
</tr>
</thead>
<tbody>
<tr>
<td>.mp3</td>
<td>MP3 (MPEG-1 Audio Layer III)</td>
</tr>
<tr>
<td>.m4a</td>
<td>AAC/HE-AAC</td>
</tr>
<tr>
<td>.wma</td>
<td>WMA9 Standard</td>
</tr>
<tr>
<td>.wav</td>
<td>LPCM</td>
</tr>
<tr>
<td>.flac</td>
<td>FLAC</td>
</tr>
<tr>
<td>.ac3</td>
<td>Dolby Digital</td>
</tr>
</tbody>
</table>

### Music

<table>
<thead>
<tr>
<th>Extension</th>
<th>Codec</th>
</tr>
</thead>
<tbody>
<tr>
<td>.mp3</td>
<td>MP3 (MPEG-1 Audio Layer III)</td>
</tr>
<tr>
<td>.m4a</td>
<td>AAC/HE-AAC</td>
</tr>
<tr>
<td>.wma</td>
<td>WMA9 Standard</td>
</tr>
<tr>
<td>.wav</td>
<td>LPCM</td>
</tr>
<tr>
<td>.flac</td>
<td>FLAC</td>
</tr>
<tr>
<td>.ac3</td>
<td>Dolby Digital</td>
</tr>
</tbody>
</table>

### Photo

<table>
<thead>
<tr>
<th>Extension</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>.jpeg, .jpg, .jpe</td>
<td>JPEG</td>
</tr>
<tr>
<td>.png</td>
<td>PNG</td>
</tr>
<tr>
<td>.gif</td>
<td>GIF</td>
</tr>
</tbody>
</table>
*1 The player can support AVC up to Level 4.1.

*2 The player can support frame rate up to 60 fps.

*3 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.

*4 The player can play “.mka” files.

*5 The player does not play animated PNG or animated GIF files.

Some files may not play depending on the file format, the encoding, or recording condition.

Some files edited on a PC may not play.

The player does not play coded files such as DRM and Lossless.

The player can recognize the following files or folders in BDs, DVDs, CDs and USB devices:
- up to folders in the 9th layer, including the root folder
- up to 500 files/folders in a single layer

The player can 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.

The player can support video resolution up to 1920 x 1080p.

Some USB devices may not work with this player.

The player can recognize Mass Storage Class (MSC) devices, 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.

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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. 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- [on], 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.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sony</td>
<td>01 (default)</td>
</tr>
<tr>
<td>Hitachi</td>
<td>02</td>
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<tr>
<td>LG/Goldstar</td>
<td>04</td>
</tr>
<tr>
<td>Mitsubishi/MGA</td>
<td>13</td>
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<tr>
<td>NEC</td>
<td>04</td>
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<td>Panasonic</td>
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<td>Philips</td>
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<td>Sharp</td>
<td>18</td>
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<tr>
<td>Toshiba</td>
<td>07</td>
</tr>
</tbody>
</table>

Language code list

For details, see [BD/DVD Viewing Settings] (page 22).
The language spellings conform to the ISO 639: 1988 (E/F) standard.

<table>
<thead>
<tr>
<th>Code</th>
<th>Language</th>
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<tr>
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<td>Corsican</td>
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<td>English</td>
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<td>1145</td>
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<td>Greenlandic; Kalaallisut</td>
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### Parental control/area code

For details, see [Parental Control Area Code](page 23).

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For details, see [Parental Control Area Code](page 23).
The software of this player may be updated in the future. For information about any available updates and the latest Operating Instructions, please visit the following website:

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