

## Ultra HD Blu-ray™ / DVD Player

### Operating Instructions

Thank you for your purchase. Before using this player, please read this operating instructions carefully. The software of this player may be updated in the future. Please visit the following website:

[www.sony.eu/support](http://www.sony.eu/support)

Getting Started

Playback

Settings and Adjustments

Additional Information



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### Internet Connection and IP address

Technical data such as IP address [or device details] is used when this product is connected to the internet for software update or receiving third party services. For software updates, these technical data may be communicated to our update servers in order to provide you with the software update appropriate to your device. If you do not want such technical data be used at all, do not set-up the wireless internet function and do not connect an internet cable.

# WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to dripping or splashing, and do not place objects filled with liquids, such as vases, on the appliance.

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

The AC power cord (mains lead) must be changed only at a qualified service shop.

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

## CAUTION

Risk of explosion if the battery is replaced by an incorrect type.

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

Refer servicing to qualified personnel only.

CAUTION	KLASS 3R VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EYE EXPOSURE.
VORSICHT	KLASSE 3R SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN GEÖFFNET. UNMITTELBAREN AUGENKONTAKT VERMEIDEN.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING AF KLASSE 3R VED ÅBNING. UNDGÅ AT SE DIREKTE PÅ STRÅLINGEN.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING I KLASSE 3R NÄR DEKSEL ÅPNES. UNNGÅ DIREKTE EXPOSITION AV ÖPPNE.
VARNING	KLASS 3R SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT DIREKT EXPOSERA ÖGONEN FÖR STRÅLNINGEN.
VARO!	RAUUTTUUN LASERIN 3R NÄKIVÄÄ JÄNNAHYVÄNTÖITÄ LASERSÄTELYÄ. VÄLTÄ KATSEEN SUORAAN AUKISTAMISTA.
DIKKAT	AÇILIĞINDA 3R SINIF GÖRÜLEBİLİR VE GÖRÜLEMEZ LASER RADIASYONU YAYAR. DİREKT GÖZ TEMASINDAN KAÇININ.
警告	打开时有3R类可见和不可见激光辐射，避免眼睛受到直射的光射
注意	打開時有第3R類可視及不可視雷射輻射，避免眼睛直接暴露。

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

CLASS 1 LASER PRODUCT
LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
1类激光产品
第1類雷射產品

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

## Notice for customers in the United Kingdom and Republic of Ireland

A molded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS1362, (i.e., marked with ⚡ or ⚡ mark) must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



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

This symbol on the product, the battery or in the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

This product has been manufactured by or on behalf of Sony Corporation.

EU Importer: Sony Europe Limited.

Inquiries to the EU Importer or related to product compliance in Europe should be sent to the manufacturer's authorized representative, Sony Belgium, *bijkantoor van Sony Europe Limited*, Da Vincilaan 7-D1, 1935 Zaventem, Belgium.

### Notice for the customers in Europe



Hereby, Sony Corporation declares that this equipment is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <http://www.compliance.sony.de/>

For this radio equipment, the following restrictions on putting into service or of requirements for authorisation of use apply in BE, BG, CZ, DK, DE, EE, IE, EL, ES, FR, HR, IT, CY, LV, LT, LU, HU, MT, NL, AT, PL, PT, RO, SI, SK, FI, SE, UK, IS, LI, NO, CH, AL, BA, MK, MD, RS, ME, XK, TR:

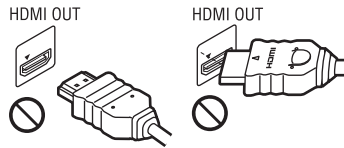
5,150 - 5,350 MHz band is restricted to indoor operations only.

## PRECAUTIONS

- This unit operates on 220 V - 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- Install this unit so that the AC power cord (mains lead) can be unplugged from the wall socket immediately in the event of trouble.
- This equipment has been tested and found to comply with the limits set out in the EMC Regulation using a connection cable shorter than 3 metres.
- 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 cover ventilation openings. This equipment is not intended to be used on soft support (like beddings, blankets 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.
- This player should be installed and operated with a minimum distance of at least 20 cm or more between the player and a person's body (excluding extremities: hands, wrists, feet and ankles).

- Do not place heavy or unstable objects on the player.
- Do not place any objects other than discs on the disc tray. Doing so may cause damage to the player or the object.
- Take out any discs from the tray when you move the player. If you don't, the disc may be damaged.
- Disconnect the AC power cord (mains lead) and all other cables from the player when you move the player.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Disconnect the player from the wall outlet if you are not going to use the player for a long time. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- Observe following points to prevent the AC power cord (mains lead) being damaged. Do not use the AC power cord (mains lead) if it is damaged, as doing so may result in an electric shock or fire.
  - Do not pinch the AC power cord (mains lead) between the player and wall, shelf, etc.
  - Do not put anything heavy on the AC power cord (mains lead) or pull on the AC power cord (mains lead) itself.
- 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.
- 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.
- Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.
- In the events that this player is repaired, repaired parts may be collected for reuse or recycling purposes.

- 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 ([www.sony.eu/myproducts/](http://www.sony.eu/myproducts/)) 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.

### 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 unauthorised 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.

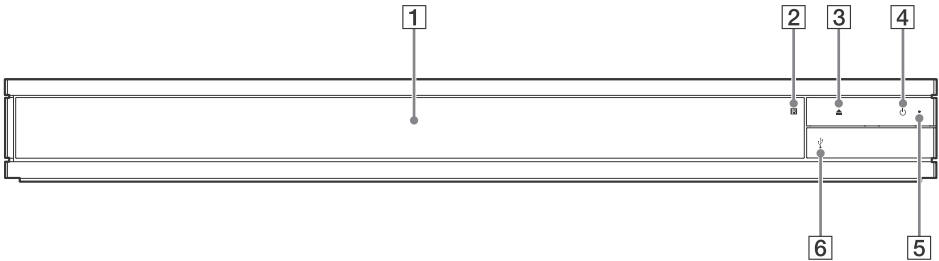
## Notes About the Discs

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



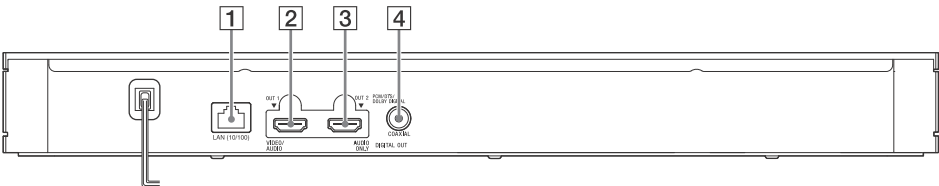
# Guide to Parts and Controls

## Front panel



- 1 Door tray**
- 2 Remote sensor**
- 3 ▲ (open/close)**
- 4 ⏻ (on/standby)**  
Turns on the player, or sets to standby mode.
- 5 Power indicator**  
Lights up when the player is turned on.
- 6 USB jack cover**  
Open the cover to connect a USB device to this jack. See page 15.

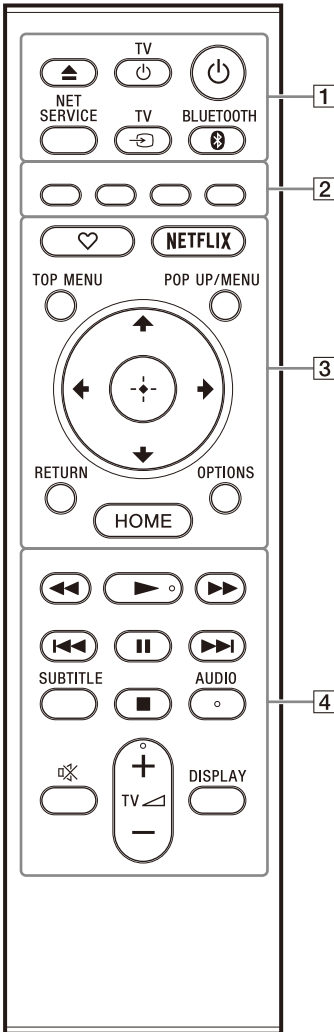
## Rear panel



- 1 LAN (10/100) terminal**
- 2 HDMI OUT 1 jack (VIDEO/AUDIO)**  
Outputs digital video and audio signal.
- 3 HDMI OUT 2 jack (AUDIO ONLY)**  
Outputs digital audio signal only. Please remove the attached sticker to use the jack.
- 4 DIGITAL OUT (COAXIAL) jack**

## Remote

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



▶, TV ◀, +, and AUDIO buttons have a tactile dot. Use the tactile dot as a reference when operating the player.

### 1 ▲ (open/close)

Opens or closes the disc tray.

### TV ⏻ (TV on/standby)

Turns on the TV, or sets to standby mode.

### ⏻ (on/standby)

Turns on the player, or sets to standby mode.

### NET SERVICE

Returns to the previous online service portal.

### TV ↺ (TV input select)

Switches between TV and other input sources.

### 📶 BLUETOOTH (page 16)

- 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.

### 2 Colour buttons (red/green/yellow/blue)

Shortcut keys for interactive functions.

### 3 ♥ (favourite) (page 14)

Accesses the application registered as favourite.

### NETFLIX

Accesses the Netflix online service. For further Netflix online service details, visit the following website and check the FAQ: [www.sony.eu/support](http://www.sony.eu/support)

### TOP MENU

Opens or closes the Ultra HD Blu-ray/BD/DVD's Top Menu.

### POP UP/MENU

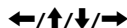
Opens or closes the Ultra HD Blu-ray/BD/DVD's menu.

### OPTIONS (page 18)

Displays the available options on the screen.

### RETURN

Returns to the previous display.



Moves the highlight to select a displayed item.





- **↑/↓** as a shortcut key to launch track search window and input track number during music CD playback.
- **↑/↓** as a shortcut key to rotate photo clockwise/counterclockwise by 90 degrees.
- **←/→** as a shortcut key to perform seek functions during Home Network video playback.
- **←/→** as a shortcut key to change still image when it is enabled to change.

**(ENTER)**

Enters the selected item.

**HOME**

Enters the player's home screen.

**4 ◀◀/▶▶ (fast reverse/fast forward)**

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

**▶ (play)**

Starts or re-starts playback.

**◀◀/▶▶ (previous/next)**

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

**|| (pause)**

Pauses or re-starts playback.

**SUBTITLE (page 24)**

Selects the subtitle language when multi-lingual subtitles are recorded on Ultra HD Blu-ray/BD/DVD.

**■ (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.

**AUDIO (page 24)**

Selects the language track when multi-lingual tracks are recorded on Ultra HD Blu-ray/BD/DVD.

Selects the sound track on CDs.

**🔇 (muting)**

Turns off the TV sound temporarily.

**TV 🔊 (volume) +/-**

Adjusts the TV volume.

**DISPLAY**


Displays the playback information on the screen.


**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** on the remote to lock or unlock the tray.

**Code numbers of controllable TVs**

Press and hold **TV** , and then press and hold the TV manufacturer's code using the remote button for more than 2 seconds. If more than one remote button is listed, try entering them one at a time until you find one that works with your TV.

Example: If your TV is Hitachi, press and hold **TV** , and then press and hold the colour button (green) for more than 2 seconds.

Manufacturer	Remote Button
Sony (Default)	NET SERVICE
Philips	TV  /  BLUETOOTH / POP UP/MENU
Panasonic	Colour button (red) / NETFLIX
Hitachi	Colour button (green)
Sharp	Colour button (yellow)
Toshiba	Colour button (blue)
Loewe	♥ (favourite)
Samsung	TOP MENU
LG/Goldstar	RETURN



This player's remote may not work with your TV, depending on the model or model year of the TV. In such a case, use the remote supplied with your TV.

## 1: Checking Supplied Accessories

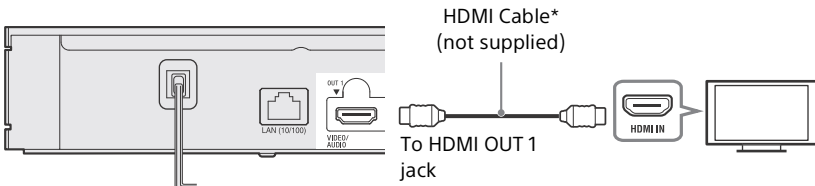
- Remote commander (remote) (1)
- R03 (size AAA) batteries (2)

## 2: Connecting to a TV or a Sound Bar/AV Amplifier

**Do not connect the mains lead until you have made all the connections.**

Various connection methods can be used to enjoy the player. Select a connection method according to the functions and jacks on your Sound Bar/AV amplifier (receiver).

### Connecting to your TV



\* Premium High Speed HDMI Cable or High Speed HDMI Cable that supports 18 Gbps bandwidth.

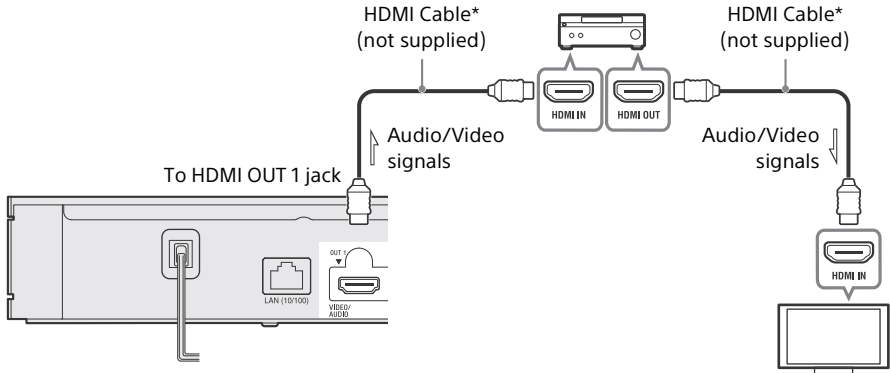


- To enjoy images in higher-definition HDMI formats (4K 60p/Ultra HD, 4K HDR, Dolby Vision, etc.), connect a TV that supports the video format to the player.
- To display images in higher-definition HDMI formats, you need to connect the player to your TV using a Premium High Speed HDMI Cable that supports 18 Gbps bandwidth (not supplied).
- If you are using BRAVIA TV, adjust the TV's "HDMI signal format" setting. For details, refer to the TV's instruction manual.
- To enjoy Dolby Vision, set [Dolby Vision Output] under [Screen Settings] on the player (page 20).
- If a Sound Bar/AV amplifier (receiver) is directly connected to the TV, refer to the connection methods on page 11.
- If you encounter any problems or need more information, refer to "Troubleshooting" (page 27).

## Connecting to your TV via a Sound Bar/AV amplifier (receiver)

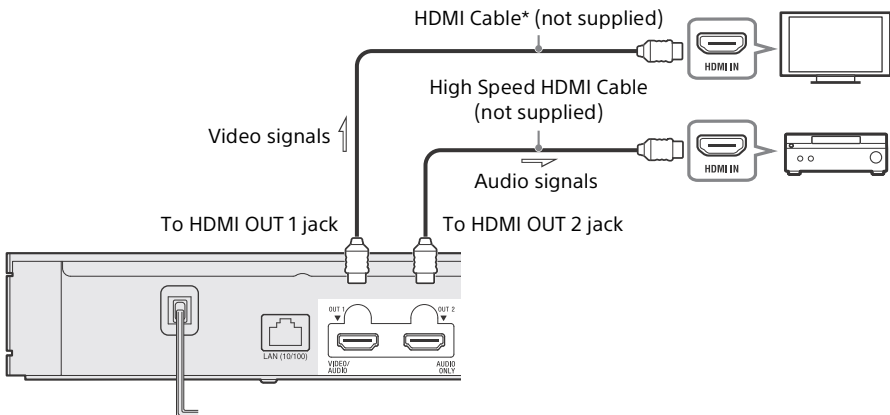
Select a connection method according to the functions and jacks on your Sound Bar/AV amplifier (receiver). The following are examples of the main connection methods. For details on your Sound Bar/AV amplifier (receiver), refer to the instruction manual supplied with the Sound Bar/AV amplifier (receiver).

### A 4K Sound Bar/AV amplifier (receiver) with HDMI IN



- If selecting this connection method, set [HDMI Audio Output] in [System Settings] to [HDMI1] or [Auto] (page 25).
- To enjoy Bitstream (Dolby/DTS), set [BD Secondary Audio] in [Audio Settings] (page 22).
- To enjoy display of images in higher-definition HDMI formats (4K 60p/Ultra HD, 4K HDR, Dolby Vision, etc.), all connected devices need to support the video format.

### B Non-4K Sound Bar/AV amplifier (receiver) with HDMI IN

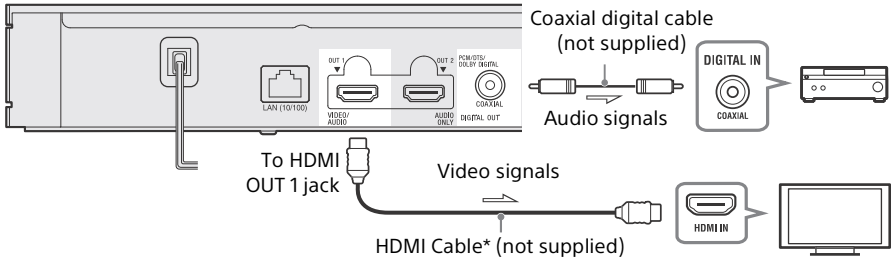


- If selecting this connection method, set [HDMI Audio Output] in [System Settings] to [HDMI2] or [Auto] (page 25).



When you connect your TV and a Sound Bar/AV amplifier (receiver) using an HDMI Cable (not supplied), no sound may be output, or you may be unable to switch the input to the player. Refer to "Troubleshooting" (page 27).

## ③ Non-4K Sound Bar/AV amplifier (receiver) without HDMI IN



→ If selecting this connection method, set [HDMI Audio Output] in [System Settings] to [HDMI1] or [Auto] (page 25).

\* Premium High Speed HDMI Cable or High Speed HDMI Cable that supports 18 Gbps bandwidth.



- To display images in higher-definition HDMI formats, you need to connect the player to your TV using a Premium High Speed HDMI Cable that supports 18 Gbps bandwidth (not supplied).
- To enjoy Dolby Vision, set [Dolby Vision Output] under [Screen Settings] on the player (page 20).
- If you encounter any problems or need more information, refer to "Troubleshooting" (page 27).

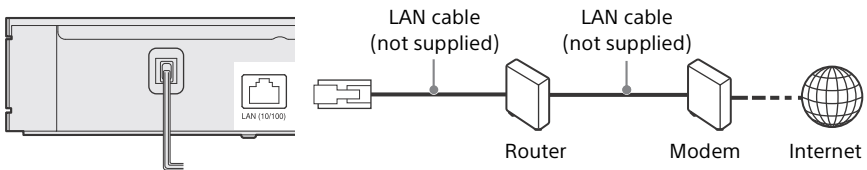
## 3: Network Connection

If you are not going to connect the player to a network, proceed to "4: Easy Setup" (page 13).



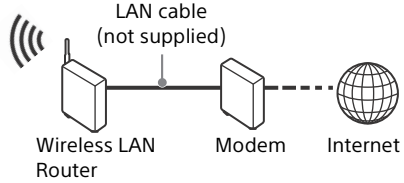
- For details on settings for network connection, see [Network Settings] (page 25).
- When the player is connected to the Internet and there is a software update, the update notification automatically appears on the screen.

### Wired Setup



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

## Wireless Setup



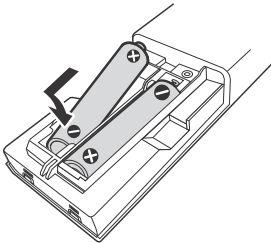
No cable assembly required between the player and the wireless LAN router.

## 4: Easy Setup

### When turned on for the first time


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

- 1 Insert two R03 (size AAA) batteries by matching the + and – ends on the batteries to the markings inside the battery compartments of the remote.








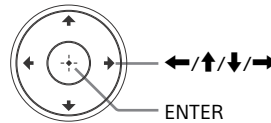
- 2 Plug the player into the mains.



- 3 Press  to turn on the player. Power indicator lights up.



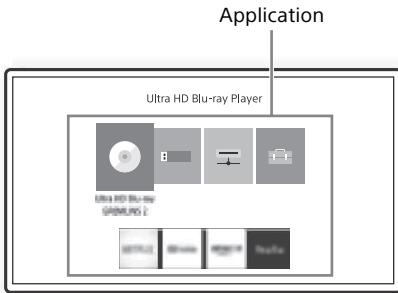
- 4 Turn on the TV and press TV  on the remote to set the input selector. This will show the signal from the player on your TV screen.
- 5 Perform [Easy Setup]. Follow the on-screen instructions to make the basic settings using , , ,  and press ENTER on the remote.



- When [Easy Setup] is complete, select [Easy Network Settings] to use the network functions of the player.
- To enable wireless connection, set [Internet Settings] in [Network Settings] to [Wireless Setup].
- To disable wireless connection, set [Internet Settings] in [Network Settings] to [Wired Setup].
- If there is no output or black screen appears, refer to "Troubleshooting" (page 27).


# Home screen display

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



The following applications are displayed on the home screen.

The network service application icons are displayed in the lower part of the screen after an internet connection is established.

 **[Disc]:**

Plays a disc.

 **[USB device]:**

Plays content from a USB device (page 15).

 **[Media Server]:**

Plays a file from a Home Network server via the player (page 16).

 **[Setup]:**

Adjusts the player's settings (page 20).



Disc/USB device/Media Server/Network Services can be registered to the ♥ (favourite) remote button as a favourite.

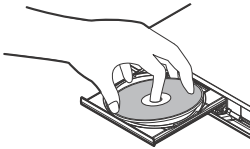
While selecting an application icon, you can select [Register as Favourite] from the option menu to register it.

If you register another item as a favourite, the previous favourite will be replaced with the new one.

## Playing a Disc

You can play Ultra HD Blu-ray discs, BDs, DVDs and CDs. For "Playable discs", see page 34.

- 1 Press ▲ (open/close), and place a disc on the disc tray.  
Place the disc's side with character or image facing up.  
For double-sided discs, place the side you want to play facing down.



- 2 Press ▲ (open/close) to close the disc tray.  
Playback starts.  
If playback does not start automatically, select the [Video], [Music], or [Photo] category in ● (Disc), and press ENTER or ► (play).



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

## Enjoying Blu-ray 3D

- 1 Prepare for Blu-ray 3D disc playback.
  - Connect the player to your 3D-compatible devices using a High Speed HDMI Cable.
  - Set [3D Output Setting] and [TV Screen Size Setting for 3D] in [Screen Settings] (page 21).
- 2 Insert a Blu-ray 3D disc.  
The operation method differs depending on the disc. Refer to the instruction manual supplied with the disc.



Also refer to the instruction manuals supplied with your TV and the connected device.



3D playback is not available when [Dolby Vision Output] in [Screen Settings] is set to [On].

## Enjoying 4K Ultra HD Blu-ray

- 1 Prepare for 4K Ultra HD Blu-ray playback.
  - Connect the player to a TV that supports 4K 60p using a Premium High Speed HDMI Cable that supports 18 Gbps bandwidth (not supplied).
  - If you are using BRAVIA TV, adjust the TV's "HDMI signal format" setting. For details, refer to the TV's instruction manual.
- 2 Insert a 4K Ultra HD Blu-ray disc.  
The operation method differs depending on the disc. Refer to the instruction manual supplied with the disc.

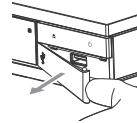


When playing a 4K Ultra HD Blu-ray disc with no disc key, it may require network connection depending on the network environment and official key server (Studio).

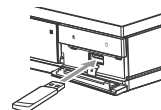
## Playing from a USB Device






For "Playable types of files", see page 35.

- 1 Open the USB jack cover.



- 2 Connect the USB device to the USB jack on the player.



- 3 On the home screen, select  [USB device] using /, and press ENTER.
- 4 Select the [Video], [Music], or [Photo] category using /, and press ENTER.



To avoid data corruption or damage to the USB device, turn off the player when connecting or removing the USB device.

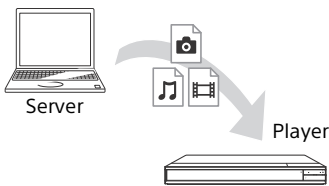
## Playing files on a Home Network


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

### Prepare to use Home Network.

- 1 Connect the player to a network (page 12).
- 2 Prepare the other necessary Home Network-compatible products. Refer to the instruction manual supplied with the product.

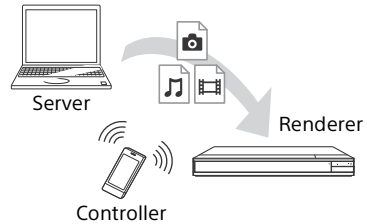
### To play a file from a Home Network server via the player (Home Network player)



Select the [Video], [Music], or [Photo] category from  [Media Server] on the home screen, then choose the file you want to play.

### To play a file from a Home Network server via another product (Renderer)

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



Control the player using a Home Network controller. Refer to the instruction manual supplied with the Home Network controller.

## Listening to Audio through a BLUETOOTH® Device

Through a Bluetooth connection, you can wirelessly transmit music from the player to a Bluetooth device and listen to the music on the device.

When connecting a device with the player for the first time via a Bluetooth connection, pairing\* (device registration) is required. Pair your Bluetooth device with the player beforehand. Once Bluetooth devices are paired, you do not need to pair them again. You can pair up to nine Bluetooth devices with the player. If a tenth device is paired, the oldest paired or connected device will be deleted.

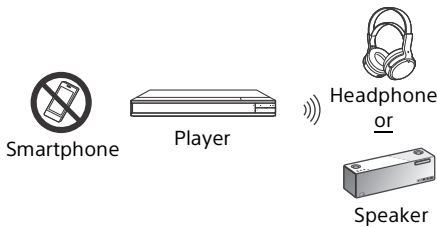
\* Pairing is the operation of registering Bluetooth devices to each other before connecting them.



This function is only supported with Bluetooth speakers or Bluetooth headphones. You cannot transmit music, etc. from a smartphone or computer and listen to it on the player.



Example:




## Listening to Audio through a Bluetooth device

After performing "Connecting to a Bluetooth device" (page 17),

- 1 Start playback content.
- 2 Adjust the volume of the Bluetooth device first. If the volume level is still low/high, press **OPTIONS** on the remote during playback screen and select [Bluetooth Volume], then press **↑/↓** to adjust the volume.

### Connecting to a Bluetooth device

Set [Bluetooth Mode] in [Bluetooth Settings] to [On] (page 23) before pairing a Bluetooth device with this player.

- 1 Place the Bluetooth device within 1 meter from the player.
- 2 Turn on your Bluetooth device and the Bluetooth function of the device.
  - If you are connecting the device with the player for the first time, set the device to the pairing mode.
  - Refer to the instruction manual of your Bluetooth device for details on the pairing mode settings. Once Bluetooth devices are paired, you do not need to pair them again.
- 3 On the home screen, select  [Setup] using **←/→**, and press **ENTER**.
- 4 Select [Bluetooth Settings] - [Device List] using **↑/↓** and **ENTER**.  
The devices available for a Bluetooth connection will be displayed.
- 5 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.



- While displaying the playback screen, you can also display the device list by pressing **OPTIONS** on the remote and selecting [Bluetooth Device] (page 18).
- You can quickly reestablish a connection with the last connected Bluetooth device using **Ⓡ** **BLUETOOTH** on the remote.



- The player cannot output sound to Bluetooth devices that do not support SCMS-T content protection.
- Certain content cannot be output to Bluetooth devices due to copyright protection.
- Some Bluetooth device does not support volume control.
- Do not use high volume from the start or for a long period. Your ears and the audio device may be damaged.
- Noise or sound skipping may occur depending on the connected Bluetooth device and the circumstances.

### Disconnecting the Bluetooth device

Perform any of the following steps:

- Press **Ⓡ** **BLUETOOTH** on the remote (page 8).
- 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.

## Listening to Audio through a Bluetooth device and HDMI output

You can enjoy audio playback from this player via a Bluetooth device and HDMI output simultaneously.

To set this function, perform any of the following steps:

- Set [Bluetooth Output] in [Bluetooth Settings] to [Bluetooth + HDMI].
- Press **OPTIONS** on the remote during any playback and select [Bluetooth Output], then select [Bluetooth + HDMI].



- Same audio content is output via Bluetooth device and HDMI output.
- This feature cannot establish Surround system.
- HDMI audio format may be changed.
- Audio output timing between HDMI and Bluetooth may not synchronize.
- If the Bluetooth speaker is far from the player, in a different room, or separated by a wall, Bluetooth connection will be unstable.

## Available Options

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

### Common options

- **[Repeat Setting]<sup>\*1</sup>**: Sets the repeat mode.
- **[Play]/[Stop]**: Starts or stops the playback.
- **[Play from start]**: Plays the item from the beginning.
- **[Bluetooth Output]<sup>\*2</sup>**: Switches between audio output from Bluetooth device only or from both Bluetooth device and HDMI output during Bluetooth connection.
- **[Bluetooth Device]<sup>\*2</sup>**: Displays Bluetooth device list.
- **[Bluetooth Volume]<sup>\*2</sup>**: Displays the Bluetooth volume control view. This option item is only available when the Bluetooth device is connected.

### Video only

- **[3D Output Setting]<sup>\*3</sup>**: 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).
- **[Display Info Position]**: Shifts the display position of playback information to the centre of the screen.
- **[Subtitle Shift]**: Shifts the display position of Ultra HD Blu-ray/BD/DVD subtitles upward or downward.
- **[HDR Conversion]<sup>\*4</sup>**: Converts High Dynamic Range (HDR) signal to Standard Dynamic Range (SDR) signal when the player is connected to a TV or a Projector that does not support HDR input. A picture is more similar to HDR when larger value is selected, but lowers overall brightness.
- **[Video Settings]<sup>\*3\*5</sup>**
  - [Picture Quality Mode]: Selects the picture settings for different lighting environments.
    - [Direct]
    - [Brighter Room]<sup>\*6</sup>
    - [Theatre Room]<sup>\*6</sup>
    - [Auto]: Noise reduction (NR) mode control depends on media and contents.

- [Custom1]/[Custom2]
  - [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]
  - [Colour]
  - [Hue]

- [Pause]: Pauses the playback.
- [Title Search]: Searches for a title on Ultra HD Blu-ray/BD/DVD VIDEO and starts playback from the beginning.
- [Chapter Search]: Searches for a chapter and starts playback from the beginning.

### Video and Music only

- [Top Menu]: Displays the Ultra HD Blu-ray/BD/DVD's Top Menu.
- [Menu]/[Popup Menu]: Displays the Ultra HD Blu-ray/BD's Pop-up Menu or DVD's menu.
- [Audio]: Switches the language track when multilingual tracks are recorded on Ultra HD Blu-ray/BD/DVD. Selects the sound track on CDs.
- [Subtitle]: Switches the subtitle language when multilingual subtitles are recorded on Ultra HD Blu-ray/BD/DVD.
- [Angle]: Switches to other viewing angles when multi-angles are recorded on Ultra HD Blu-ray/BD/DVD.
- [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 randomised order.
- [Group Search]: Searches for the group number during DVD AUDIO playback.


### Photo only

- [Slideshow Speed]: Changes the slideshow speed.
- [Slideshow Effect]: Sets the effect for slideshows.
- [Slideshow BGM]<sup>\*7</sup>:
  - [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.
- [2D Playback]<sup>\*8</sup>: Sets playback to 2D image.
- [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.








- <sup>\*1</sup> [Repeat Setting] is not available during BDJ titles playback or HDMV interactive title.
- <sup>\*2</sup> [Bluetooth Output], [Bluetooth Device] and [Bluetooth Volume] are not available during Home Network photo playback.
- <sup>\*3</sup> Not available when [Dolby Vision Output] in [Screen Settings] is set to [On].
- <sup>\*4</sup> [HDR Conversion] is only available during HDR video playback, when your display device is not compatible with HDR display, or when [HDR Output] in [Screen Settings] is set to [Off].
- <sup>\*5</sup> [Video Settings] output may not be significantly observed with normal eyes.
- <sup>\*6</sup> [Brighter Room] and [Theatre Room] are not available during HDR video playback.
- <sup>\*7</sup> [Slideshow BGM] is not available during Home Network photo playback.
- <sup>\*8</sup> [2D Playback] is only available during 3D photo playback.

### 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 On the home screen, select  [Setup] using /, and press ENTER.
- 2 Select the setup category icon using /, and press ENTER.



### [Software Update]

#### ■ [Update via Internet]

Updates the player's software using available network. Make sure that the network is connected to the Internet. See "3: Network Connection" (page 12).



- If an update notification screen appears when you turn the power on while this player is connected to the Internet, follow the on-screen instructions to update it.

#### ■ [Update via USB Memory]

Updates the player's software using USB memory. Create a folder named "UPDATE" and all the update files must be stored in this folder. The player can recognise 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 [www.sony.eu/support](http://www.sony.eu/support) 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 Settings]

#### ■ [BRAVIA Mode]

[On]: Sets [Dolby Vision Output], [4K Upscale Setting], and [Video Settings] to the mode optimized for BRAVIA.

[Off]: Turns off the function.

#### ■ [HDR Output]

[Auto]: Outputs HDR signal depending on contents and HDMI-SINK capability. Conversion function is applied when content is HDR and HDMI-SINK does not support HDR.

[Off]: Always output SDR.

#### ■ [Dolby Vision Output]

[On]: Output 4K/Dolby Vision signals via 4K/Dolby Vision-compatible devices.

[Off]: Automatically outputs HDR signals when you connect any 4K/HDR or 4K/Dolby Vision-compatible equipment.



When [On] is selected, 3D playback is not available.

#### ■ [Display Type]

[TV]: Select this when the player is connected to TV.

[Projector]: Select this when the player is connected to Projector.



[HDR Conversion] will be adjusted according to the display type you select. Even though same setting value of [HDR Conversion] is selected, dynamic range of picture is different.

#### ■ [Output Video Resolution]

Normally select [Auto].

#### ■ [24p Output]

Outputs 24p video signals only when you connect a 24p-compatible TV via an HDMI connection and the [Output Video Resolution] is set to [Auto], [1080p] or [4K].

#### ■ [Ultra HD Blu-ray/BD-ROM]

[Auto]: Outputs 24 Hz video signals only when you connect a 24p-compatible TV using the HDMI OUT jack.

[On]: Turns on the function.

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

**[DVD-ROM]**

[Auto]: Outputs 24 Hz video signals only when you connect a 24p-compatible TV using the HDMI OUT jack.

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

**[Data content]**

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

[Auto]: Outputs 24 Hz video signals only when you connect a 24p-compatible TV using the HDMI OUT jack.

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

**[Network content]**

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

[Auto]: Outputs 24 Hz video signals only when you connect a 24p-compatible TV using the HDMI OUT jack.

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

**■ [4K Upscale Setting]**

[Auto1]: When playing back video other than 4K, outputs 2K (1920 × 1080) video signals if connected to Sony 4K-compatible equipment, and outputs 4K video signals if connected to non-Sony 4K-compatible equipment.

The signals are upconverted to 4K video signals by the equipment.

[Auto2]: Automatically outputs 4K video signals when you connect 4K-compatible equipment.

[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.
- When playing back photos or playing back video through network services, the same effect as the [Auto2] setting is applied regardless of this setting.
- During 3D playback of 3D video, the same effect as the [Off] setting is applied regardless of this setting.
- Depending on the connected equipment and combination with other settings, the display may not match this setting.

**■ [YCbCr/RGB (HDMI)]**

[Auto]: Automatically detects the connected TV type, and switches to the matching colour setting.

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

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

[RGB]: Outputs RGB video signals.



Not available when [Dolby Vision Output] is set to [On].

**■ [HDMI Deep Colour Output]**

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

[Off]: Select this when the picture is unstable or colours appear unnatural.



Not available when [Dolby Vision Output] is set to [On].

**■ [IP Content NR]**

[Auto] / [Strong] / [Medium] / [Mild]: Adjust the picture quality for Internet content.

[Off]: Turns off the function.

**■ [3D Output Setting]**

[Auto]: Normally select this.

[Off]: Select this to display all content in 2D or to enjoy 4K output using 3D content.



Not available when [Dolby Vision Output] is set to [On].

**■ [TV Screen Size Setting for 3D]**

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



Not available when [Dolby Vision Output] is set to [On].

**■ [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.

### ■ [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. Select this if there is no output from the connected device.



This function is disabled during connection with a Bluetooth device. Audio format may be changed during Bluetooth connection.

### ■ [DSD Output Mode]

[Auto]: Outputs DSD signal from HDMI OUT jack when playing Super Audio CD & DSD format file (if the connected device also supports DSD).

Outputs LPCM signal from HDMI OUT jack when playing Super Audio CD & DSD format file (if the connected device does not support DSD).

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



This function is disabled during connection with a Bluetooth device. Audio format may be changed during Bluetooth connection.

### ■ [BD Secondary Audio]

[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 Bitstream (Dolby/DTS) signals to a Sound Bar/AV amplifier (receiver).



To enjoy Bitstream (Dolby/DTS) signals, set [BD Secondary Audio] to [Off] and [Digital Audio Output] to [Auto].

### ■ [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 [Cinema]/[Music] mode.

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



When [DTS Neo:6] is set to [Cinema] or [Music], [DSEE HX] cannot be set to [On].

### ■ [48kHz/96kHz/192kHz PCM]

[48kHz]/[96kHz]/[192kHz]: Sets the sampling frequency for the PCM signals output from the DIGITAL OUT (COAXIAL) jack.



Some device does not support [96kHz] and [192kHz] sampling frequency.

### ■ [DSEE HX]

[On]: Upscales the audio file to a High-Resolution Audio file and reproduces the clear high-range sound which is often lost.

[Off]: Turns off the function.



Source must be 2ch and 44.1/48 kHz.

### ■ [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

For “Listening to Audio through a BLUETOOTH® Device”, see page 16.

### ■ [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.



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 video streaming via Wi-Fi is unstable, please select [Connection] in below setting and Wi-Fi connection will be stable.

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

[Sound Quality]: The highest data rate is used. It is recommended for listening to music, 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.

### ■ [Bluetooth Output] (page 18)

[Bluetooth]: Outputs audio from Bluetooth device.

[Bluetooth + HDMI]: Outputs audio from both Bluetooth device and HDMI output.



## BD/DVD Viewing Settings

### ■ [BD/DVD Menu Language]

Selects the default menu language for Ultra HD Blu-ray/BD/DVD VIDEO. Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 39).

### ■ [Audio Language]

Selects the default audio language for Ultra HD Blu-ray/BD/DVD VIDEO.

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 39).

### ■ [Subtitle Language]

Selects the default subtitle language for Ultra HD Blu-ray/BD/DVD VIDEO.

Select [Select Language Code], and enter the code for your language, referring to "Language code list" (page 39).

### ■ [BD Hybrid Disc Playback Layer]

[BD]: Plays BD layer.

[DVD/CD]: Plays DVD or CD layer.

### ■ [BD Internet Connection]

[Allow]: Allows Internet connection from BD contents.

[Do not allow]: Prohibits Internet connection from BD contents.

### ■ [Delete BD Data]

Deletes data in the USB memory.

All data stored in the buda folder will be erased.

### ■ [DVD-Audio Playback]

[DVD-Audio]: Plays DVD AUDIO content.

[DVD-Video]: Plays DVD VIDEO content only.



## [Parental Control Settings]

### ■ [Password]

Sets or changes the password for the Parental Control function. A password allows you to set a restriction on Ultra HD Blu-ray/BD/DVD VIDEO and Internet video playback. If necessary, you can differentiate the restriction levels for Ultra HD Blu-ray/BD/DVD VIDEO and Internet video.

### ■ [Parental Control Area Code]

Playback of some Ultra HD Blu-ray/BD/DVD VIDEO or Internet video can be limited according to the geographic area. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

### ■ [BD Parental Control] / [DVD Parental Control]/ [Internet Video Parental Control]

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

### ■ [Internet Video Unrated]

[Allow]: Allows the playback of unrated Internet videos.

[Block]: Blocks the playback of unrated Internet videos.



## [Music Settings]

### ■ [Super Audio CD Playback Layer]

[Super Audio CD]: Plays the Super Audio CD layer.

[CD]: Plays the CD layer.

### ■ [Super Audio CD Playback Channels]

[DSD 2ch]: Plays the 2ch area.

[DSD Multi]: Plays the multi-channel area.



## [System Settings]

### ■ [OSD Language]

Selects on-screen display language for your player.

### ■ [System Sound]

[On]: Activates the beep sound for operation on the home screen.

[Off]: Turns off the function.

### ■ [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. To enable the BRAVIA Sync features, connect your TV via the HDMI OUT 1 jack.

#### **[Linked to TV-off]**

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

[Invalid]: Turns off the function.

#### **■ [HDMI Audio Output]**

[Auto]: Outputs audio signal via HDMI OUT 2 jack if it is connected to a device and the device is turned on. Otherwise, outputs audio signal via HDMI OUT 1 jack.

[HDMI1]: Outputs audio signal via HDMI OUT 1 jack.

[HDMI2]: Outputs audio signal via HDMI OUT 2 jack.

#### **■ [Auto Standby]**

[On]: Automatically returns to standby mode if no button is pressed for more than 20 minutes.

[Off]: Turns off the function.

#### **■ [Auto Display]**

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

[Off]: Displays information only when you press DISPLAY.

#### **■ [Software Update Notification]**

[On]: Sets the player to inform you of newer software version information (page 20).

[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 "3: Network Connection" (page 12).

[Wired Setup]: Select this when you connect to a 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 FAQ contents:

[www.sony.eu/support](http://www.sony.eu/support)

### **■ [Network Connection Status]**

Displays the current network status.

### **■ [Network Connection Diagnostics]**

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

### **■ [Connection Server Settings]**

Sets whether or not to display the connected server.

### **■ [Auto Home Network Access Permission]**

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

[Off]: Turns off the function.

### **■ [Home Network Access Control]**

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

### **■ [Remote Start]**

[On]: Allows you to turn on the player by a device linked via a network.

[Off]: Turns off the function.



Set [Remote Start] to [On] and turn off the player to activate Network standby (page 33).



## **[Easy Setup]**

See "4: Easy Setup" (page 13).

## [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.

### ■ [Initialise Personal Information]

Erases your personal information stored in the player.




If you dispose, transfer or resell the player, 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 a problem occurs while operating the player, use this troubleshooting guide to help remedy the problem before requesting repairs. If the problem persists, consult your nearest Sony dealer.


## Power

**The player does not turn on even when you press  on the remote or the player.**

- Turn off the player and disconnect the AC power cord (mains lead). Wait for more than 2 minutes, and then reconnect the AC power cord (mains lead) and turn on the player.

## Picture

**No picture or the picture is not output correctly.**

- Check that all the cables are securely connected (page 10).
- 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 on the remote.
- 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 [Screen Settings] (page 20).
- For Ultra HD Blu-ray/BD-ROM/DVD-ROM/Data content/Network content, check the [24p Output] settings in [Screen Settings] (page 20).
- For 4K output, please make sure that the player is connected to 4K display that supports HDCP2.2 capable HDMI input using Premium High Speed HDMI Cable or High Speed HDMI Cable that supports 18 Gbps bandwidth (page 10).

**4K Ultra HD video is not output.**

- Check the following.
  - Connect the player to a TV that supports 4K 60p using a Premium High Speed HDMI Cable that supports 18 Gbps bandwidth (not supplied).
  - If you are using BRAVIA TV, adjust the TV's "HDMI signal format" setting. For details, refer to the TV's instruction manual.
  - Make sure that the playback content is 4K Ultra HD video.

**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 24), 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

**No sound or the sound is not output correctly.**

- Check that all the cables are securely connected (page 10).
- Switch the input selector on your Sound Bar/AV amplifier (receiver) so that the audio signals of the player are output from your Sound Bar/AV amplifier (receiver).
- If the audio signal does not come through the DIGITAL OUT (COAXIAL)/HDMI OUT jack, check the [Digital Audio Output] settings in [Audio Settings] (page 22).
- 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 a Sound Bar/AV amplifier (receiver), try connecting the HDMI cable directly to the TV. Also refer to the instruction manual supplied with the Sound Bar/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 [Audio Settings] (page 22).
- Check the [HDMI Audio Output] settings in [System Settings] (page 25).

### **No sound is output from a Sound Bar/AV amplifier connected to the HDMI OUT 2 jack.**

- Even when you connect the player to a TV through a Sound Bar/AV amplifier (receiver), the input source may not switch to the player depending on the settings. Check the following.
  - The HDMI cable is connected to the HDMI OUT 2 jack on the player and the HDMI input jack on the Sound Bar/AV amplifier. Do not connect the cable to the HDMI output jack on the Sound bar/AV amplifier.
  - The player is selected as the input source on the Sound Bar/AV amplifier.
- If the problem persists after checking the above, try the following.
  - Set [Control for HDMI] in [System Settings] to [Off]. When you set it to [Off], the BRAVIA Sync features are disabled<sup>\*1</sup>.
  - If the Sound Bar/AV amplifier is connected to an ARC-compatible HDMI input jack on your TV, remove the HDMI cable from the jack. After you disconnect the cable, the Sound Bar/AV amplifier will no longer output sound from the TV<sup>\*1</sup>.
- When you connect the player to a Sound Bar/AV amplifier via the HDMI OUT 2 jack, make sure that [HDMI Audio Output] in [System Settings] is set to [HDMI2] or [Auto] (page 25).

### **The HD Audio (Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio, DTS-HD Master Audio, Dolby Atmos<sup>\*2</sup> and DTS:X<sup>\*3</sup>) is not output by bitstream.**

- Set [BD Secondary Audio] in [Audio Settings] to [Off] (page 22).
- Check that the Sound Bar/AV amplifier (receiver) is compatible with each HD Audio format.

### **The interactive audio is not output.**

- Set [BD Secondary Audio] in [Audio Settings] to [On] (page 22).

### **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 unauthorised copy of professionally-produced content (page 38).

<sup>\*1</sup> To output the sound, connect your TV and the Sound Bar/AV amplifier using an optical digital cable.

<sup>\*2</sup> Dolby Atmos is a trademark of Dolby Laboratories.

<sup>\*3</sup> DTS:X is a registered trademark and/or trademark of DTS, Inc. in the United States and/or other countries.

## **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 34).
- The player cannot play a recorded disc that is not correctly finalised or the disc is not in Mastered disc format.
- The region code on the BD/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 the USB cable is damaged.
- Check if the USB device is turned 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 and at least 25 Mbps for Ultra HD video (depending on the service provider).

**Internet streaming via Wi-Fi is unstable when connected with Bluetooth device using LDAC.**

- Set [Wireless Playback Quality] in [Bluetooth Settings] to [Connection] (page 23).

**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 12) and the network settings (page 23).

**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.
- Move the player and the wireless LAN router closer to each other.
- Move the player away from devices that use a 2.4 GHz frequency band such as a microwave, Bluetooth or digital cordless device, 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 20) to update the player to a newer software version.

## Bluetooth connection

**Bluetooth connection cannot be done/completed.**

- Set [Bluetooth Mode] to [On] (page 23).
- Make sure the Bluetooth device is turned on and the Bluetooth function is enabled.
- Move the Bluetooth device closer to the player.
- Connect the player and the Bluetooth device again. You may need to cancel the connection with the 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.**

- DVD AUDIO cannot be played via Bluetooth device due to DRM.
- 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 the player and the Bluetooth device.

- Connect the 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 your TV is connected via the HDMI OUT 1 jack.
- Check that [Control for HDMI] in [HDMI Settings] is set to [On] (page 24).
- 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 24).
- 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 a Sound Bar/AV amplifier (receiver),
  - if the Sound Bar/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 (mains lead), or a power failure occurs, try the following:
    - ① Switch the input selector of the Sound Bar/AV amplifier (receiver) so that the picture from the player appears on the TV screen.
    - ② Set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 24). Refer to the instruction manual supplied with the Sound Bar/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 24).

### Others

#### Playback does not start from the beginning of content.

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

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

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

#### 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 authorised for playback by consumers (page 38).

#### The disc tray does not open and you cannot remove the disc even after you press **▲ (open/close)**.

- While the player is turned on, press **■ (stop)**, **HOME**, and then **TOP MENU** on the remote to unlock the tray and disable the Child Lock (page 9).
- Try the following:
  - ① Turn the player off, and disconnect the AC power cord (mains lead).
  - ② Reconnect the AC power cord (mains lead) while pressing down **▲ (open/close)** on the player.
  - ③ Keep pressing down **▲ (open/close)** on the player until the tray opens.
  - ④ Remove the disc.
- The disc tray will not respond during Internet streaming (e.g. Netflix) even after you press **▲ (open/close)**.

#### The message **[[EJECT] Key is currently unavailable.]** appears on the screen after **▲ (open/close)** is pressed.

- Contact your nearest Sony dealer or local authorised Sony service facility.

**The player does not respond to any button.**

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

**About software update**

- If your network condition is poor, visit [www.sony.eu/support](http://www.sony.eu/support) to download the latest software version and update via USB memory. You can also get information about update functions from the website.

# Specifications

Specifications and design are subject to change without notice.

## System

<b>Laser</b>	Semiconductor laser
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## Inputs and outputs

<b>Jack name</b>	<b>Jack type/Output level/Load impedance</b>
<b>DIGITAL OUT (COAXIAL)</b>	Phono jack /0.5 Vp-p/75 ohms
<b>HDMI OUT 1*/2</b>	HDMI 19-pin standard connector * Only HDMI OUT 1 supports video output.
<b>LAN (10/100)</b>	10BASE-T/100BASE-TX Terminal
<b>USB</b>	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.

## Wireless

<b>Wireless LAN standard</b>	Protocol IEEE802.11a/b/g/n
<b>Frequency band</b>	2.4 GHz, 5 GHz band
<b>Frequency range / Output Power</b>	<ul style="list-style-type: none"><li>• 2,400 - 2,483.5 MHz / 19.9 dBm</li><li>• 5,150 - 5,250 MHz / 22.9 dBm</li><li>• 5,250 - 5,350 MHz / 22.9 dBm</li><li>• 5,470 - 5,725 MHz / 22.9 dBm</li></ul>
<b>Modulation</b>	DSSS and OFDM
<b>Bluetooth Version</b>	Bluetooth Specification v4.1

## Bluetooth

<b>Communication system</b>	Bluetooth Specification v4.1
<b>Output</b>	Bluetooth Specification Power Class 1
<b>Maximum communication range</b>	Line of sight approx. 30 m
<b>Frequency band</b>	2.4 GHz
<b>Frequency range / Output Power</b>	2,400 - 2,483.5 MHz / 9.0 dBm
<b>Modulation method</b>	FHSS
<b>Compatible Bluetooth Profiles</b>	A2DP v1.2, AVRCP v1.3
<b>Supported Codecs</b>	SBC, AAC, LDAC
<b>Transmission range (A2DP)</b>	<ul style="list-style-type: none"><li>• 20 Hz - 40,000 Hz (LDAC in sampling 96 kHz and transmit by 990 kbps)</li><li>• 20 Hz - 20,000 Hz (in sampling 44.1 kHz)</li></ul>



## General

<b>Power requirements</b>	Rating: Input 220 V - 240 V AC, 50/60 Hz
<b>Power consumption</b>	15 W
<b>Network standby</b>	Less than 2 W (all wired/wireless network ports ON)
<b>Dimensions (approx.)</b>	430 mm × 265 mm × 50 mm (width × depth × height) incl. projecting parts
<b>Mass (approx.)</b>	3.8 kg
<b>Operating temperature</b>	5 °C to 35 °C
<b>Operating humidity</b>	25 % to 80 %
<b>Software version</b>	This radio equipment is intended to be used with the approved version(s) of software that are indicated in the EU Declaration of Conformity. The software loaded on this radio equipment is verified to comply with the essential requirements of the Directive 2014/53/EU. To know the software version, select [Setup] on the home screen and refer to [System Information] in [System Settings].

## Playable discs

<b>Blu-ray Disc</b> <sup>*1</sup>	Ultra HD Blu-ray, BD-ROM, BD-R <sup>*2</sup> /BD-RE <sup>*2</sup>
<b>DVD</b> <sup>*3</sup>	DVD-ROM, DVD-R/ DVD-RW, DVD+R/DVD+RW DVD AUDIO <sup>*4</sup>
<b>CD</b> <sup>*3</sup>	CD-DA (Music CD), CD-ROM, CD-R/CD-RW, Super Audio CD

<sup>\*1</sup> 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.

<sup>\*2</sup> 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.

<sup>\*3</sup> A CD or DVD disc will not play if it has not been correctly finalised or the disc is not in Mastered disc format. For more information, refer to the instruction manual supplied with the recording device.

<sup>\*4</sup> Some DVD AUDIO discs have hidden group and need password entry. Refer to the disc for the password.

### Discs that cannot be played

- BDs with cartridge
- BDXLs
- DVD-RAMs
- HD DVDs
- PHOTO CDs
- Data part of CD-Extras
- Super VCDs
- Audio material side on DualDiscs

### Note on Discs

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

### Note on playback operations of Ultra HD Blu-ray/BD/DVD

Some playback operations of Ultra HD Blu-ray/BD/DVD may be intentionally set by software producers. Since this player plays Ultra HD Blu-ray/BD/DVD according to the disc contents the software producers designed, some playback features may not be available.

### Note about double-layer Ultra HD Blu-ray/BD/DVD and triple-layer Ultra HD Blu-ray

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

### Region code (BD/DVD VIDEO only)

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



# Playable types of files

## Video

Codec	Container	Extension	With Audio
MPEG-1 Video* <sup>1</sup>	PS	.mpg, .mpeg	Dolby Digital, DTS, LPCM, MPEG
	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
MPEG-2 Video* <sup>2</sup>	PS* <sup>3</sup>	.mpg, .mpeg	Dolby Digital, DTS, LPCM, MPEG
	TS* <sup>4</sup>	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
Xvid	AVI	.avi	Dolby Digital, LPCM, WMA9, MP3
	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
MPEG4/AVC/ H.264* <sup>5</sup>	MKV* <sup>1</sup>	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	MP4* <sup>1</sup>	.mp4, .m4v	AAC
	TS* <sup>1</sup>	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
	Quick Time* <sup>6</sup>	.mov	Dolby Digital, LPCM, AAC, MP3
	FLV* <sup>6</sup>	.flv, .f4v	LPCM, AAC, MP3
VC1* <sup>1</sup>	3gpp/ 3gpp2* <sup>6</sup>	.3gp, .3g2, .3gpp, .3gp2	AAC
	TS	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
WMV9* <sup>1,7</sup>	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	ASF	.wmv, .asf	WMA9, WMA 10 Pro
Motion JPEG* <sup>6</sup>	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	Quick Time	.mov	Dolby Digital, LPCM, AAC, MP3
HEVC/H.265	AVI	.avi	Dolby Digital, LPCM, AAC, MP3
	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis
	MP4	.mp4, .m4v	AAC
VP6	TS	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
	FLV	.flv	MP3
VP8/VP9	Webm	.webm	Vorbis
	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3, Vorbis

### Format

AVCHD (Ver.2.0)\*<sup>1,8,9,10</sup>

## Music

Codec	Extension
MP3 (MPEG-1 Audio Layer III) <sup>*11</sup>	.mp3
AAC/HE-AAC <sup>*11</sup>	.m4a, .aac <sup>*6</sup>
WMA9 Standard	.wma
WMA 10 Pro <sup>*12</sup>	.wma
LPCM <sup>*11</sup>	.wav
FLAC <sup>*1</sup>	.flac, .fla
Dolby Digital <sup>*6*11</sup>	.ac3
DSF <sup>*1</sup>	.dsf
DSDIFF <sup>*1*13</sup>	.dff
AIFF <sup>*1</sup>	.aiff, .aif
ALAC <sup>*1</sup>	.m4a
Vorbis	.ogg
Monkey's Audio	.ape

## Photo

Format	Extension
JPEG	.jpeg, .jpg, .jpe
PNG	.png <sup>*14</sup>
GIF	.gif <sup>*14</sup>
MPO	.mpo <sup>*6*15</sup>
BMP	.bmp <sup>*6*15</sup>
WEBP	.webp <sup>*6</sup>

<sup>\*1</sup> The player may not play this file format on a Home Network server.

<sup>\*2</sup> The player can only play standard definition video on a Home Network server.

<sup>\*3</sup> The player does not play DTS format files on a Home Network server.

<sup>\*4</sup> The player can only play Dolby Digital format files on a Home Network server.

<sup>\*5</sup> The player can support AVC up to Level 5.2.

<sup>\*6</sup> The player does not play this file format on a Home Network server.

<sup>\*7</sup> The player can support WMV9 up to Advanced Profile.

<sup>\*8</sup> The player can support frame rate up to 60 fps.

<sup>\*9</sup> The player plays AVCHD format files that are recorded on a digital video camera, etc. The AVCHD format disc will not play if it has not been correctly finalised.

<sup>\*10</sup> The player can play AVCHD 3D format.

<sup>\*11</sup> The player can play ".mka" files.

This file cannot be played on a Home Network server.

<sup>\*12</sup> The player does not play coded file such as Lossless.

<sup>\*13</sup> The player does not play DST encoded files.

<sup>\*14</sup> The player does not play animated PNG or animated GIF files.

<sup>\*15</sup> For MPO files other than 3D, the key image or the first image is displayed.

<sup>\*16</sup> The player does not support 16bit BMP files.



The player supports HDR video formats such as HDR10, HLG (Hybrid Log Gamma), and Dolby Vision.



- Some files may not play depending on the file format, file encoding, recording condition, or Home Network server condition.
- Playable formats differ depending on the connected device or network service. For details, refer to the format information for the connected device or content.
- 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 recognise the following files or folders in BDs, DVDs, CDs and USB devices:
  - up to folders in the 9th layer, including the root folder.
  - up to 500 files/folders in a single layer.
- The player can recognise the following files or folders stored in the Home Network 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 recognise Mass Storage Class (MSC) devices (such as flash memory or an HDD), Still Image Capture Device (SICD) class devices and 101 keyboard.
- The player may not play high bit rate video and audio files on DATA CDs smoothly. It is recommended to play such files using DATA DVDs or DATA BDs.

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## Language code list

For details, see [BD/DVD Viewing Settings] (page 23).

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

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

Code	Language	Code	Language
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	Twí
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 24).

<b>Code</b>	<b>Area</b>		
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		









## For Your Convenience

### Before Inquiries

Please confirm the following details:

- Investigate with "Troubleshooting" (page 27) to help remedy the problem.
- Turn off the player and disconnect the AC power cord (mains lead). Wait for more than 2 minutes and then reconnect the AC power cord (mains lead).

Record the serial number (S/N) in the space provided below. Provide this number to your Sony dealer to get quicker action whenever you call them regarding this product.

S/N \_\_\_\_\_



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