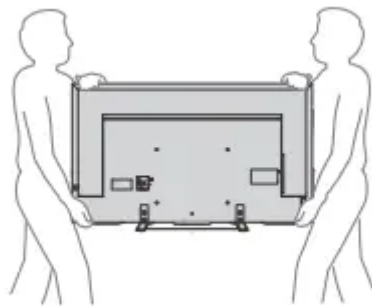


Getting Started

Setting Up Your TV

Some TV models are packaged with a detached Table-Top Stand so you can mount your TV to a wall right away. See page 41 (Installing the TV to the Wall) if you want to mount the TV to a wall. If you are not mounting the TV to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver (not supplied) and the supplied screws to complete the task. Look for the supplied Setup Guide. Be sure to consider the following while setting up your TV:

- Disconnect all cables when carrying the TV.
- Carry the TV with the adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damage.
- Do not put stress on the LCD panel or the frame around the screen.



- Ensure your TV has adequate ventilation, see page 42.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid installing the TV in a room with reflective wall and floor materials.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the TV to show poor picture and/or poor color. Should this occur, allow moisture to evaporate completely before powering the TV on.

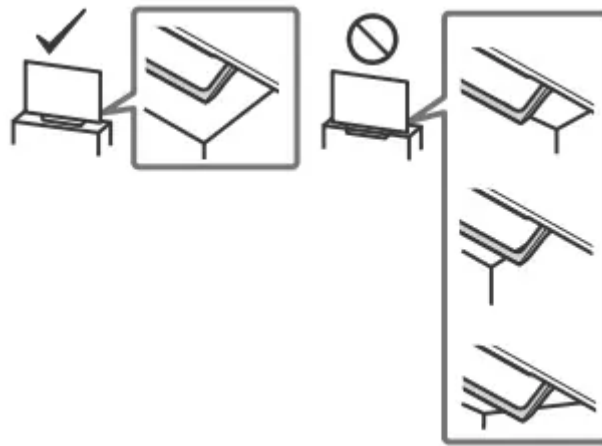
Securing the TV



Sony strongly recommends taking measures to prevent the TV from toppling over. Unsecured TVs may topple and result in property damage, serious bodily injury or even death.

Preventing the TV from Toppling

- Secure the TV to a wall and/or stand.
- Do not allow children to play or climb on furniture and TV sets.
- Avoid placing or hanging items on the TV.
- Never install the TV on:
 - slippery, unstable and/or uneven surfaces.
 - furniture that can easily be used as steps, such as a chest of drawers
- Install the TV where it cannot be pulled, pushed, or knocked over.
- Install the TV so that the TV's Table-Top Stand does not protrudes out from the Stand (not supplied). If the Table-Top Stand protrudes out from the Stand, it may cause TV set to topple over, fall down, and cause personal injury or damage to the TV.

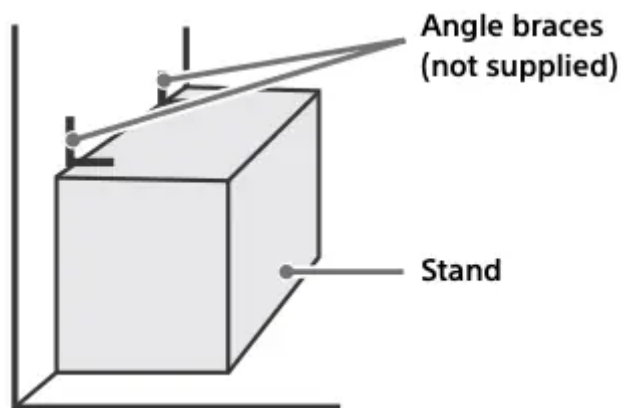


- Route all AC power cords and connecting cables so that they are not accessible to curious children.

Recommended Measures to Secure the TV

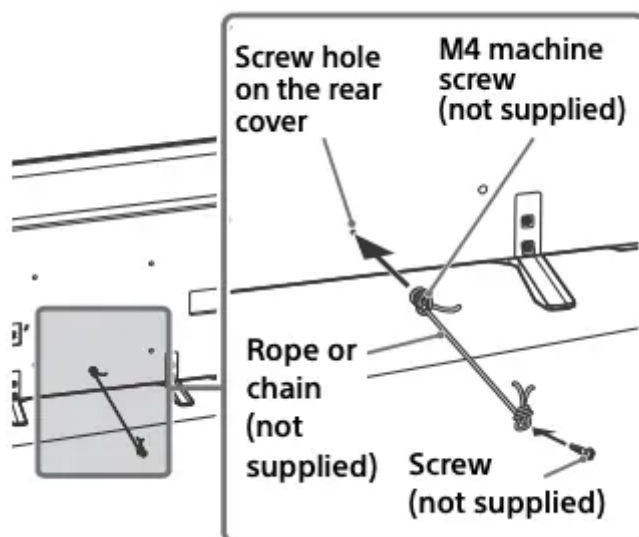
Consider the following measures when securing your TV to a Stand (not supplied).

1. Secure the Stand for the TV. Make sure the Stand can adequately support the weight of the TV. Use two angle braces (not supplied) to secure the Stand. For each angle brace use the appropriate hardware to:
 - Attach one side of the angle brace to the wall stud.
 - Attach the other side to the Stand.

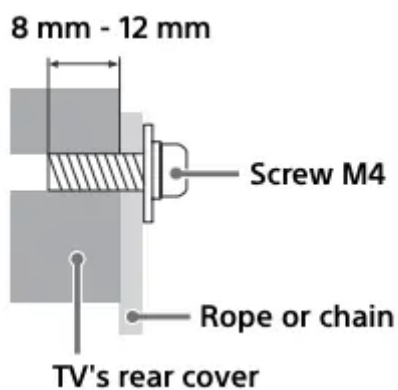


2. Secure the TV to the Stand. Use the optional hardware listed as follows (not supplied):

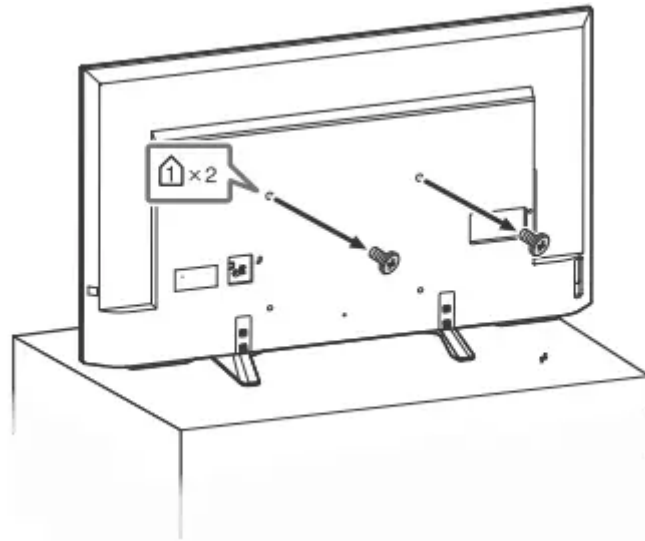
- M4 machine screws (screwed into the TV's rear cover).
- A screw or similar (attach it to the Stand).
- Rope or chain (strong enough to support the weight of the TV). Make sure that there is no excess slack in the rope or chain.



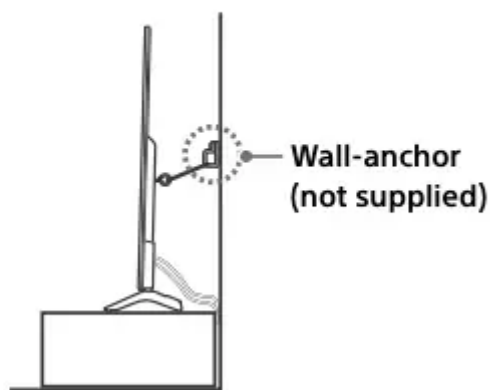
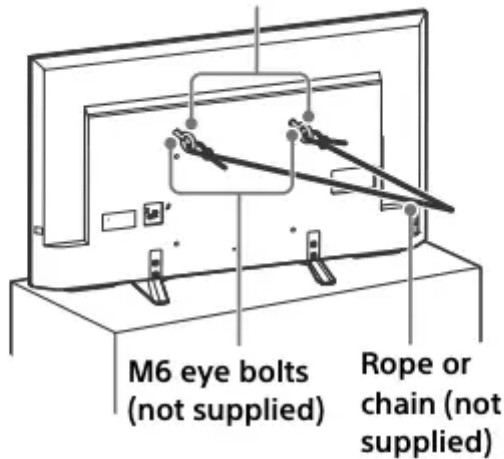
The length of the M4 machine screw differs depending on the rope or chain diameter. Please refer to below illustration.



3. Anchor the TV to the wall by using bolts, wall anchor and chain (or rope).

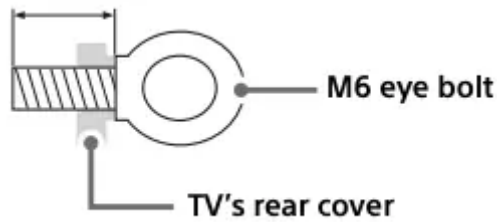


Wall-mount holes



Please see below illustration for M6 eye bolt length.





Note

- Your TV is shipped with screws attached to the rear of the TV depending on the TV model. (They are fastened in the screw holes for wall mounting.) Be sure to remove the upper two screws prior to anchoring the TV to a wall.
- Securing the TV to the Stand without securing the TV and the Stand to the wall provides minimum protection against the TV toppling over. For further protection, be sure to follow the three measures recommended.

Precautions

How to care for your BRAVIA TV

- Safety is very important. Please read and follow the safety documentation (Safety Booklet) separately provided.
- Unplug the TV and other connected equipment from the wall outlet before you begin cleaning your TV.



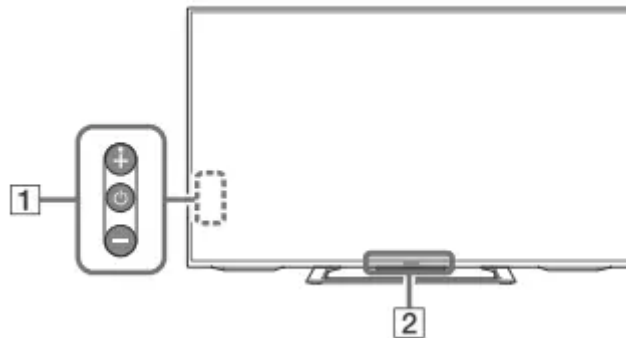
- Wipe the LCD screen gently with a soft cloth.
- Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.
- Never spray water or detergent directly on the TV set. It may drip to the bottom of the screen or exterior parts and enter the TV set, and may cause damage to the TV set.
- Never use strong solvents such as a thinner, alcohol or benzene for cleaning.
- Do not plug in the TV into the wall outlet until the moisture from cleaning has evaporated.

- Do not touch the TV if your hand is covered in any chemical substance such as hand cream or sunblock.

The TV should also be placed on a stable surface to prevent it from toppling over (see page 7). If you have young children or pets at home, check regularly to ensure the TV is securely fastened.

Parts and Controls

TV





1. (Power) / + / -

Short press  to turn the TV on.



Long press  until the TV turns off.

When the TV is on, Volume

Press + or - button to increase/decrease the volume.


You can also press  until  notification is displayed. Increases/ decreases the volume by pressing the + or - button.

Input

Press  until  notification is displayed.

Moves the selected input source by pressing + (up) or - (down) button.

Channel

Press  until CH notification is displayed.

Select the channel by pressing + (up) or - (down) button.

2. (Sensors/LED indicator)

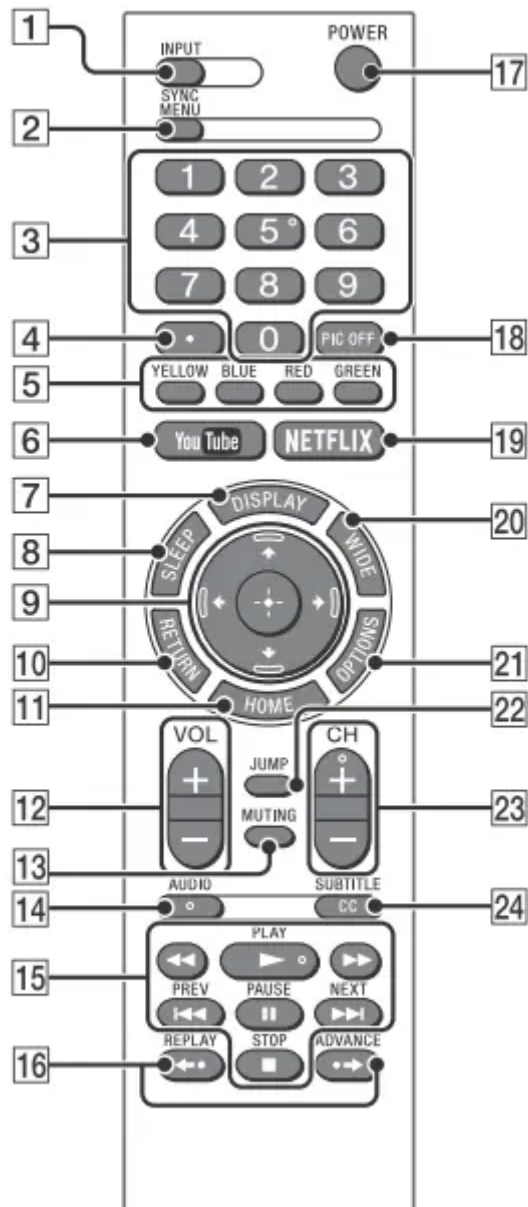
- Receives signals from the remote control. Do not put anything over the sensor. Doing so may affect its function.
- Lights up in amber when the [Sleep Timer] or [On Timer] is set (page 30), or the TV is in Photo Frame Mode (page 20).
- Lights up in green when [Power Saving] is set to [Picture Off] (page 32).
- Lights up in green when the TV is turned on.
- Does not light up when the TV is in standby mode.
- Flashes while the remote control is being operated.

Note

- Make sure that the TV is completely turned off before unplugging the AC power cord.
- To disconnect the TV from the AC power completely, pull the plug from the mains socket.
- Please wait for a while when perform input selection to change to other input.

Remote Control

The remote control shape, location, availability and function of remote control button may vary depending on your region/country/TV model.



1. INPUT

Displays and selects the input source.

2. SYNC MENU

Press to display the BRAVIA Sync Menu and then select connected HDMI equipment from [Device Selection]. The following options can be selected from BRAVIA Sync Menu.

Device Control:

Use the [Device Control] to operate equipment that is compatible with BRAVIA Sync Control. Select options from [Home (Menu)], [Options], [Content List] and [Power Off] to operate the equipment.

Speakers:



Select [TV Speakers] or [Audio System] to output the TV's sound from the TV speakers or connected audio equipment.

TV Control:

Use the [TV Control] menu to operate the TV from the [Home (Menu)] or [Options] menu.





Return to TV:

Select this option to return to TV program.

3. 0-9

Select channels. For channel numbers 10 and above, enter the next digit quickly.

4. 

Use with 0-9 to select digital channels. For example, to enter 2.1, press , ,  and .

5. Color buttons

Displays operation guide (when colored buttons are available).

6. YouTube (Only on limited region/ country/TV model)


Accesses the "YouTube" online service.

7. DISPLAY

Displays information. Press once to display information about the program/ input you are viewing. Press again to remove the display from the screen.

8. SLEEP

Press repeatedly until the TV displays the time in minutes [Off]/[15 min]/ min]/[45 min]/[60 min]/[90 min]/ min] that you want the TV to remain on before shutting off. To cancel the sleep timer, press SLEEP repeatedly until [Off] appears.

9. 

- Select or adjust items.
- Confirm selected items.

10. RETURN

- Returns to the previous screen of any displayed menu.
- Stops playback when playing photo/ music/video file.

11. HOME

Displays or cancels the menu.

12. VOL +/-

Adjust the volume.

13. MUTING

Mutes the sound. Press again to restore the sound.

14. AUDIO

Selects the sound of multilingual source or dual sound for the program currently being viewed (depending on program source).

**◀◀ (fast rewind)/▶▶ (PLAY)/
▶▶ (fast forward)/◀◀ (PREV)/
15. ■ (PAUSE)/■ (STOP)/▶▶▶ (NEXT)**

- Operate media contents on TV and connected BRAVIA Sync-compatible device.
- This key also can be used to operate VOD (Video on Demand) service playback. Availability is depend on VOD service.

16. ◀● (REPLAY)/●▶ (ADVANCE)

Replays the scene/briefly fast forwards the scene (USB and IPTV Video playback only).

17. POWER

Turns the TV on or switches to standby mode.

18. PIC OFF

Press to turn picture off, and sound remains on.

19. NETFLIX (Only on limited region/ country/TV model)

Accesses the "NETFLIX" online service.

20. WIDE

Adjusts the screen display. Press repeatedly to select the desired wide mode (page 18).

21. OPTIONS

Displays a list that contains shortcuts to some setting menus. The listed options vary depending on the current input and content.

22. JUMP

Returns to the previous channel or input viewed more than 15 seconds.


23. CH +/-

Select the next (+) or previous (-) channel.

24. CC/SUBTITLE

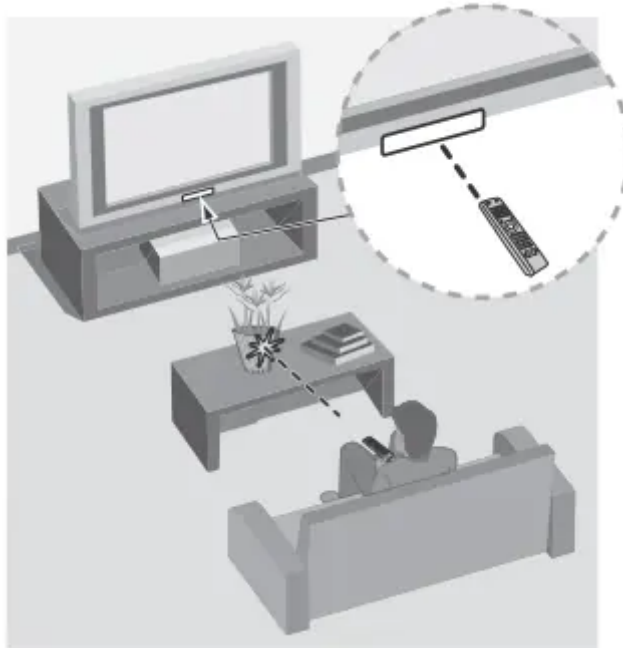
Changes the subtitle setting (page 29).

Hint

- The number 5, , CH + and AUDIO buttons have a tactile dots. Use the tactile dots as references when operating the TV.

Guidelines for Remote Control

- Point your remote control directly at the IR sensor located on your TV.
- Make sure that no objects are blocking the path between the remote control and the IR sensor on your TV.

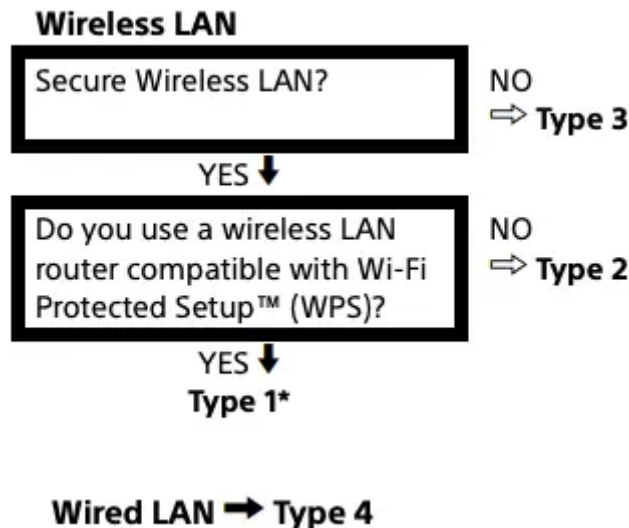


- Fluorescent lamps can interfere with your remote control; try turning off the fluorescent lamps.
- If you are having problems with the remote control, reinsert or replace your batteries and make sure that they are correctly inserted.

Connecting TV to the Internet

Setting up the Internet Connection

To use the network features of your TV it needs to be connected to the Internet. The set-up procedure differs depending on the type of network and LAN router. Before setting up the Internet connection, be sure to set up a LAN router. Check your wireless LAN environment using the following chart.



Type 1 is easier to set up if your router has an automatic setting button, e.g. Air Station OneTouch Secure System (AOSS). Most of the latest routers have this function. Check your router.

Type 1: Follow the configuration for Secured network with Wi-Fi Protected Setup™ (WPS).

Type 2: Follow the configuration for Secured network without Wi-Fi Protected Setup™ (WPS).

Type 3: Follow the configuration for Unsecured network with any type of wireless LAN router.

Type 4: Follow the configuration for Wired network set-up.

Type 1: Secured network with Wi-Fi Protected Setup™ (WPS)

The WPS standard makes security of a wireless home network as straightforward as pressing the WPS button on the wireless LAN router. Before setting up a wireless LAN, check the location of the WPS button on the router and verify how to use it. For security purpose, [WPS (PIN)] provides a PIN code for your router. PIN code is renewed every time you select [WPS (PIN)].

1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup].

2. IP Address setting/Proxy server:

automatic setting: [Set up network connection] → [Easy]

manual setting: [Set up network connection] → [Expert] b[Wired Set-up] or [Wireless Set-up]

3. Select [WPS (Push Button)] for Push Button method or [WPS (PIN)] for PIN method.

Note

Button name of the WPS may differ depending on the router (e.g. AOSS button).

4. Follow the instructions on the set-up screen.

Note

- If you use WPS for network set-up, the security settings of the wireless LAN router activate, and any equipment previously connected to the wireless LAN in a non-secure status will be disconnected from the network.

In this case, activate the security settings of the disconnected equipment and then reconnect. Or, you can deactivate the security settings of the wireless LAN router, and then connect the equipment to a TV in a non-secure status.

- To use the network with IPv6, select [Settings] → [Preferences] → [Setup] → [Network] → [IPv6/IPv4 Priority] → [IPv6], then select [Easy] in [Set up network connection].
- When IPv6 is selected, HTTP Proxy cannot be set.

Type 2: Secured network without Wi-Fi Protected Setup™ (WPS)

To set up a wireless LAN, SSID (wireless network name) and security key (WEP or WPA key) will be required. If you do not know them, consult the instruction manual of your router.

1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup].
2. IP Address setting/Proxy server:
 - automatic setting: [Set up network connection] → [Easy]
 - manual setting: [Set up network connection] → [Expert] → [Wired Set-up] or [Wireless Set-up]
3. Select [Scan], then select a network from the list of scanned wireless networks.
4. Follow the instructions on the set-up screen.

Note

- To use the network with IPv6, select [Settings] → [Preferences] → [Setup] → [Network] → [IPv6/IPv4 Priority] → [IPv6], then select [Easy] in [Set up network connection].
- When IPv6 is selected, HTTP Proxy cannot be set.
- Please make sure your surrounding is secure when you key in your password.

Type 3: Unsecured network with any type of wireless LAN router

To set up a wireless LAN, SSID (wireless network name) will be required.

1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup].
2. IP Address setting/Proxy server:
 - automatic setting: [Set up network connection] → [Easy]

– manual setting: [Set up network connection] → [Expert] → [Wired Set-up] or [Wireless Set-up]

3. Select [Scan], then select a network from the list of scanned wireless networks.

4. Follow the instructions on the set-up screen.

Note

- Security key (WEP or WPA key) will not be required because you do not need to select any security method in this procedure.
- To use the network with IPv6, select [Settings] → [Preferences] → [Setup] → [Network] → [IPv6/IPv4 Priority] → [IPv6], then select [Easy] in [Set up network connection].
- When IPv6 is selected, HTTP Proxy cannot be set.

Type 4: Wired network set-up

Enter the respective alphanumeric values for your router if necessary. The items that need to be set (e.g. IP Address, Subnet Mask, DHCP) may differ depending on the Internet service provider or router. For details, refer to the instruction manuals provided by your Internet service provider, or those supplied with the router.

1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup].

2. IP Address setting/Proxy server:

– automatic setting: [Set up network connection] → [Easy]

– manual setting: [Set up network connection] → [Expert] → [Wired Setup] or [Wireless Set-up]

3. Follow the instructions on the set-up screen.

[Network Setup] can also be set from [Initial Setup] menu.

Note

- Allows automatic configuration of your wired/ wireless network.

When connecting with LAN cable: Wired

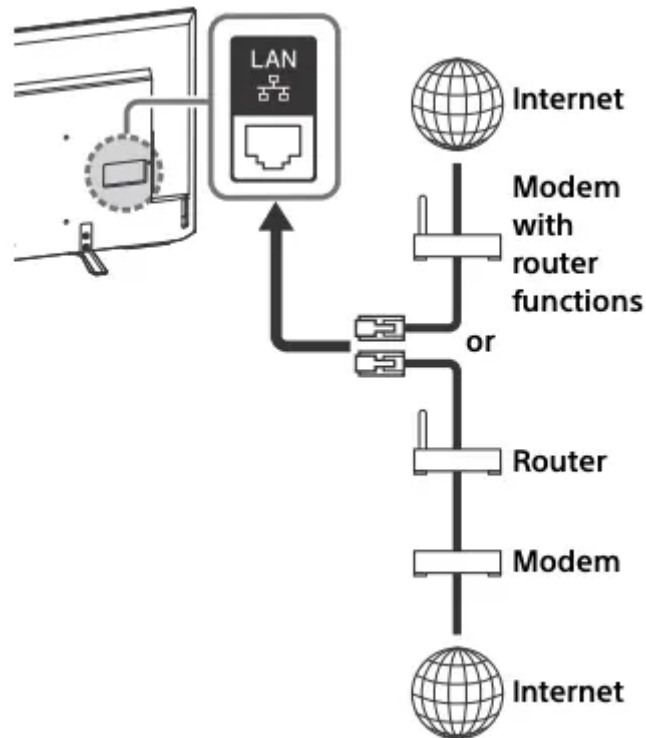
When connecting with built-in Wireless LAN: Wireless

When connecting with both of the cables: Wired

- Set to [Easy], sets the IP address automatically. For proxy server is not use.
- To use the network with IPv6, select [Settings] → [Preferences] → [Setup] → [Network] → [IPv6/IPv4 Priority] → [IPv6], then select [Easy] in [Set up network connection].
- When IPv6 is selected, HTTP Proxy cannot be set.

Preparing a Wired Network

TV



Note

- For LAN connections, use a Category 7 cable (not supplied).

Viewing the Network Status

You can confirm your network status.


1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup].
2. Select [Network Status].

If You Cannot Connect to the Internet

Use the diagnosis to check possible causes for network connection failures, and settings.

1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup].
2. Select [Network Status].
3. Select [Check Connection]. This may take several minutes. You cannot cancel the diagnosis after selecting [Check Connection].

Watching TV

1. Press  on the TV or POWER on the remote control to turn on the TV.
2. Press PIC OFF to turn picture off, and sound remains on.
3. Press the number buttons or CH +/- to select a TV channel.
4. Press VOL +/- to adjust the volume.

Select Your Content Source

Whether you are watching cable, satellite or broadcast TV; playing a VCR, DVD or Blu-ray Disc; or connecting to your PC, you need to choose the correct input using your remote control:

- Press the INPUT button repeatedly until your selection is highlighted on-screen.

Adjust Screen Shape and Aspect Ratio

High Definition and Standard Definition signals are transmitted with different aspect ratios (the width-to-height ratio of the image).

The 16:9 aspect ratio (common to most HD signals) looks perfect on your BRAVIA.



The boxy 4:3 aspect ratio (common to most SD signals) must be adjusted to fill the screen.



- Press the WIDE button on your remote control to display the [Wide Mode] setting of your preference.

Customize Sound and Picture Quality

You can choose optimum sound and picture settings to match the content you are displaying on your TV:

- Press the remote control's HOME button, select [Settings] → [Preferences], then select the [Picture] and [Sound] settings to adjust the picture and sound quality of your content.

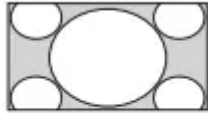
Refer to your operating instructions manual for more information on adjusting or customizing your settings.

Changing the Viewing Style

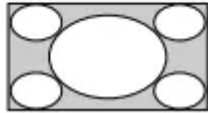
Changing the Wide Mode

- 1. Press WIDE repeatedly to select the wide mode.**

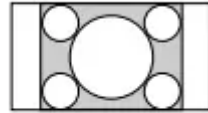
[Wide Zoom]*



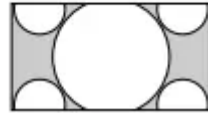
[Full]



[Normal]



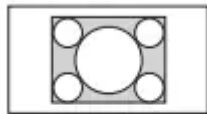
[Zoom]*



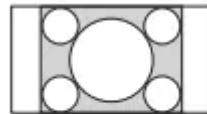
* Parts of the top and bottom of the picture may be cut off.

For HDMI PC Input (PC timing)

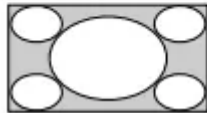
[Normal]



[Full 1]

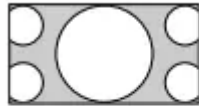


[Full 2]



For HDMI DCI 4K (4096 × 2160p)

[Normal]





[Full 1]



[Full 2]



Setting Scene Select

1. Press OPTIONS.
2. Press  then  to select [Scene Select]. When you select the desired scene option, the optimum picture and sound quality for selected scene are automatically set. The options you can select may vary. Unavailable options are greyed out.

Navigating through Home Menu

The HOME button allows you to access a variety of TV settings and features.

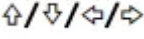

All Apps

Internet Contents delivers a variety of ondemand entertainment straight to your TV. You can enjoy your favorite internet content, Photo Sharing Plus and Photo Frame Mode.

Note

- Be sure to connect your TV to the Internet and complete [Network Setup] (page 28).

To use Internet Contents

1. Press HOME, then select [All Apps].
2. Press  to select the desired internet service in service list.
3. Press  to launch the desired internet contents.
4. Press the yellow/blue/red/green button to filter the app category by Photo/Music/Video/All.

To exit Internet Contents

Press HOME.

Note

- If you experience difficulties with this feature, check that the Internet connection is set up properly.
- The interface to Internet content depends on the Internet content providers.
- To update Internet Contents services, Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Refresh Internet Content].

To use NETFLIX

Press NETFLIX button on the remote control to launch menu.

Note

- It is possible that Netflix cannot be used via a Proxy server.

Photo Sharing Plus

Connect, view and save favourite photos on TV using your devices (eg. smartphones or tablets).

HOME → [All Apps] → [Photo Sharing Plus]

Note

- Follow the instructions on the screen to connect your device to the TV.
- Open web browser on device after all connections are established, then follow the instructions on the screen to access the URL.

To display photo on TV

1. Tap on your device to start.

2. Select a photo. The selected photo will be displayed automatically on TV.

To save a photo displayed on TV

- Tap thumbnail on your device, then hold the photo to open the context menu.
- Select [OK].

Note

- Connect a USB flash drive to store up to 50 photos.
- Up to 10 smartphones or tablets can be connected to the TV at the same time.
- Maximum file size of each photo is 20 MB.
- You can also throw a background music with a maximum file size of 30 MB.
- The default browser for Android 2.3 or later is supported.
- The default browser for iOS is supported; however, some functions cannot be used depending on the version of your iOS.



Using the TV as a Photo Frame Mode

Photo Frame Mode displays the clock and calendar at the same time as displaying a photo and listening to music.

HOME → [All Apps] → [Photo Frame Mode]



To launch Photo Frame Mode while playback USB media

1. Press OPTIONS while playback a photo or music file.
2. Press  then  to select [Photo Frame Mode] to launch Photo Frame.

To select Display mode

You can change the Photo Frame Mode display by selecting [Display Mode] in the [Photo Frame Settings] (page 28).

To select Clock Display mode

You can select among three clock display modes by selecting [Clock Display] in the [Photo Frame Settings] (page 28).

Note



- This TV does not have a battery powered backup for the clock. If there is a power failure or if you disconnect the power cord, the current date and time will reset automatically

Duration

To save power, the TV continually plays back in Photo Frame Mode for up to 24 hours before powering off automatically. After automatic power off, do not use Photo Frame Mode for at least one hour to avoid panel burn-in. You can change the setting of the [Duration] in the [Photo Frame Settings] (page 28).

To avoid panel burn-in, the position of the photo, clock and calendar are switched automatically every hour.

Favorites

1. Press HOME.
2. Press  then  to select [Favorites].



3. Press  then  to select a program.

Media









Playback Photo/Music/Video via USB

You can enjoy photo/music/video files stored in a Sony digital still camera/ camcorder/smartphone (depending on models)* through a USB cable or USB storage device on your TV.

1. Connect a supported USB device to the TV.

* Device needs to be in Media transfer mode (MTP).

2. Press HOME.

3. Press  then  to select [Media].
4. Press  then  to select [Photo], [Music] or [Video].
5. [Device Selection] appears. Press  then  to select a device.
6. Press  then  to select a file or folder.

Playback Method

Press the yellow color button in thumbnail view to display list of USB playback settings.

Display Settings

Press OPTIONS in thumbnail view to display the option to change the thumbnail view to list view.

To adjust the picture and sound quality of USB media

Press OPTIONS during media playback then select [Picture] or [Sound].

Note

- Press  then  to select and adjust an item.

To play a photo as a slideshow (Photo)

1. Press the blue button in thumbnail/ list view to start slideshow. To set [Slideshow Effect] and [Slideshow Speed], press OPTIONS → [Playback Method]. To stop a slideshow, press RETURN.

Note

- While the TV is accessing the data on a USB device, observe the following:
 - Do not turn off the TV.
 - Do not disconnect the USB cable.
 - Do not remove the USB device.

The data on the USB device may be damaged

- Sony will not be held liable for any damage to, or loss of, data on the recording media due to a malfunction of any connected devices or the TV.
- USB Auto Start shows photo files in the newest digital still camera folder (DCF-compliant, highest-numbered "DCIM" folder).
- USB Auto Start may not work automatically when some digital still cameras are connected.
- When you connect a Sony digital still camera, set the camera's USB connection mode to "Auto" or "Mass Storage." For more information about USB connection mode, refer to the instructions supplied with your digital camera.

- Use a USB storage device that is compliant with USB Mass Storage Class standards.
- The file system on the USB device supports FAT16, FAT32 and NTFS.
- The file name and folder name may not display correctly in some cases.
- If a selected file has incorrect container information, or is incomplete, it cannot be played back.

USB Video format

- AVI (.avi)

Video Codec: MPEG1, MPEG2, Xvid, MPEG4, H.264, Motion JPEG

Audio Codec: PCM, MPEG1 Layer1/2, MP3, MPEG2 AAC (2ch), MPEG4 AAC (2ch), MPEG4 HE-AAC (2ch), Dolby Digital (2ch), WMA v8, Dolby Digital Plus (2ch)

- ASF (.wmv, .asf)

Video Codec: WMV v9, Xvid, VC-1

Audio Codec: MP3, WMA v8

- MP4 (.mp4, .mov, .3gp)

Video Codec: MPEG4, H.264, H.263, Motion JPEG, H.265

Audio Codec: MPEG1 Layer1/2, MP3, MPEG2 AAC, MPEG4 AAC, MPEG4 HE-AAC

- MKV (.mkv)

Video Codec: WMV v9, MPEG4, H.264, VC-1, VP8, VP9, H.265

Audio Codec: PCM, MPEG1 Layer1/2, MP3, MPEG2 AAC (2ch), MPEG4 AAC (2ch), MPEG4 HE-AAC (2ch), Dolby Digital (2ch), WMA v8, Dolby Digital Plus (2ch), DTS, FLAC, VORBIS

- WebM (.webm)

Video Codec: VP8, VP9

Audio Codec: VORBIS

- PS (.mpg, .mpeg, .vro, .vob)

Video Codec: MPEG1, MPEG2

Audio Codec: MPEG1 Layer1/2, MP3, Dolby Digital (2ch), Dolby Digital Plus (2ch), DTS, DTS 2.0

- TS (.ts, .m2ts)

Video Codec: MPEG2, H.264, VC-1, H.265

Audio Codec: MPEG1 Layer1/2, MP3, MPEG2 AAC, MPEG4 AAC, MPEG4 HE-AAC, Dolby Digital (2ch), Dolby Digital Plus (2ch), DTS, DTS 2.0

Playback Photo/Music/Video via Home Network

You can enjoy various content (e.g. photo/ music/video files) stored on DLNA Certified™ media servers. The home network feature allows you to enjoy network content in other rooms.

Playing photo/music/video

1. Press HOME, then select [Media] → [Photo], [Music] or [Video] → the desired media server.
2. Select files or folders to play from the list.

Note

- The server is required to be DLNA Certified™.
- Files from a network device need to be in the following formats:
 - Still images: JPEG
 - Music: MP3, linear PCM, WMA
 - Video: AVCHD, MPEG2, MPEG1, MP4 (AVC), MP4 (MPEG4), WMV
- Depending on the file, playback may not be possible even when using the supported formats.

Renderer

You can play back photo, music and video files stored in network devices (e.g. digital still cameras, mobile phones, PC) on the TV screen by directly operating the target device. The network should also be renderer-compatible devices.

Renderer settings

Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Home Network Setup] → [Renderer].

Display Settings for Media Servers

Select home network servers to be displayed in the Home Menu. Up to 10 servers can be displayed.

1. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Home Network Setup] → [Show/Hide Media Servers].
2. Select the server to display in the Device Selection.

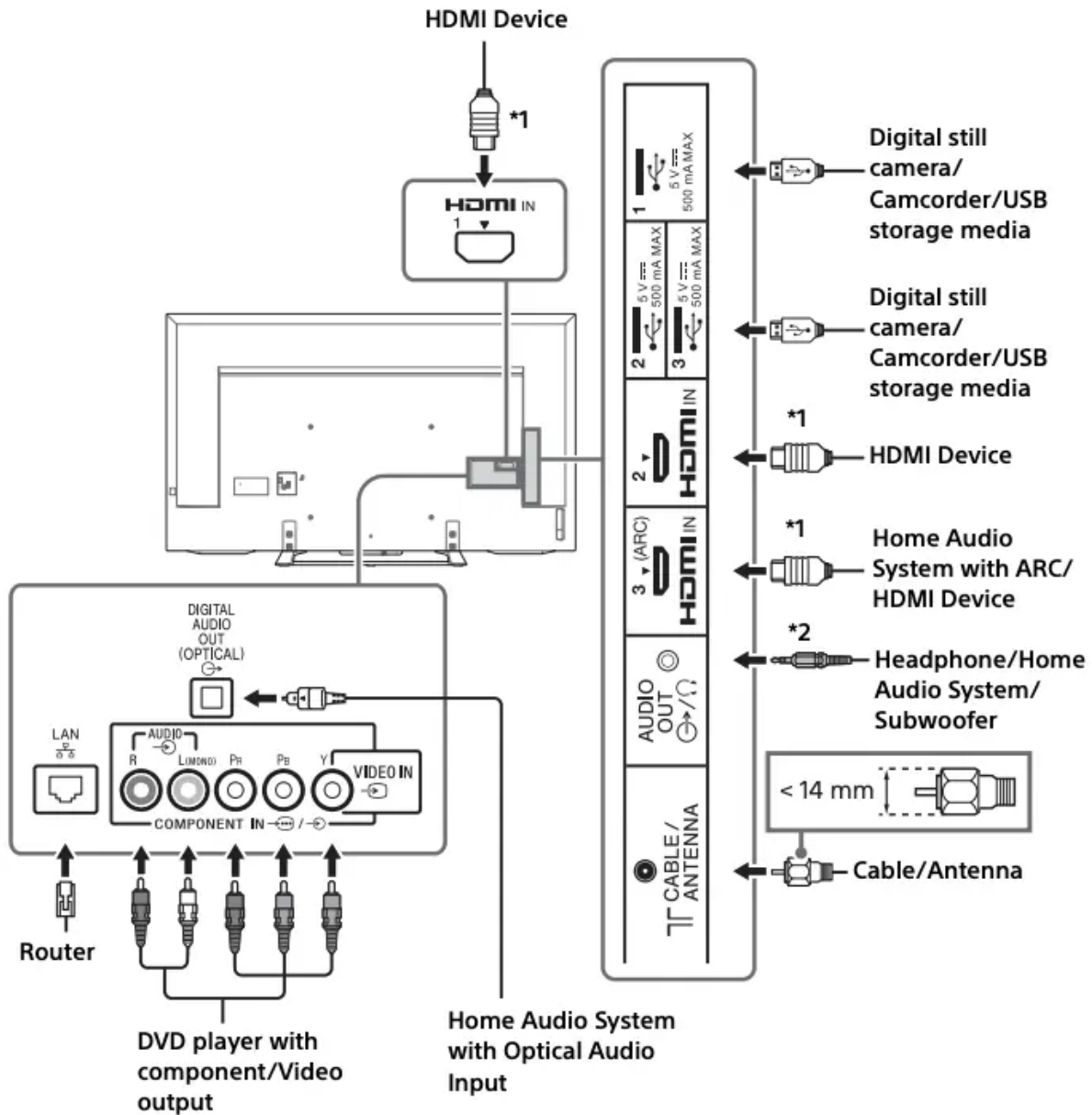
Viewing Pictures from Connected Equipment

Connection Diagram

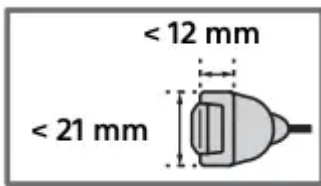
You can connect a wide range of optional equipment to your TV.

Note

- Depending on TV model, connecting a large USB device may interfere with other connected devices beside it.
- When connecting a large USB device, connect only 1 USB jack.



Note



*1

*2 Supports 3-pole stereo mini jack only.



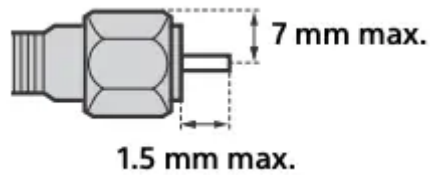
Connecting the TV

Note

- Use an antenna cable connector no greater than 14 mm thick.
- When connecting the cable to the Cable/ Antenna, input finger tighten only, over tightening the connection can damage the TV.
- Use an HDMI cable connector within 12 mm (thickness) × 21 mm (width).

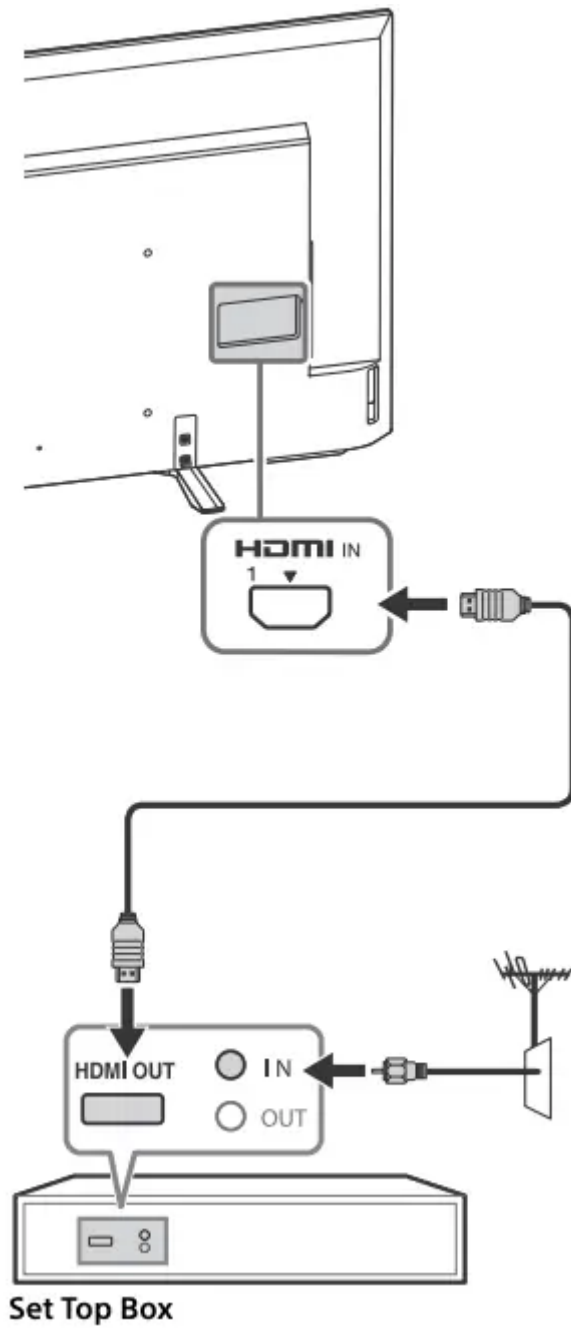
Recommendation for an F type plug

Projection of the inner wire from the connection part must be less than 1.5 mm.



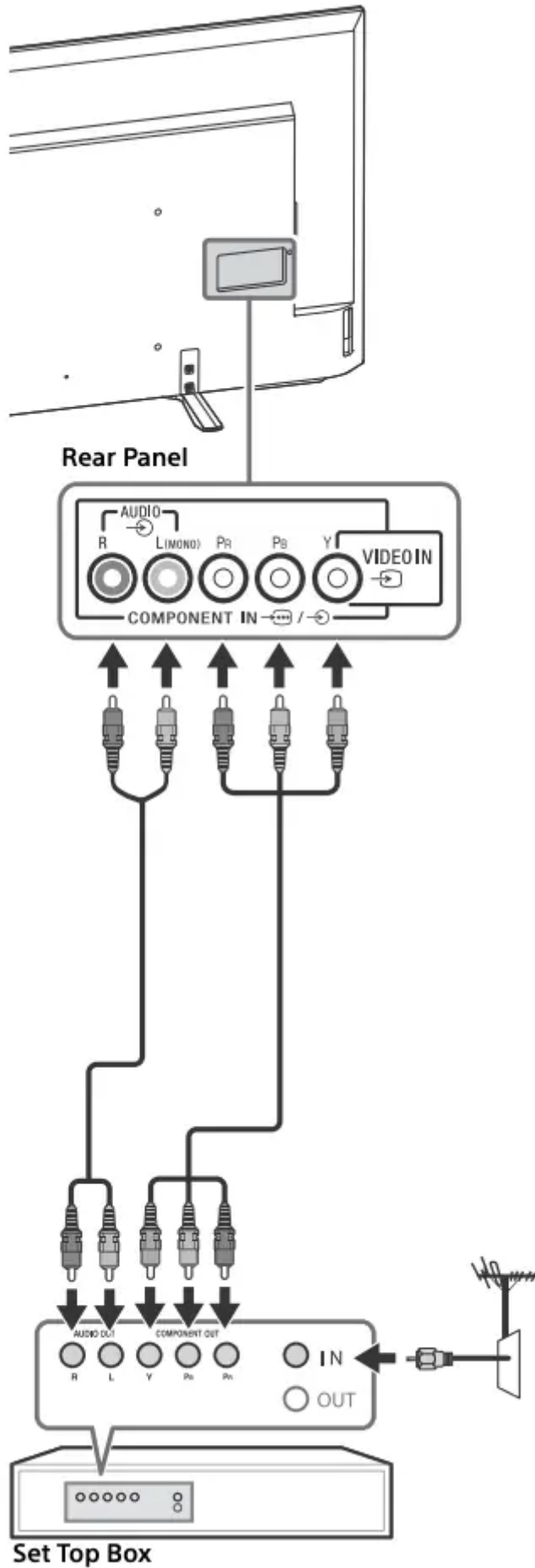
(Reference drawing for an F type plug)

Showing a Set Top Box with HDMI connection

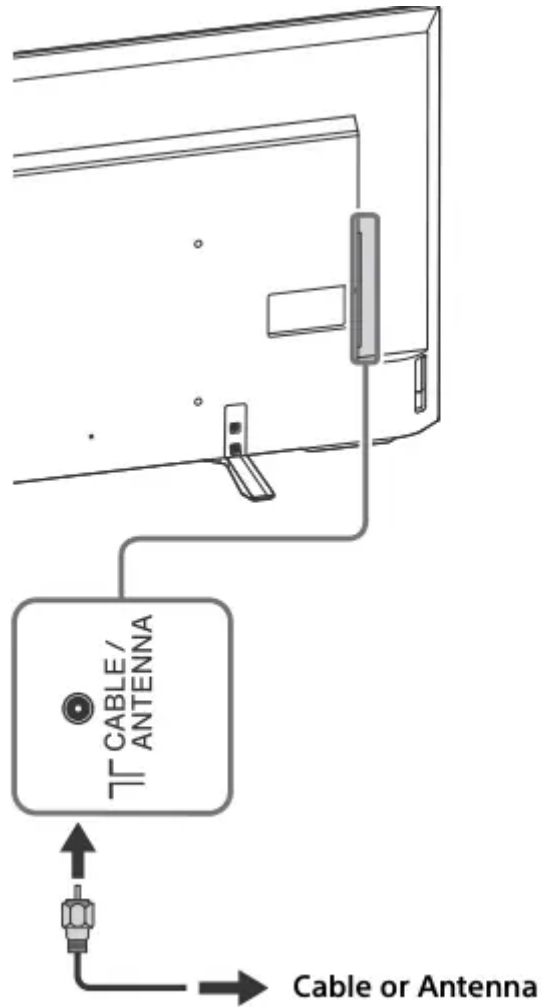


Showing a Set Top Box with Component connection



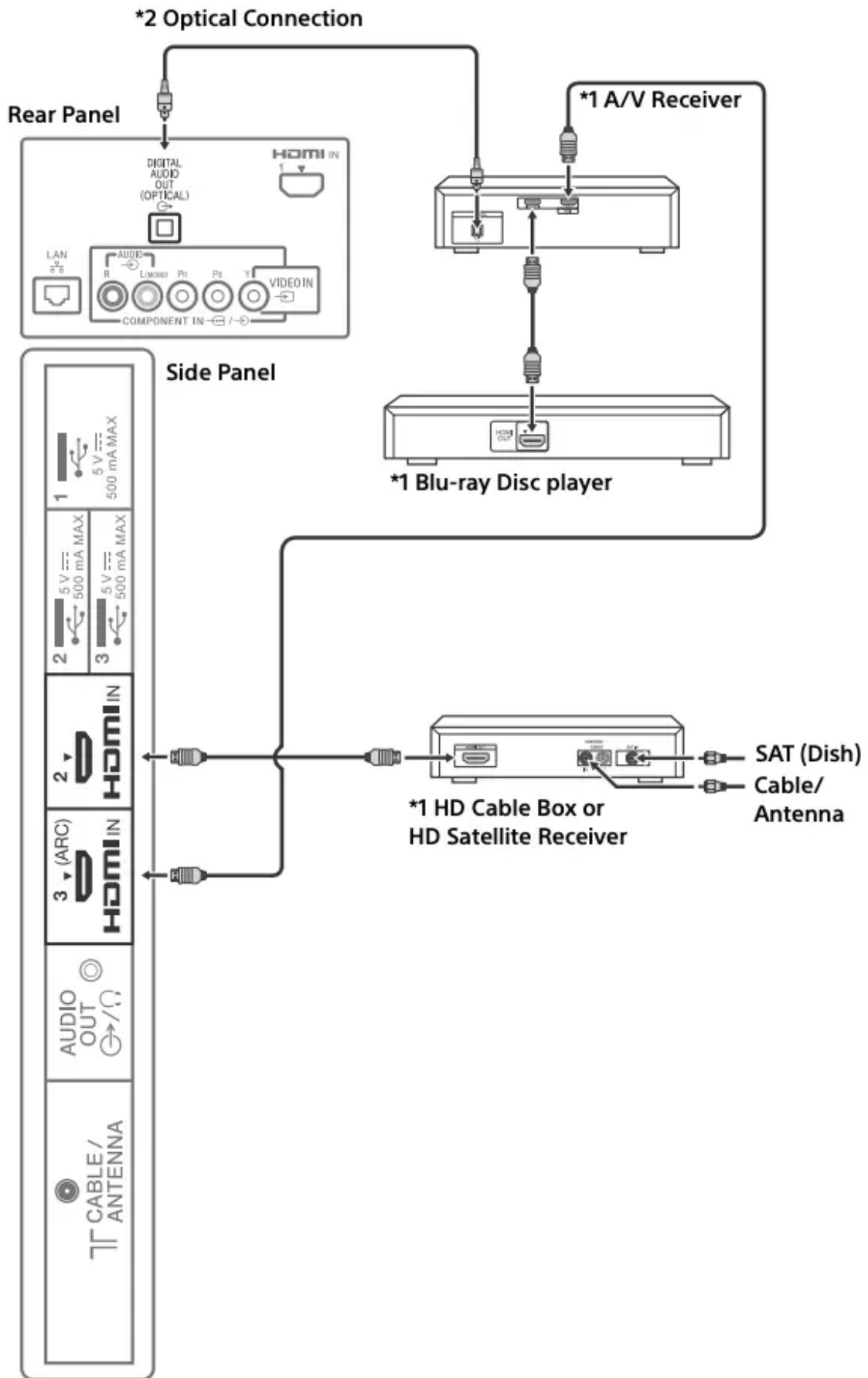


Cable System or VHF/UHF Antenna System



Showing HD BRAVIA® Sync™ Basic Connection





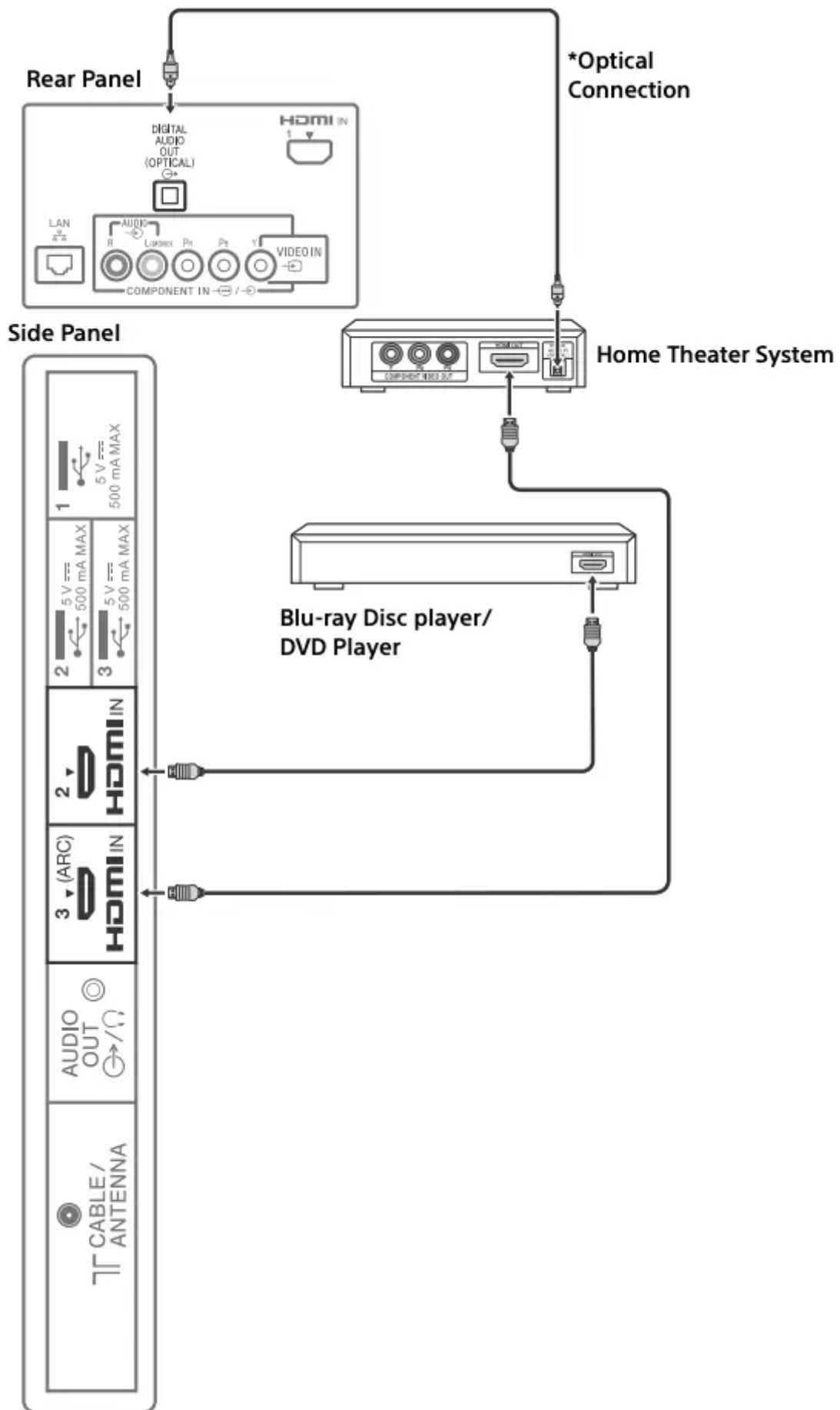
*1 Signifies a BRAVIA Sync capable device.



*2 The optical connection is only needed for A/V receivers that do not support ARC (Audio Return Channel).

Showing HD Basic Connection with Home Theater System



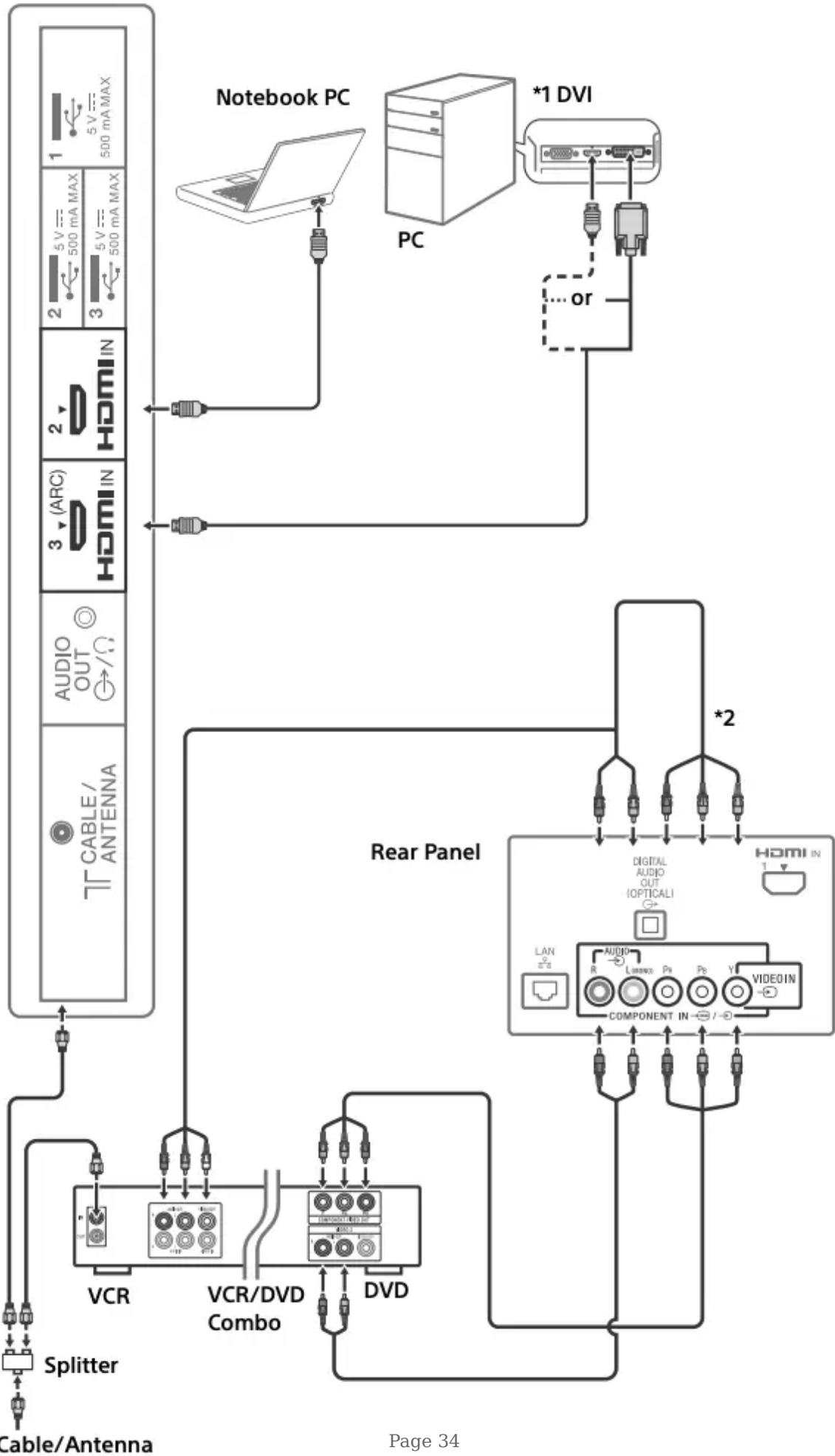


* The optical connection is only needed for home theater system that do not support ARC (Audio Return Channel) when connecting with HDMI.

Showing PC Connection with SD VCR/DVD





Side Panel



*1 DVI does not support audio signals. Connect the audio output of the PC to the PC speakers or an A/V receiver to listen to sound from the PC.

*2 If you are connecting to player with video output, connect the green cable only.

Using Audio and Video Equipment

1. Turn on the connected equipment.
2. Press INPUT to display the input source.
3. Press  then  to select the desired input source. The highlighted item is selected if 5 seconds pass without any operation.

Note


- When connecting a digital audio system not compatible with Audio Return Channel (ARC) technology using an HDMI cable, you need to connect an optical audio cable to the DIGITAL AUDIO OUT (OPTICAL) to output digital sound.
- When connecting with an HDMI cable, be sure to use HighSpeed HDMI Cable with Cable Type Logo. When devices supporting High-Quality HDMI formats such as 4K 60p 4:2:0 10bit, 4:4:4, 4:2:2 to HDMI IN 2 or IN 3, please use a Premium High Grade HDMI Cable that supports speed of 18 Gbps bearing the HDMI logo. (Recommended SONY Cable).
- When connecting mono equipment, connect the audio cable to the L (mono) jack.

To use BRAVIA Sync devices


When connecting the TV to BRAVIA Sync compatible equipment, you can control them together. Be sure to perform the necessary settings in advance. The BRAVIA Sync Control settings must be set on both the TV and the connected equipment. See [BRAVIA Sync Settings] (page 31) for the settings on the TV side. Refer to the connected equipment operating instructions for the settings on the connected equipment side.

Using Screen Mirroring

Screen mirroring displays the screen of a compatible device (e.g. smartphones) on your large TV screen by Miracast technology. No wireless router (or access point) is required to use this feature

1. Press INPUT button, then select [Screen mirroring] using  buttons.
2. Operate the Screen mirroring compatible device to connect with the TV. Once connected, the device screen will be displayed on the TV.

To show connected devices/delete device

When the waiting screen for the Screen mirroring is displayed, press OPTIONS, then select [Show Device List / Delete]. To deregister a device, select the device in the list to delete, press . Then, select [Yes] in the confirmation display

To display registration notification when attempting to connect a device with the TV

Activating this function can avoid an unintended device from being connected. When the standby screen for Screen mirroring is displayed, press OPTIONS, then select [Registration Notification] → [On]. Note that once you decline registration request from a device, you will not be able to connect the device unless you delete it from the device list.

To change the band setting (for experts)

When the standby screen for Screen mirroring is displayed, press OPTIONS, then select [Band Setting].


Note

- Connecting devices must conform to the following:
 - Screen mirroring compatible devices: 2.4GHz connection (5GHz not supported).
- For information about the supported wireless band of your device, refer to the instruction manual of your device.

Troubleshooting

When the LED indicator is flashing red, count how many times it flashes (interval time is three seconds).

If the LED indicator flashes red, reset the TV by disconnecting the AC power cord from the TV for two minutes, then turn on the TV. If the problem persists, contact Sony Customer Support (information provided on the front cover) with the number of times the LED indicator flashes red (interval time is three seconds).


Press  on the TV to turn it off, disconnect the AC power cord, and contact Sony Customer Support.

When the LED indicator is not flashing, check the items as follows. If the problem persists, have your TV serviced by qualified service personnel.

Picture

No picture (screen is dark) and no sound

- Check the cable/antenna connection.

- Connect the TV to the AC power outlet, and press  on the TV or POWER on the remote control.

No picture or no menu information from equipment connected to the video input jack appears on the screen

- Press INPUT to display the connected equipment list, then select the desired input.
- Check the connection between the optional equipment and the TV.

Double images or ghosting

- Check the cable/antenna connection, location or direction.

Only snow and noise appear on the screen

- Check if the antenna is broken or bent.
- Check if the antenna has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside).

Distorted picture (dotted lines or stripes)

- Keep the TV away from electrical noise sources such as cars, motorcycles, hairdryers or optional equipment.
- When installing optional equipment, leave some space between the optional equipment and the TV.
- Check the cable/antenna connection.
- Keep the antenna cable away from other connecting cables.

Picture or sound noise when viewing a TV channel

- Make sure that the antenna is connected using a 75-ohm coaxial cable (not supplied).
- Keep the antenna cable away from other connecting cords.
- To avoid TV interference, make sure to use an undamaged antenna cable.

Tiny black points and/or bright points appear on the screen

- The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.


Picture contours are distorted

- Change the current setting of [CineMotion] to other settings (page 23).

No color on programs

- Select [Reset] (page 23).

No color or irregular color when viewing a signal from the Y, PB, PR jacks of

- Check the connection of the Y, PB, PR jacks of  and check if each jacks are firmly seated in their respective jacks.

No picture from the connected equipment appears on the screen

- Turn the connected equipment on.
- Check the cable connection.
- Press INPUT to display the connected equipment list, then select the desired input.
- Correctly insert the memory card or other storage device in the digital still camera.
- Use a digital still camera memory card or other storage device that has been formatted according to the instruction manual supplied with the digital still camera.
- Operations are not guaranteed for all USB devices. Also, operations differ depending on the features of the USB device and the video being played.

Cannot select the connected equipment on the menu or cannot switch the input

- Check the cable connection.

Sound

No sound, but good picture

- Press VOL +/- or MUTING.
- Check if [Speakers] in [AV Setup] is set to [TV Speakers] (page 30).
- Check if the headphone plug is connected to the TV.

No sound or noisy sound

- Check if the TV system setting is appropriate (page 23).

Channels

The desired channel cannot be selected

- Switch between [Cable] and [Antenna] to select the desired digital/analog channel.

Some channels are blank

- The channel is for scrambled/subscription service only. Subscribe to a pay TV service.
- Channel is used only for data (no picture or sound).
- Contact the broadcaster for transmission details.

Network

What kind of devices can be connected to use the Screen mirroring function?

- Sony Screen mirroring compatible devices (Xperia) can be connected.

Video or sound sometimes cuts out

- Devices emitting radio waves, such as other wireless LAN devices or microwave ovens, may interfere with the Screen mirroring function using wireless LAN. Keep the TV or Sony Screen mirroring compatible devices (Xperia) away from such devices, or turn them off if possible.
- Communication speed may change according to the distance or obstacles between devices, device configuration, radio wave condition, line congestion or what device you use. Communication may cut out due to the radio wave condition.

Some pay contents cannot be played

- The source device needs to be compatible with HDCP (High-bandwidth Digital Content Protection) 2.0/2.1 system. Some pay contents may not be displayed via a noncompatible source device.

Apps are inaccessible

- Check that the LAN cable or AC power cord of the router/modem* has been connected properly.
- Your router/modem must be set in advance to connect to the Internet. Contact your Internet service provider for router/modem settings.
- Try using apps later. The app content provider's server may be out of service.

Sometimes video streaming quality is poor when using the wireless LAN

- The wireless network connection quality varies depending on the distance or obstacles (e.g. wall) between the TV and the wireless router (access point), environment interference, and quality of the wireless router (access point).

Wireless LAN connection fails or radio reception conditions are poor

- Check the installation location of the TV and wireless router (access point). Signal condition may be affected for the following reasons.
 - Other wireless devices, microwaves, fluorescent lights, etc., are placed nearby.
 - There are floors or walls between the wireless router (access point) and TV. If the problem persists even after checking the above, try making a wired LAN connection.

Poor picture on Internet Video

- Quality depends on the original video provided by the internet contents provider and your connection bandwidth.

Certain internet contents displays a loss of detail, especially during fast-motion or dark scenes

- Video quality and picture size depend on broadband speed and delivery by content providers.

Good picture quality but no sound on the internet contents

- Quality depends on the original content provided by the internet contents provider and your connection bandwidth.
- Due to the nature of Internet video, not all videos will contain sound.

Your TV cannot connect to the server

- Check the LAN cable or connection to your server and your TV.
- Check if your network is properly configured on your TV.

A message appears stating that the TV cannot connect to your network

- Check the current network settings. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Network Setup] → [Network Status]. If all of your network settings are “-”, your server may not be connected properly. Check your network connections and/or server’s instruction manual for connection information.
- Reconfigure your network settings.
- If the LAN cable is connected to an active server and the TV has acquired an IP address, check your DLNA Certified™ media server’s connections and configurations.

Note

Your IP address configuration can be viewed by selecting the [Network Status] option.

DLNA Certified™ media server is inaccessible although it is listed under [Media] in the Home Menu

- Check your LAN cable/connection or your server connections. The TV may have lost connection with the server.
- Perform [Media Server Troubleshooting] to check if your media server is properly communicating with the TV. Press HOME, then select [Settings] → [Preferences] → [Setup] → [Network] → [Home Network] → [Setup] → [Media Server Troubleshooting].

When using the renderer function, music files cannot be played back

- Some applications display a photo file preinstalled in the PC simultaneously with music playback when using the renderer function. Depending on the pre-installed photo file, music playback may not be possible, but may become possible by changing the photo file.

You could not connect Internet

- Check that the LAN cable or AC power cord of the router/modem* has been connected properly.
- Your router/modem must be set in advance to connect to the Internet. Contact your Internet service provider for router/modem settings.

You do not have YouTube ID

- If you do not have a YouTube ID and password, register them through the address below. You can also register a YouTube ID and password from your PC.) After registering your ID, you can use it immediately.

General

The TV turns off automatically (the TV enters standby mode)

- Check if the [Sleep Timer] is activated page 30).
- Check if the [Duration] is activated by [On Timer] (page 30) or [Photo Frame Settings] page 28).
- Check if the [Idle TV Standby] is activated page 32).

Some input sources cannot be selected

- Select [Manage Inputs] and select [Always] of the input source (page 30).

The remote control does not function

- Replace the batteries.

HDMI equipment does not appear on BRAVIA Sync Device List

- Check that your equipment is compatible with BRAVIA Sync Control.

Cannot select Off in BRAVIA Sync Control

- If you have connected any audio system that is compatible with BRAVIA Sync Control, you cannot select [Off] in this menu. To change the audio output to the TV speaker, select [TV Speakers] in the [Speakers] menu(page 30).

The Parental Lock password has been forgotten




- Enter 4357 for the password.

- Update password by selecting [Settings] → [Preferences] → [Parental Lock] → [Change Password].

Store Display Mode or Promoting Feature Logo appears on the screen

- On the remote control, press RETURN then press HOME and select [Settings] → [Preferences] → [Setup] → [Initial Setup]. Be sure to select [Home] in [Location].

How to reset the TV to factory settings

- Turn on the TV. While long press  on the remote control, press  on the TV. (The TV will turn itself off, then back on again.) Release .

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.