

SONY

Television

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Getting Started

[Remote control buttons](#) This section describes remote control buttons.

[Connecting terminal](#)

[How the LEDs light up](#)

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[Selecting inputs](#)

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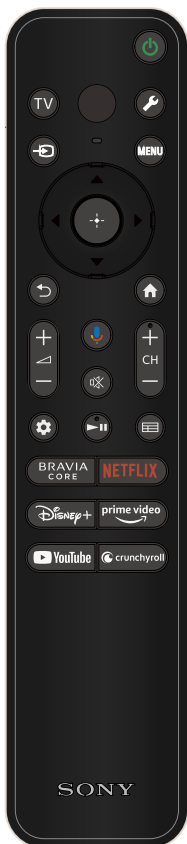
[Accessibility features](#)

[2] Getting Started

Remote control buttons

The supplied remote control, button layout, button names and available features vary depending on your model/country/region.

Click a button on the image of the remote control to display a description.



(Power)

Turns on or switches to standby/networked standby mode.

TV

Switch to a TV channel or input and display the TV menu. For details, refer to [Using the TV menu](#) page.

(MIC)

Speak into here to use the microphone in the remote control. There is an LED above the microphone.

(Quick Settings)

Display Quick Settings. For details, refer to [Using the Quick Settings](#) page.

Hint

- You can use the convenient [Find remote] feature to find the remote control by pressing the power button on the TV. For details, refer to [Finding the remote control \(only models supplied with a buzzer built-in remote control\)](#).

(Input select)

Display and select the input source, etc. For details, refer to [Selecting inputs](#) page.

MENU

Access functions from the onscreen menu.

(Up) / (Down) / (Left) / (Right) / (Enter) (Navigation D-Pad)

On screen menu navigation and selection.

(BACK)

Return to the previous screen.

(HOME)

Display the TV Home Menu. For details, refer to [Home menu](#) page.

+/- (Volume)

Adjust the volume.

(Google Assistant/Microphone)

Ask Google for a little help on the big screen. Press the Google Assistant (or MIC) button on the remote to get started.


For details, refer to [Using the remote control microphone](#) page.

Google Assistant is not available in certain languages/countries/regions.

(Mute)

Mute the sound. Press again to restore the sound.

Hint

- The accessibility shortcut service can be turned on or off by pressing and holding  (Mute) for 3 seconds.

CH +/- (Channel)

Select the channel.

(Dashboard)

Display Dashboard.

(Play) / (Pause)

Operate media contents on the TV and connected BRAVIA Sync-compatible device.

(Guide)

Display the digital programme guide of the TV or TV box (TV box control compatible models only). For details, refer to [Using the programme guide](#) page.




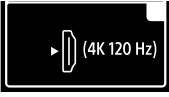
App buttons (Online service)




Enjoy various streaming services by the single press of a button.


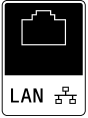



Connecting terminal

The types and shapes of connectors available vary depending on your TV.

For the location of the connectors, refer to the Setup Guide (printed manual).

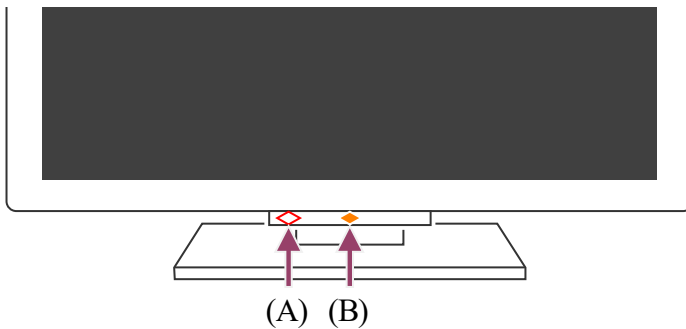
Terminal	Description
	<p>USB</p> <p>Connects to Digital still camera/Camcorder/USB storage media.</p> <p>Note</p> <ul style="list-style-type: none">• Connecting a large USB device may interfere with other connected devices beside it. In such a case, connect it to the other USB input.
	<p>🎧 (Headphone)</p> <p>Connects to the headphone jack to listen to sound from the TV. Supports 3-pole stereo mini jack only.</p>
	<p>HDMI IN</p> <p>Connects to the HDMI device. The HDMI interface can transfer the digital video and audio on a single cable. To enjoy high quality 4K contents, connect a Premium High Speed HDMI™ Cable(s) and follow the instructions displayed on the screen to set the [HDMI signal format] of the HDMI IN port.</p>
	<p>HDMI IN (4K 120 Hz)</p> <p>If you use an HDMI device that supports video output in 4K 100/120 Hz, connect the Ultra High Speed HDMI™ Cable, and follow the instructions displayed on the screen to set the [HDMI signal format] of the HDMI IN port.</p> <p>Note</p> <ul style="list-style-type: none">• 4K 100 Hz support depends on your country/region.

Terminal	Description
	<p>HDMI IN (eARC/ARC)</p> <p>To connect an audio system that supports eARC (Enhanced Audio Return Channel) or ARC (Audio Return Channel), connect to the HDMI port labelled “eARC/ARC” on the TV. It is a feature that sends audio to an audio system that supports eARC/ARC through an HDMI cable. If the audio system does not support eARC/ARC, you need to connect with DIGITAL AUDIO OUT (OPTICAL).</p>
	<p>DIGITAL AUDIO OUT (OPTICAL)</p> <p>Connects to an audio system with optical audio input.</p> <p>When connecting an audio system not compatible with ARC using an HDMI cable, you need to connect an optical audio cable to the DIGITAL AUDIO OUT (OPTICAL) to output digital sound.</p> <p>Note</p> <ul style="list-style-type: none"> • Optical audio output and S-CENTER SPEAKER IN share the same terminal. • To use as optical audio output, use the Digital audio connector adapter supplied with the TV. <p>S-CENTER SPEAKER IN</p> <p>Connects the TV and an audio device with an S-CENTER OUT output/jack using a TV centre speaker mode cable. Before connecting, make sure you unplug the AC power cord (mains lead) of the TV and audio device to be connected.</p> <p>For details, refer to Using the TV as a centre speaker.</p> <p>Note</p> <p>If you do not use the CENTER SPEAKER IN terminal or the S-CENTER SPEAKER IN input, you will need to perform the following steps to prevent noise from the speakers.</p> <ul style="list-style-type: none"> • Press the  (Quick Settings) button on the remote control, and disable [Acoustic Center Sync] in [Settings] — [Display & Sound] — [Audio output] — [Audio system settings].

Terminal	Description
	<ul style="list-style-type: none"> Optical audio output and S-CENTER SPEAKER IN share the same terminal.
	<p>ㄱㄴ (Cable/Antenna input) Connects to Cable/Antenna/External Box.</p> <p>Note</p> <ul style="list-style-type: none"> When connecting the cable to the Cable/Antenna input, finger tighten only, over tightening the connection can damage the TV.
	<p>LAN Connect to a Router. Connect to the Internet using a LAN cable.</p>
	<p>CENTER SPEAKER IN</p> <p>To use your TV speakers as the centre speaker, connect the output of your AV receiver to the CENTER SPEAKER IN on your TV.</p> <p>To use your TV speakers as the centre speaker, press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system].</p> <p>Note</p> <ul style="list-style-type: none"> Before connecting cables, disconnect the AC power cord (mains lead) of both the TV and AV receiver. If you do not use the CENTER SPEAKER IN terminal or the S-CENTER SPEAKER IN input, change the following setting to prevent noise from the speakers. Press the  (Quick Settings) button on the remote control, and disable [Acoustic Center Sync] in [Settings] — [Display & Sound] — [Audio output] — [Audio system settings].

How the LEDs light up

You can check the status of the TV by looking at how the LEDs light up.



(A) Voice function LED (On the left side at the bottom of the TV. Only TVs with a built-in MIC.*)

(B) Operational response LED (In the centre at the bottom of the TV.)

* The built-in MIC on the TV may not be available depending on your region/model/language.

Voice function LED

Turns “on” or “blinks” when “Ok Google” is detected and the TV is communicating with the server. The lighting pattern of this LED depends on the server communication status.

Note

- After you press the MIC/Google Assistant button on the remote control and finish activating the built-in MIC on the TV, the voice function LED turns on in pale yellow when the built-in MIC on the TV is off (when on, the Operational response LED turns on in amber). However, the lighting pattern of the LED may change depending on the settings.
- The colour of the voice function LED may vary due to specification changes.

Operational response LED

Turns “on” or “blinks” in white when the TV is turning on, when receiving signals from the remote control, or when updating the software using a USB storage device.

When [“Ok Google” detection] is enabled, it turns “on” in amber. (only TVs with a built-in MIC*)

* The built-in MIC may not be available depending on your region/model/language.

When the Built-in MIC switch is on, it turns “on” in amber (only TVs with a built-in MIC*).

However, the LED may not turn on depending on the settings.


* The built-in MIC may not be available depending on your region/model/language.

To use the built-in MIC, you may need to update the TV's software.

- Using the built-in MIC on the TV (only TVs with a built-in MIC)
- You want to disable the LED so that it does not light up or blink.
- Home network features
- Software updates

[5] Getting Started

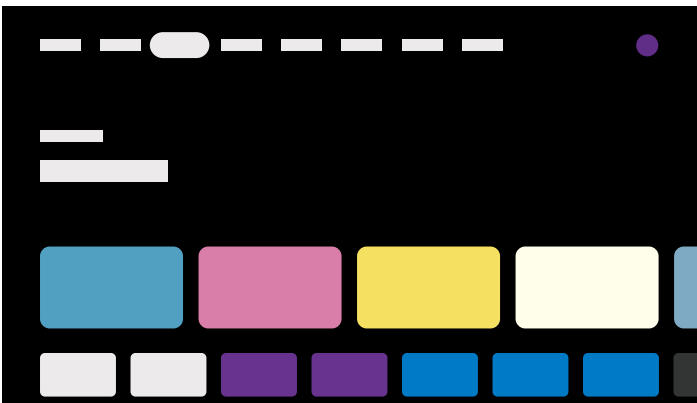
Home menu

The screen displayed when you press the  (HOME) button on the remote control is called the Home Menu. From the Home Menu, you can search for content and select recommended content, apps, and settings.

The items displayed on the Home Menu depends on whether a Google Account has been setup on the TV.

(Some features do not apply depending on your model/region/country. The images are for reference only. They may differ from the actual screen.)

(A) The Home Menu when a Google Account is setup on the TV



(B) The Home Menu when a Google Account is not setup on the TV



Setting up a Google Account and enjoying the TV

If you connect the TV to the Internet and setup a Google Account, you can install desired apps on the TV and enjoy Internet videos and use your voice to search for content.

Enjoying the TV without setting up a Google Account

Even if you do not setup a Google Account, you can watch TV broadcasts and/or view content from devices connected to the TV such as a Blu-ray player. If you connect the TV to the Internet, you can also use the Internet streaming services displayed on the Home Menu.

Note

- To setup a Google Account later and enjoy the TV, set up Google TV™ from the Home Menu or settings menu.
- If you delete the Google Account, the TV will return to the factory default settings.

Hint

- Depending on the TV settings, the Home screen will be displayed when the TV is turned on. If you change the following setting, you can change the screen that is displayed when the TV is turned on to the TV broadcast channel or external input such as HDMI that you were watching before turning off the TV.

1 Press the  (Quick Settings) button on the remote control.

2 Select [Power-on behaviour], and then select [Last used input].

The next time the TV is turned on, the TV broadcast channel or external input such as HDMI that you were watching before turning off the TV will be displayed.

Specifications may be subject to change without notice.






- For other information, see “Frequently Asked Questions” on the Sony Support Site.
[Frequently Asked Questions for Troubleshooting](#)

[6] Getting Started

Selecting inputs

To use devices (such as a Blu-ray/DVD player or USB flash drive) connected to the TV, or to watch TV after such use, you will need to switch the input.





If you edit the items and add apps, you will be able to switch to those apps in the input selection screen.

- 1 Press the  (Input select) button repeatedly to select the connected device. Alternatively, press the  (Input select) button, use the  (Left) /  (Right) buttons to select a connected device, and then press the  (Enter) button.





Note

- If there are no devices connected to an HDMI input, the HDMI input may not be displayed in the [Inputs].

To edit the input items

- 1 Press the  (Input select) button.
- 2 Press the  (Right) button (or  (Left) button depending on the TV's display language) and select  (Edit).
- 3 Select the app/input/device you want to show or hide.
- 4 Select [Close].

Hint

- To change the order or hide a displayed item, press the  (Up) button on the remote control with that item highlighted, and [Move] and [Hide] will be displayed. If you select [Move], use  (Left) /  (Right) on the remote control to move the item to the desired position, and then press the  (Enter) button on the remote control.
- You can switch to TV broadcasting by simply pressing the TV button on the remote control.

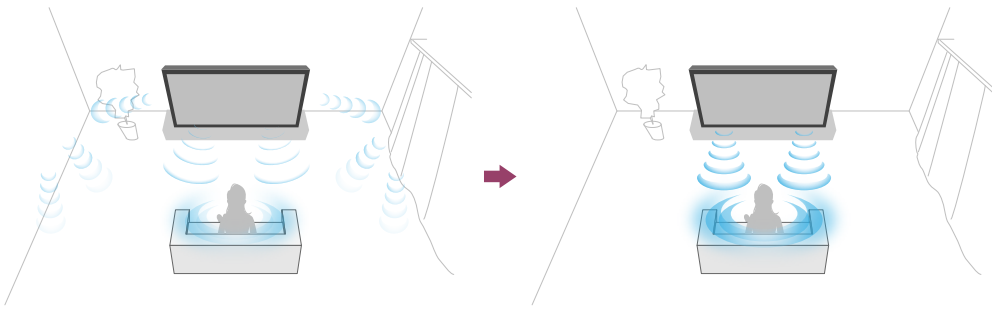
[7] Getting Started

Performing acoustic auto calibration

You can correct the audio to the best acoustics for your viewing environment by using the remote control microphone to measure a test sound from the TV. (This setting may not be available depending on the model.)

Models that support acoustic auto calibration have the following setting.

[Settings] — [Display & Sound] — [Ambient Optimisation Pro] — [Acoustic auto calibration]



Note

- Calibration effects will vary depending on your watching environment.
- A loud test sound will be played from the TV during measurement.
- Do not block the microphone opening at the end of the remote control during measurement.
- Do not move the remote control during measurement. Doing so may result in incorrect measurement.
- Perform the calibration when your surroundings are quiet. Noise may result in incorrect measurement.
- Acoustic auto calibration cannot be performed if you are using a sound bar. Change the following setting.

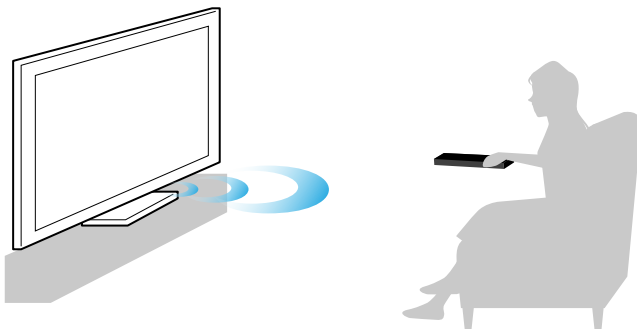
[Settings] — [Display & Sound] — [Audio output] — [Speakers] — [TV speakers]

- 1 Press the  (Quick Settings) button on the remote control, then select the following settings.**

[Settings] — [Display & Sound] — [Ambient Optimisation Pro] — [Acoustic auto calibration] — [Calibration setup]

- 2 Measure by following the on-screen instructions.**

The acoustics will be corrected automatically based on the measurement results of your watching environment.



Hint

Acoustic auto calibration may fail in the following cases.

- If the remote control is moved during measurement
- If there are sounds other than the test sound (such as noise) during measurement


[8] Getting Started


Accessibility features

This TV has accessibility features in [Accessibility] such as a text-to-speech function for on-screen text, zooming to make text easier to read, and subtitles.

Note

- Some features do not apply depending on your model/region/country.

Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — [Accessibility] to configure the user assistive features.

[Accessibility] has a shortcut function so you can turn it on or off by pressing and holding the  (Mute) button on the remote control for 3 seconds.

Hint

- To change the shortcut function, select [Accessibility shortcut] in [Accessibility], enable [Enable accessibility shortcut], and change the function in [Shortcut service].
- If you select [Accessibility tutorial] in [Accessibility], you can learn about user accessibility features supported by the TV. (This feature may not be available depending on your model.)
- To use text-to-speech with the Help Guide, view the Help Guide from the Sony support website using a computer or smartphone.
- For more information about accessibility, please visit the Sony support website.

<https://www.sony.net/A11y.GoogleTV/>

[9]

Useful features

[Searching for content/operating the TV with your voice](#)

[Displaying two screens](#)

[Selecting the Content type based on the current content](#)

[Enjoying preferred apps](#)

[Finding the remote control \(only models supplied with a buzzer built-in remote control\)](#)

[Enjoying safe apps and video streaming services \(Security and restrictions\)](#)

[Using the Camera and Microphone Unit \(BRAVIA CAM supported models only\)](#)

[10] Useful features

Searching for content/operating the TV with your voice

[Using the remote control microphone](#) This feature is available for TVs in which the included remote control has a Google Assistant/MIC button.

[Using the built-in MIC on the TV \(only TVs with a built-in MIC\)](#)

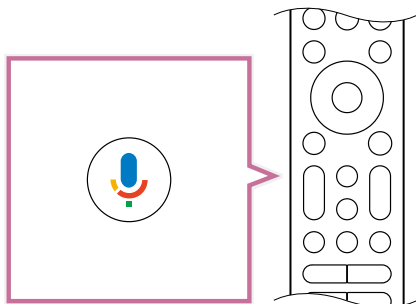
[11] Searching for content/operating the TV with your voice | Searching for content/operating the TV with your voice

Using the remote control microphone

Remote controls that support voice control have a Google Assistant/MIC button, and a built-in microphone. Ask Google to find movies, stream apps, play music, and control the TV - all with your voice. Press the Google Assistant (or MIC) button on the remote to get started.

1 Press and hold the Google Assistant/MIC button on your remote control.

The microphone on the remote control will be activated while the button is pressed, and the LED on the remote control will light up.



2 Speak into the microphone while pressing and holding the Google Assistant/MIC button.

Speech examples may be displayed depending on your model.



Search results are displayed when you speak into the microphone.

Note

- An Internet connection is required to use voice search.
- The type of remote control supplied with the TV, and the availability of a remote control with a built-in microphone varies depending on your model/region/country. An optional remote control is available in some models/regions/countries.
To use the built-in MIC, you may need to update the TV's software.
- To use the microphone on the remote control, you must add and set a Google Account to the TV.

[12] Searching for content/operating the TV with your voice | Searching for content/operating the TV with your voice

Using the built-in MIC on the TV (only TVs with a built-in MIC)

The built-in MIC on the TV may not be available depending on your region/country/language. To use the built-in MIC, you may need to update the TV's software.

For details about languages that support the built-in MIC on the TV feature, refer to the following Sony support website.

<https://www.sony.net/tv-hf/ga/>

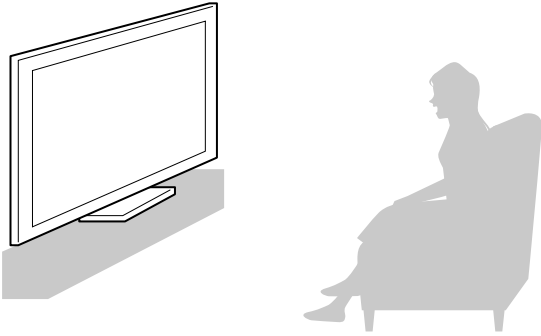
Hint

- The URL is subject to change without notice.

Do more on your TV using only your voice. Just start with “Ok Google” to:

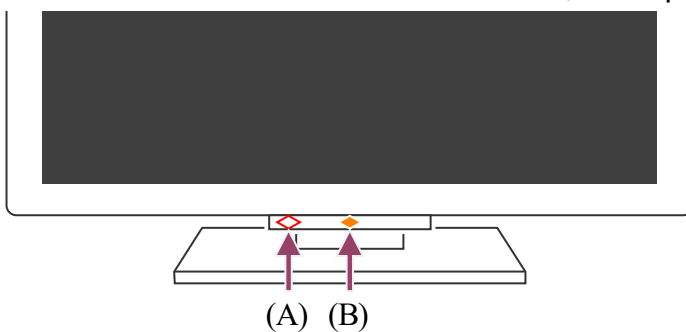
- Control your TV and smart home devices
- Enjoy music and entertainment

- Get answers
- Plan your day and manage tasks



Face the TV and say, "Ok Google" to get started.

When the voice function LED blinks white, start speaking.



(A) The voice function LED is located at the bottom just left of centre of the TV.

(B) The LED located at the bottom centre of the TV lights up amber when the TV is set to detect "Ok Google".

To use the built-in MIC, enable the following setting.

1 Turn on the built-in MIC switch on the TV.


For the location of the built-in MIC switch on the TV, refer to the Reference Guide/Setup Guide.

Note

- An Internet connection is required to use the TV's built-in MIC.
- In most cases, you can use the built-in MIC when the Built-in MIC switch is on. However, it may not be available depending on the TV settings.
- After turning on the built-in MIC switch on the TV, you need to press the MIC/Google Assistant button on the remote control to complete the setup, depending on your model/country/region. (Only models with the built-in MIC switch)
- Power consumption will increase when the built-in MIC is enabled as it is always listening.

Hint

- When the TV is set to detect "Ok Google", the Operational response LED lights up in amber even when the TV is turned off (you can also set it so it does not light up).
- The TV's built-in MIC may pick up sound from the surroundings and respond unintentionally. You can use [Built-in MIC sensitivity] to change the mic sensitivity.

Press the  (Quick Settings) button on the remote control, and select the following in order.

[Settings] — [System] — [Built-in MIC sensitivity]

Related topics

- [Connecting to a Network](#)
- [How the LEDs light up](#)
- [You want to disable the LED so that it does not light up or blink.](#)

[13] Useful features

Displaying two screens

To use this function, you may need to update the TV's software.

You can display two screens side by side, such as a broadcast and an app.



Displaying two screens

- 1 **While a broadcast or HDMI input image is displayed, press the MENU button on the remote control.**
- 2 **Select [Multi view] from the menu that is displayed at the bottom of the screen.**
Two screens are displayed.

3 Select the images to display on the left and right screens.

Use the ◀ (Left) / ▶ (Right) buttons on the remote control to select the screen you want to set, and press the ▼ (Down) or MENU button. Next, select [Apps/Inputs] and select an app or external input.

Hint

- You can select [Audio mix] in step 3 to adjust the volume ratio of the two screens.
- If you press the -|_|- (Enter) button on the remote control while the menu is displayed below the two screens, you can operate the menu in the screens. To exit in-screen operation and return to two-screen operation, press the MENU on the remote control.
- While in full screen mode, you can also press and hold the MENU on the remote control to switch to two-screen mode.

Note

- Some combinations cannot be displayed on two screens.
- For the broadcast and app combination, you can set the volume ratio or listen to only the audio of the app (you cannot listen to only the broadcast audio).
- Simultaneous audio output is not available for some apps.

Possible combinations for two-screen display

		Right screen			
		TV broadcast	HDMI input	App ^{*1}	Analogue input ^{*2}
Left screen	TV broadcast	-	✓	✓	✓
	HDMI input	✓	✓	✓	✓
	App ^{*1}	✓	✓	-	✓
	Analogue input ^{*2}	✓	✓	✓	✓

*1 Some apps cannot be displayed on the screen.

*2 Some models may not support analogue input.

Exiting two-screen display

- 1 Use the ◀ (Left) / ▶ (Right) buttons on the remote control to select the screen you want to display in full screen mode.
- 2 Press the ▼ (Down) button on the remote control and select [Full screen] from the menu.

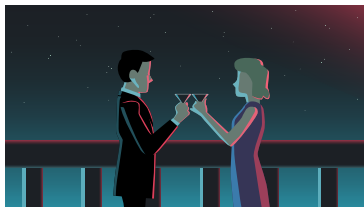
Hint

- You can also exit two-screen display by pressing and holding the MENU button on the remote control or by pressing the 🏠(HOME) button.

[14] Useful features

Selecting the Content type based on the current content

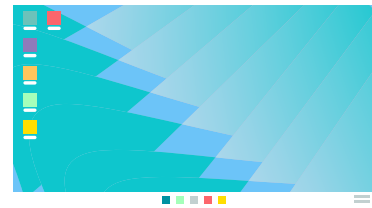
By selecting the Content type based on what you are watching, you can enjoy richer picture and sound quality.



Video



Game



PC

- 1 Press the ⚙️ (Quick Settings) button on the remote control, and then select the following in order.

[Settings] — [Display & Sound] — [Picture & Sound] — [Content type]

You can change the following settings.

Video/Images

Applies picture and sound quality suitable for watching video and still images.

Game

Applies picture and sound quality suitable for video games.

PC

Applies picture and sound quality suitable for video input from a PC.

Note

- Content type is not available with two screens.
- This setting may not be available depending on the input.

Related topics

- [Adjusting the picture/screen/sound quality to your preferences](#)
- [Displaying two screens](#)

[15] Useful features

Enjoying preferred apps

[Installing apps](#)

[16] Enjoying preferred apps | Enjoying preferred apps

Installing apps

You can install apps to the TV, just like you do with smartphones and tablets.

Note

- You can only install apps that are compatible with TVs. They may differ from apps for smartphones/tablets.
- An Internet connection and Google Account are required to install apps .


Hint

- If you do not have a Google Account or want to create a shared account, create a new account by accessing the following website.

<https://accounts.google.com/signup>

The website above may vary depending on your region/country. It is also subject to change without notice. For details, refer to the Google homepage.

- We recommend that you create a Google Account on a computer or mobile device.

- 1 Press the  (HOME) button, and from [Search] on the Home screen, say something like “Search for <app name> apps” to search for apps you want to install. Alternatively, select the input field and use the on-screen keyboard.**
- 2 Select an app from the search results and install it.**

Hint

- If the app search does not produce the desired results, say “Google Play Store”, and try searching for the app on the Google Play Store screen.
- You can also select a category from the Apps tab in the Home Menu and select a desired app.

After downloading, the app is automatically installed and added. You can select [Open] to launch the app.


Hint

- To start an installed app later, select the Apps tab in the Home Menu, and select [See all] at the right edge of the app area. Select the installed app to start it.

About paid apps

There are free apps and paid apps . To purchase a paid app, a prepaid Google Play gift card code or credit card information is required. You can purchase a Google Play gift card from various retailers.

To delete an app

- 1 Press the  (Quick Settings) button on the remote control, select [Settings] — [Apps], select an app to be deleted, and uninstall it.

Related topics

- [Connecting to a network using a LAN cable](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)

[17] Useful features

Finding the remote control (only models supplied with a buzzer built-in remote control)

The remote control supplied with the TV has a feature that allows you to find the remote control by playing a sound from a built-in buzzer when you cannot find it, such as when you do not remember where you left it (for example, under a cushion or hidden under a newspaper), or when you are watching a movie in a dark room.



Use the following procedures to find the remote control.

Using the power button on the TV

1 Press the power button on the TV.

A menu is displayed on the TV screen.

2 Follow the on-screen instructions and select [Find remote] on the displayed menu.

A buzzer plays from the remote control.

Note

- The [Find remote] option, which is displayed by pressing the power button on the TV, is only displayed when a remote control with a built-in buzzer is paired with the TV.
- There is a limit to the distance you can search for the remote control from your TV. The buzzer cannot be played by the remote control in places where the signals do not reach.

[18] Useful features

Enjoying safe apps and video streaming services (Security and restrictions)

You can ensure safe use of the TV by setting installation restrictions on apps that are downloaded from unknown sources, or age restrictions on programmes and videos. (Some features do not apply depending on your model/region/country.)

You can set the following [Parental controls] features in order to:

- Restrict TV channels and use of external inputs
- Restrict installation of apps from unknown sources
- Restrict use of apps (password lock feature)
- Restrict TV usage time

You can restrict features by setting the following.

To set age restrictions on programmes

- 1 Press the  (Quick Settings) button on the remote control, and then select the following in order.

[Settings] — [System] — [Parental controls] — [Channels] — [TV rating].

The options depend on your model/country/region/settings.

To restrict apps (password lock feature)

Set to restrict children from using apps such as internet browsers.

Set restrictions in [Parental controls] .

If this is set, you will be required to input the PIN when starting an app.



- 1 Press the  (Quick Settings) button on the remote control, and select the following in order.

[Settings] — [System] — [Parental controls] — [Apps]

- 2 Set or input the PIN.

- 3 Enable [Restrict apps].

- 4 Select the apps that you want to restrict from the app list.

Restricted apps will change from  (Unlocked) to  (Locked). To restrict all apps, select [All apps].

To detect harmful apps

- 1 Press the  (Quick Settings) button on the remote control, and select the following in order.

[Settings] — [Privacy] — [Security] and change the setting.

Hint

- Other separate restrictions may be available depending on the app. For details, refer to the app's Help.

To restrict usage time of the TV

Set to restrict the time in which children use the TV.

- 1 Press the  (Quick Settings) button on the remote control, and select the following in order.

[Settings] — [System] — [Parental controls] — [Screen time]

- 2 Set or input the PIN.

- 3 Enable [Restrict screen time] to start restriction.

The restriction setting will be displayed under [Restrict screen time]. To change the setting, set it in [Usage time limit] or [Restricted time slot].

[19] Useful features

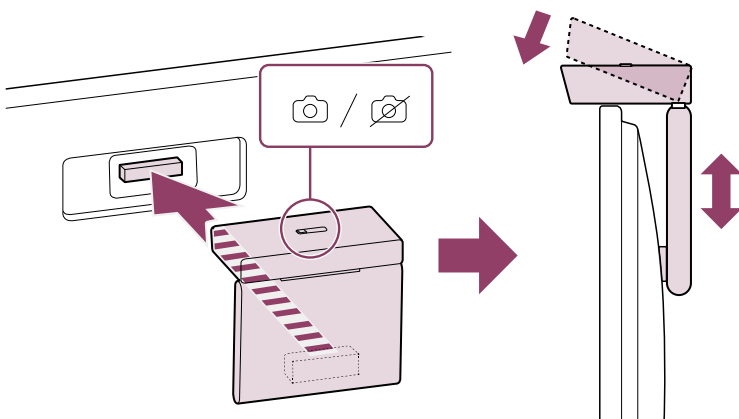
Using the Camera and Microphone Unit (BRAVIA CAM supported models only)

You can connect the supplied Camera and Microphone Unit (CMU-BC1M) to the TV to enjoy video chat or set the optimum image and sound quality for the user's viewing position.

Attaching and removing the Camera and Microphone Unit

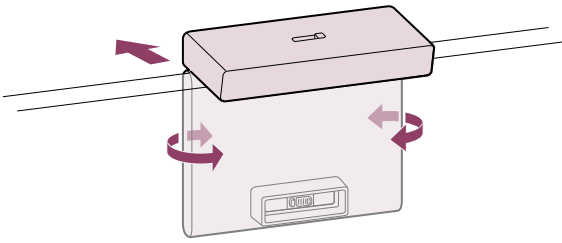
Attaching

Attach the supplied Camera and Microphone Unit to the Camera port on the back of the TV. You can adjust the angle and vertical position of the Camera and Microphone Unit.



Removing

To easily remove the supplied Camera and Microphone Unit, twist it slightly as shown in the figure below.



Note

- You may need to update the TV software to use the features of the Camera and Microphone Unit. Please update if a software update notification is displayed.

Setting the Camera sensing functions

Configure settings related to the sensor of the Camera and Microphone Unit.

- 1 Press the  (Quick Settings) button on the remote control, and select in the following order.

[Settings] — [Remotes and accessories] — [BRAVIA CAM] — the desired item

Available settings

[Auto adjust picture and sound] (BRAVIA XR models only)

The Camera and Microphone Unit detects the user's viewing position and automatically adjusts the screen brightness, volume, and audio balance.

[Brightness]

Automatically adjusts the brightness according to the viewing distance to make colours more visible.

[Voice emphasis]

Automatically adjusts the volume according to the viewing distance. If you are far from the TV, the sound is made more audible.

[Sound balance]

Adjusts the balance so it sounds as if you are viewing from the front of the TV even if you are actually not.

[Proximity Alert]

Notifies you if the TV viewing distance is too close.

You must input your PIN to enable this feature. When enabled, it will be set at 1 m (3 ft.) (default). You can select [Set distance] to set any distance.

[Auto power saving mode]

Automatically switches to power saving, such as reduced brightness, when a user is not detected in front of the TV for a certain period of time.

[Gesture Control]

Allows use of gestures in front of the TV to turn the TV off, adjust the volume, change the channel, or play back content.

Hint

[BRAVIA CAM] in the Camera and Microphone Unit has features available in addition to Camera sensing functions. Configure them as necessary.

- With Camera sensing functions, camera images are not sent to the network, you can erase the data collected by the Camera and Microphone Unit and reset Camera sensing functions.
[Settings] — [Remotes and accessories] — [BRAVIA CAM] — [Clear data]
- To turn off the Camera and Microphone Unit LED, disable the following setting.
[Settings] — [Remotes and accessories] — [BRAVIA CAM] — [Camera activity LED]
The LED will always turn on during video chat or while updating the Camera and Microphone Unit.
- Updating the software of the Camera and Microphone Unit may be required. To check for software updates, select the following in order.
[Settings] — [Remotes and accessories] — [BRAVIA CAM] — [Software update]

[20]

Watching TV

[Watching TV programmes](#)

[Useful features when watching TV](#)

[Adjusting the picture/screen/sound quality to your preferences](#)

[21] Watching TV

Watching TV programmes

[Understanding the information banner icons](#)


[Using the programme guide](#)

[Configuring channel settings](#)

[Using the TV menu](#)


Understanding the information banner icons

When changing the channel, an information banner appears briefly. The following icons may appear in the banner.

 :Data service (Broadcast application)


 :Radio service

 :Scrambled/Subscription service


 :Multilingual audio available

 :Subtitles available

 :Subtitles and/or audio available for the hearing impaired

 :Recommended minimum age for current programme (from 3 to 18 years)

 :Parental lock

 :Audio available for the visually impaired

 :Spoken subtitle audio available

 :Multi-channel audio available

Related topics


- [Using interactive broadcast TV services](#)
- [Channels & Inputs](#)

Using the programme guide


You can quickly find your preferred programmes.




The functions available depend on your region/country/settings.

- 1 Press the  (Guide) button to display the digital programme guide.
- 2 Select a programme to watch.

Using the [Favourites] feature

To add a channel to [Favourites], select  (Favourites) in the programme guide. If you select  (Favourites) in the [Guide] column that is displayed by repeatedly pressing the  (Left) button on the remote control, the channels registered in [Favourites] and your [Most watched] will be displayed in the programme guide.

Hint

- (TV box control compatible models only) If you perform the [TV box control setup] setting in [TV box setup] under [External inputs], you can display the programme guide of the TV box.
- You can change the channels displayed in the programme guide by using [Guide], which is displayed by pressing the  (Left) button on the remote control several times.
- With [Display interval], you can change the time axis displayed in the programme guide from two hours to four hours. You can set [Display interval] from [Settings] in the [Guide] column on the left side of the programme guide.

Related topics

- [How to control the TV box using the TV remote control](#)
- [An external device \(such as a TV box\) cannot be controlled using the TV's remote control. \(TV box control compatible models only\)](#)


Configuring channel settings

[Receiving digital broadcasts](#)


[Sorting or editing the channels](#)

[25] Configuring channel settings | Configuring channel settings | Configuring channel settings

Receiving digital broadcasts

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Auto tuning].
- 2 Follow the on-screen instructions to tune in all available digital channels and store them in the TV.

To change the tuning range

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Advanced settings] — [Tuning range] — [Normal] or [Extended].

[Normal]

Searches for available channels within your region/country.

[Extended]

Searches for available channels regardless of region/country.

Hint

- You can retune the TV by selecting [Auto tuning] and following the on-screen instructions after moving to a new residence, changing service providers, or to search for newly launched channels.


Related topics

- [Some digital channels are missing.](#)
-

[26] Configuring channel settings | Configuring channel settings | Configuring channel settings

Sorting or editing the channels

You can sort the channel display according to your preferred order.

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel list edit]. If multiple items are displayed, select the one you want to edit.**
- 2 Choose the channel you want to move to a new position.**
You can select to [Insert] or [Swap] the selected channel. To change it, select [Sorting type].
- 3 Choose the new position where you want to move the selected channel.**
- 4 Select [Done] to apply the changes.**

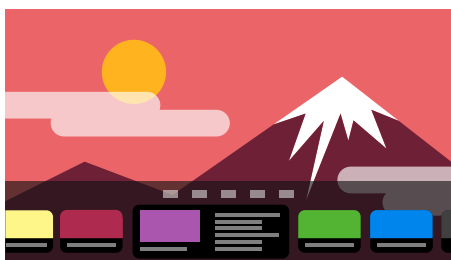
Note

- Available options may vary depending on your region/country.

[27] Watching TV programmes | Watching TV programmes

Using the TV menu

Press the TV button while watching a TV broadcast to display the [TV menu]. A channel list is displayed in [TV menu] and you can easily select programmes on other channels while watching TV.




Note

- The displayed screen and menus may vary depending on what you are watching and your model/country/region.

- 1 Press the TV button while watching a TV broadcast.**
The TV menu is displayed at the bottom of the screen.

2 Move the focus left or right and select the programme you want to watch.

Hint

- You can use the following features if you press ▲ (Up) on the remote control while [TV menu] is displayed.
 -  (Guide): Display the programme guide
 - Change the displayed channel list
- If you configured a TV box in the initial setup, you can press the TV button to display the channel list of the TV box.

TV box control compatible models have [TV box setup] in [Settings] — [Channels & Inputs] — [External inputs].

[28] Watching TV programmes | Watching TV programmes

Using interactive broadcast TV services

To display text information

You can view text and text-based graphical information, including national news, weather information, and TV schedules. You can browse for information that interests you, and then select what information you want to display by entering a number.

- 1 **Press the MENU button to display the [Control menu], and select [Colour buttons/Data broadcasting] — [Text] from the menu to display text information.**

About the Digital Text Information Service

The digital text service offers rich content with smooth graphics and images. Various features are available, such as page links and easy-to-use navigation. The service is supported by numerous broadcasters. (The availability of this feature depends on your model/region/country.)

About the Digital Interactive Application Service

The interactive application service offers high-quality digital text and graphics, along with advanced options. The service is supported by broadcasters. (The availability of this feature depends on your model/region/country.)

Note

- The interactive service is only available if provided by the broadcaster.
- Available functions and screen content varies depending on the broadcaster.
- If subtitles are selected and you launch a digital text application, subtitles may, under certain circumstances, stop being displayed. When you exit the digital text application, subtitle display will resume automatically.

[29] Watching TV

Useful features when watching TV

Timers

Use a timer to turn the TV on and off.

For details, refer to [Timers & Clock](#).

Parental lock

Use [Parental controls] to set parental restrictions.

For details, refer to [System](#).

(Subtitle setting)

You can press the MENU button on the remote control to enable subtitles.

Picture quality/sound quality adjustment

Adjust the picture quality and sound quality according to your preferences.

For details, refer to [Display & Sound](#).

[30] Watching TV

Adjusting the picture/screen/sound quality to your preferences

[Adjusting the picture quality](#)

[Adjusting the screen](#)

[Adjusting the sound quality](#)

[Advanced auto volume](#)

[Balance](#)

[Adjusting the picture/sound quality automatically](#)

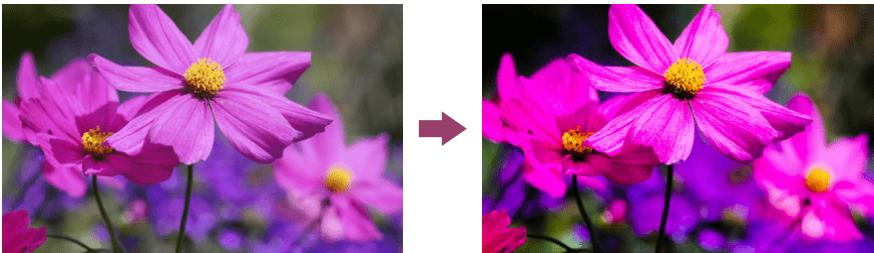
[31] Adjusting the picture/screen/sound quality to your preferences | Adjusting the picture/screen/sound quality to your preferences


Adjusting the picture quality

You can configure various settings related to the TV display such as colour and brightness for picture quality, or screen size.

Note

- The actual display may vary or some settings may not be available depending on your model/country/region and the content you are watching.



Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Picture & Sound] — the desired option.

You can change the following settings.

You can set the picture quality according to the [Content type].

For details, refer to [Selecting the Content type based on the current content](#).

Picture

Adjust the picture settings such as Brightness, Colour, and Hue.

Basic

You can set the following.

Picture mode

Change the picture quality according to the content you are watching such as movies.

Reset picture settings for ***

Reset the picture settings for the current picture mode to the factory default.

*** calibrated mode

Adjusts the picture to a quality close to that intended by the content creator when watching supported video streaming content and supported apps.

Brightness

Adjust the backlight to display the brightest whites and deepest blacks.

Colour

Adjust the colour saturation level and Hue.

Advanced colour adjustment (***)

You can set the following.

Adv. colour temperature: Basic

Finely adjust the colour temperature for each colour.

Adv. colour temperature: Multi point (***)p

Setting for use professional calibrator. When adjusting, we recommend using a colour analyser.

Per colour adjustment

Adjust Hue, Saturation, and Lightness for each colour.

Clarity

Adjust the picture clarity and reduce roughness.

Motion

You can set the following.

Motionflow

Refines moving images. Increases the number of image frames to display videos smoothly. If you select [Custom], you can adjust [Smoothness (Camera)], [Smoothness (Film)] and [Clearness].

Film mode

Optimises picture quality based on video content, such as movies and computer graphics. Smoothly reproduces the motion of filmed images (images recorded at 24 frames per second) such as movies.

Motion blur reduction

Adjustment is similar to that of [Clearness] in [Motionflow].

Note

- When [Content type] is set to [Game], [Motion blur reduction] is enabled, and [Motionflow] and [Film mode] are disabled.
-

Video signal

You can set the following.

Colour space

Change the colour reproduction range.

HDR mode

Picture that is suitable for a High Dynamic Range signal.

Hint

- Detailed information on input signals for broadcasts and external inputs can be displayed.

Press the MENU button on the remote control while a broadcast or external input video is displayed, and select [Detailed signal info] from the menu that is displayed at the bottom of the screen.

Detailed information on the input signal (such as resolution, scanning method, and frequency) is displayed. The detailed information that is displayed depends on the input signal.

To close the display, press the ↶(BACK) button on the remote control.

Note

- Detailed information is only available for broadcasts and external inputs.
- Detailed information may not be displayed based on the settings.

[32] Adjusting the picture/screen/sound quality to your preferences | Adjusting the picture/screen/sound quality to your preferences

Adjusting the screen

You can adjust the horizontal to vertical ratio of the screen and the display area.

- 1 While a broadcast or HDMI input image is displayed, press the MENU button on the remote control.**
- 2 Set from the menu displayed at the bottom of the screen.**
You can change the following main settings.

Wide mode

You can change the screen size to fit the video.

You can watch in the optimal screen mode.

Display area

You can change the display area.

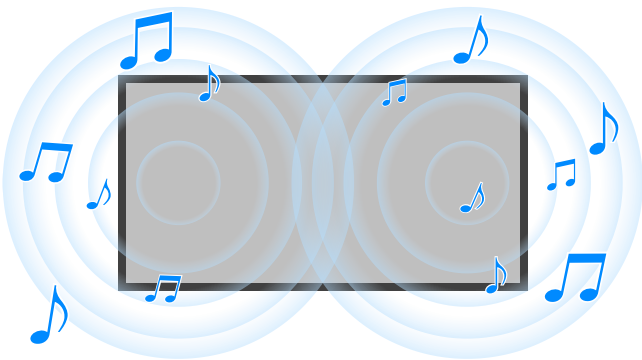
[33] Adjusting the picture/screen/sound quality to your preferences | Adjusting the picture/screen/sound quality to your preferences


Adjusting the sound quality

You can configure various settings related to the TV's sound such as sound quality and sound mode.

Note

- The actual display may vary or some settings may not be available depending on your model/country/region, TV settings, and the connected device.



Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Picture & Sound] — the desired option.

You can change the following settings.

Sound (***)

Adjust audio from the TV speakers, audio output to an audio system connected via HDMI or optical audio output, or audio output to wired headphones or Bluetooth-connected devices.

Sound settings

You can change the following settings.

Surround

Virtually reproduce realistic surround sound.

Surround effect

Adjust the surround sound effect.

Voice Zoom

Emphasise voice.

Displayed when [Post-processing] is set to [Standard].

Dialogue enhancer

Enhance voices when [Post-processing] is set to [Dolby Audio processing].

Equaliser

Adjust sound based on different frequencies.

Reset

Return all sound settings to factory default.

3D surround

Sound is output only from the Neckband Speaker/Headphones.

Displayed only when a Bluetooth device is connected.

Volume settings

You can change the following settings.

Balance

Adjust the speaker balance.

For details, refer to [Balance](#).

Advanced auto volume

Keeps the volume level consistent for all programmes and inputs.

For details, refer to [Advanced auto volume](#).

Dolby AC-4 Dialogue level

Adjusts dynamic range of Dolby AC 4 signal.

Dynamic range settings

You can change the following settings.

Dynamic range

Compensates for audio level difference between input sources (for Dolby Digital audio and HE AAC audio).

Displayed only when [Inputs] is HDMI or during [Media Player] playback.

DTS Dynamic range

Adjusts dynamic range of DTS signal.

General

You can change the following settings.

Post-processing

Select [Standard] (Sony) or audio processed by Dolby technology.

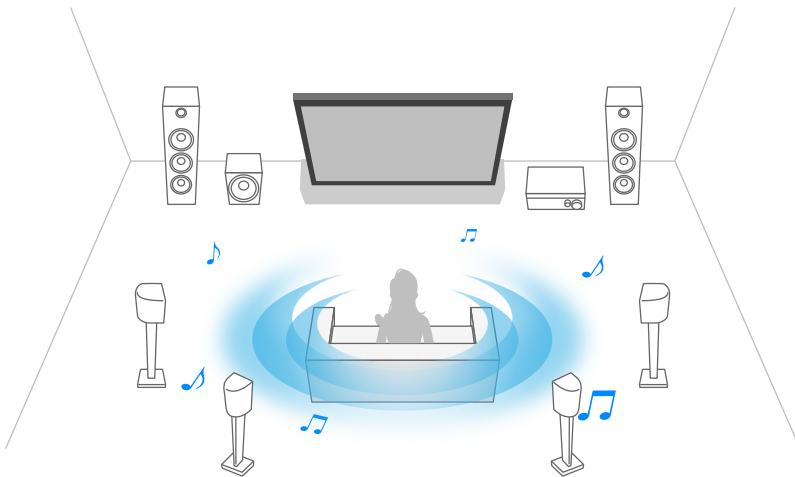
Adjust only for ***


When [On], the picture and sound quality is adjusted for the currently selected video input or app. When [Off], the picture and sound quality is adjusted for all inputs and apps.

Prioritise HDMI signal information

Automatically sets the content type based on the Content Type information in the HDMI signal. If it does not set automatically, set this [Off].

Audio output



Configure to output sound from headphones or an audio system instead of the TV speakers. Press the  (Quick Settings) button on the remote control, then select the following settings. [Settings] — [Display & Sound] — [Audio output] the desired setting.

You can configure settings such as those below.

Speakers

Select TV or external speakers.

Bluetooth/Headphones

Select the wired headphones or Bluetooth device connected to the TV for audio output.

Audio system settings

Sets output to devices connected via HDMI or optical audio out.

Acoustic Center Sync

Use the TV speakers as the centre speaker of the home theatre system.

For details, refer to [Using the TV as a centre speaker](#).

Audio system prioritisation

When enabled, this automatically switches the audio output to a BRAVIA Sync-compatible audio system when the TV is turned on.

A/V sync

Adjusts output timing to reduce delay between video and audio when using certain audio systems connected via HDMI.

Digital audio output

Configure the output method when outputting digital audio. This setting is available only when [Speakers] is set to [Audio system].

Hint

- There is less deterioration and noise from signal transmission, and the sound quality is superior compared to analogue connections.
-

eARC setting

If [Auto] is selected, high quality audio is output when an eARC supported device is connected to an HDMI port labelled “eARC/ARC”.

eARC is an enhanced version of ARC and stands for Enhanced Audio Return Channel. By connecting an eARC supported device, you can enjoy uncompressed, high-quality audio formats and newer surround audio formats in addition to the audio formats supported by ARC. For audio formats supported by eARC, refer to [Pass-through audio formats supported with eARC](#).

To connect the TV and an eARC supported device, use an eARC-supporting HDMI cable*. To connect an eARC supported device, refer to [Connecting an audio system](#).

* An authorised Premium High Speed HDMI™ Cable(s) is recommended.

Optical digital audio output volume

Applied for PCM only. The volume levels between PCM and compressed audio will differ.

Bluetooth device settings

Settings for devices connected via Bluetooth.

A/V sync

When using a Bluetooth audio device (A2DP supported), the output timing is adjusted to minimise the delay between video and audio.

Bluetooth device settings

Enables/disables Bluetooth.


For details, refer to [Remotes and accessories](#).

Related topics

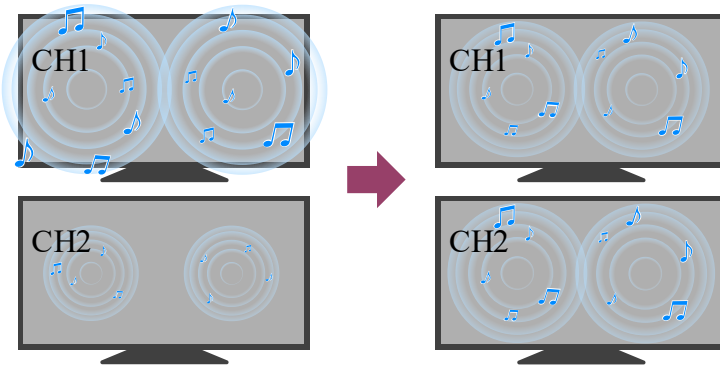
- [Accessing audio system settings](#)

Advanced auto volume

If [Speakers] is set to [TV speakers], the volume can be automatically adjusted to a certain level according to changes in the volume level of broadcasts and input signals.

Reducing the volume difference that occurs when switching channels or inputs allows you to watch at a constant volume level. To enable this feature, press the  (Quick Settings) button on the remote control, then select the following settings.

[Settings] — [Display & Sound] — [Picture & Sound] — [Sound (***)] — [Advanced auto volume]




Note

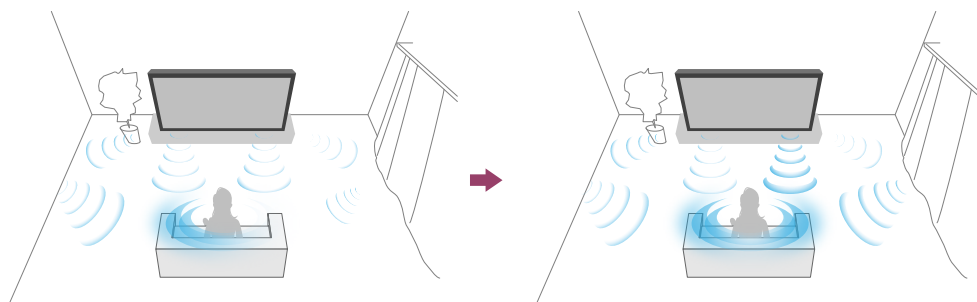
- The effect varies depending on your model/country/region, settings, broadcast, and input signal.

[35] Adjusting the picture/screen/sound quality to your preferences | Adjusting the picture/screen/sound quality to your preferences

Balance

If [Speakers] is set to [TV speakers], the balance of the left and right sound can be adjusted. Due to the distance to walls and windows and the reflection of sound, you may hear the left and right sound become unbalanced. To adjust the sound balance, press the  (Quick Settings) button on the remote control, then select the following settings.

[Settings] — [Display & Sound] — [Picture & Sound] — [Sound (***)] — [Balance]



Note

- The effect varies depending on your model/country/region, settings, and installation environment.

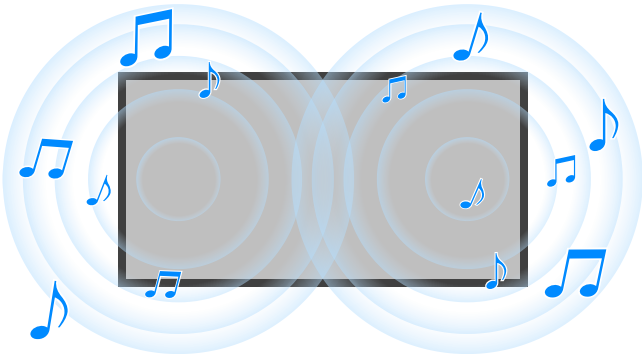
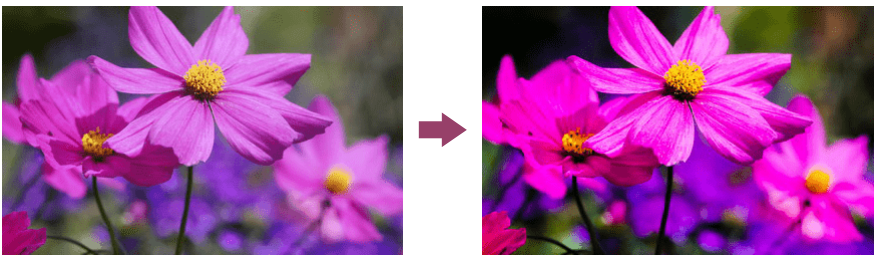
[36] Adjusting the picture/screen/sound quality to your preferences | Adjusting the picture/screen/sound quality to your preferences


Adjusting the picture/sound quality automatically

The picture and sound quality can be automatically adjusted according to the TV's installation environment.

Note

- Depending on the model, what you are watching, the TV settings, and connected devices, the actual screen may differ or some settings may not be available.



Press the  (Quick Settings) button on the remote control, then select the following settings.

[Settings] — [Display & Sound] — [Ambient Optimisation Pro]

You can change the following settings.

Auto adjust according to sensors

You can set the following.

Auto adjust according to ambient light

Optimises picture brightness automatically by sensing the luminance of ambient light.

Auto adjust according to viewing position

Optimises picture and sound according to the viewing position detected by the camera.

Auto adjust according to installation environment

You can set the following.

Acoustic auto calibration

Adjust audio output based on your viewing environment.

For details, refer to [Performing acoustic auto calibration](#).

[37]

Using the TV with Other Devices

[USB devices](#)

[Blu-ray and DVD players](#)

[TV box](#)

[Displaying the iPhone/smartphone or iPad/tablet app screen on the TV](#)

[Computers, cameras, and camcorders](#)

[Audio system \(such as an AV receiver or sound bar\)](#)

[Video game consoles](#)

[Experiencing 3D surround with a neckband speaker or headphones \(BRAVIA XR models only\)](#)

[Bluetooth devices](#)

[Adjusting the AV sync setting](#)

[BRAVIA Sync-compatible devices](#)

[Viewing pictures in 4K from compatible devices](#)

[BRAVIA Connectivity Guide](#)

[38] Using the TV with Other Devices

USB devices

[Playing content stored on a USB device](#)

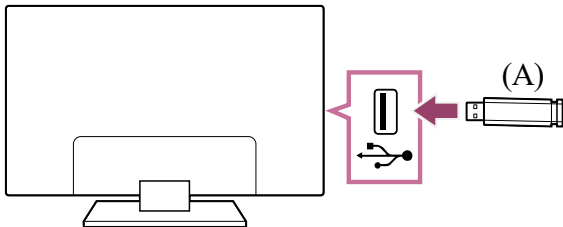
[Information about USB devices used for storing photos and music](#)

[Supported files and formats](#)

Playing content stored on a USB device

Connecting a USB device


Connect a USB storage device to the USB port of the TV to enjoy photo, music, and video files stored on the device.



(A) USB storage device

Enjoy photos/music/movies stored on a USB device

You can enjoy photos/music/movies stored on a USB device on the TV screen.

- 1 If the USB device connected to the TV has a power switch, turn it on.
- 2 Press the  (HOME) button, and select [Apps] from the Home menu, then select [Media Player].
- 3 Select the USB device name.
- 4 Select the folder, and select the file to play.

To check the supported file formats

- [Supported files and formats](#)

Note

- Some photo images or folders take time to display depending on the image dimension, file size, and number of files in a folder.
- Displaying the USB device may take some time because the TV accesses the USB device every time the USB device is connected.
- All USB ports on the TV support Hi-Speed USB. The blue USB port supports SuperSpeed (USB 3.2 Gen 1, USB 3.1 Gen 1 or USB 3.0). USB hubs are not supported.

- While accessing the USB device, do not turn off the TV or USB device, do not disconnect the USB cable, and do not remove or insert recording media. Otherwise, data stored on the USB device may be corrupted.
- Depending on the file, playback may not be possible, even when using the supported formats.
- To enjoy photos, you may need to update the TV's software.

Hint

- For other information, see “Frequently Asked Questions” on the Sony Support Site.
[Frequently Asked Questions for Troubleshooting](#)

Related topics

- [Information about USB devices used for storing photos and music](#)
- [No picture from a connected device.](#)

[40] USB devices | USB devices

Information about USB devices used for storing photos and music

- The USB ports on the TV support FAT16, FAT32, exFAT, and NTFS file systems.
- When connecting a Sony digital still camera to the TV with a USB cable, USB connection settings on your camera need to be set to “Auto” or “Mass Storage” mode.
- If your digital still camera does not work with your TV, try the following:
 - Set the USB connection settings on your camera to “Mass Storage”.
 - Copy the files from the camera to a USB flash drive, then connect the drive to the TV.
- Some photos and movies may be magnified, resulting in low picture quality. Depending on the size and aspect ratio, images may not be displayed in full screen.
- It may take a while to display a photo, depending on the file and/or settings.
- In no event shall Sony be liable for recording failure or any damage or loss of recorded contents caused or associated with the TV’s malfunction, the USB device’s malfunction, or any other problem.

Related topics

- [Supported files and formats](#)
-

Supported files and formats

[Photos](#)

[Music](#)

[Videos](#)

[Audio sampling rates \(for videos\)](#)

[External subtitles](#)

Photos

To enjoy photos, you may need to update the TV's software.

Use case : USB / Home Network

File Format	Extension
JPEG	*.jpg / *.jpe / *.jpeg
HEIF	*.heic / *.heif / *.hif
ARW ^{*1}	*.arw

^{*1} ARW is only to be used for playing back files.

Other supported files and formats

- [Music](#)
 - [Videos](#)
 - [Audio sampling rates \(for videos\)](#)
 - [External subtitles](#)
-

Music

Use case : USB / Home Network

mp4

Extension: *.mp4 / *.m4a

Description	Sampling Rate
AAC-LC	16k / 22.05k / 24k / 32k / 44.1k / 48k
HE-AAC v1 / v2	24k / 32k / 44.1k / 48k

3gpp

Extension: *.3gp / *.3g2

Description	Sampling Rate
AAC-LC	16k / 22.05k / 24k / 32k / 44.1k / 48k
HE-AAC v1 / v2	24k / 32k / 44.1k / 48k

Asf

Extension: *.wma

Description	Sampling Rate
WMA9 Standard	8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48k

ogg

Extension: *.ogg

Description	Sampling Rate
Vorbis	8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48k

Other

Description	Sampling Rate
LPCM ^{*1}	32k / 44.1k / 48k

Extension: *.mp3

Description	Sampling Rate
MP1L1 / MP1L2 / MP1L3 / MP2L1 / MP2L2	32k / 44.1k / 48k
MP2L3	16k / 22.05k / 24k
MP2.5L3	8k / 11.025k / 12k

Extension: *.wav

Description	Sampling Rate
WAV ^{*2}	32k / 44.1k / 48k / 88.2k / 96k / 176.4k / 192k

Extension: *.flac

Description	Sampling Rate
FLAC	16k / 22.05k / 32k / 44.1k / 48k / 88.2k / 96k / 176.4k / 192k

Extension: *.aac

Description	Sampling Rate
AAC-LC	16k / 22.05k / 24k / 32k / 44.1k / 48k
HE-AAC v1 / v2	24k / 32k / 44.1k / 48k

*1 The use case of LPCM is Home Network only.

*2 The use case of WAV is 2ch only.

Other supported files and formats

- [Photos](#)
- [Videos](#)
- [Audio sampling rates \(for videos\)](#)
- [External subtitles](#)

Use case : USB / Home Network

MPEG1 (*.mpg / *.mpe / *.mpeg)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
MPEG1	MPEG1L2	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps

MPEG2PS (*.mpg / *.mpe / *.mpeg)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
MPEG2 MP@HL, MP@H14L, MP@ML	MPEG1L1 / MPEG1L2 / LPCM / AC3	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps

MPEG2TS

Extension : *.m2t

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
MPEG2 MP@HL, MP@H14L, MP@ML	MPEG1L1 / MPEG1L2 / AAC- LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps

Extension : *.m2ts / *.mts

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
AVC / H.264 BP@L3, MP@L4.2, HP@L4.2	MPEG1L1 / MPEG1L2 / AAC- LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3	1920x1080 / QCIF (176x144)	1920x1080@60fps

MP4 (*.mp4)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
AVC / H.264 BP@L3, MP@L4.2, HP@L4.2	AAC-LC / HE- AAC v1 / HE- AAC v2 / AC3 / E-AC3 / AC4 / MPEG1L1 / MPEG1L2	1920x1080 / QCIF (176x144)	1920x1080@120fps
MPEG4 SP@L6, ASP@L5, ACEP@L4	AAC-LC / HE- AAC v1 / HE- AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps
AVC / H.264 BP@L5.2, MP@L5.2, HP@L5.2 *1	AAC-LC / HE- AAC v1 / HE- AAC v2 / AC3 / E-AC3 / AC4 / LPCM	3840x2160 / QCIF (176x144)	3840x2160@60p / 1920x1080@120fps
HEVC / H.265 MP@L5.1, Main10@L5.1	AAC-LC / HE- AAC v1 / HE- AAC v2 / AC3 / AC4 / E-AC3	3840x2160 / QCIF (176x144)	3840x2160@60p / 1920x1080@120fps

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
HEVC / H.265 MP@L6, MP10@L6	LPCM	3840x2160	3840x2160@120fps (XAVC v2) / 3840x2160@60fps
AVC BL@L6, HP@L6, HP10@L6	AAC-LC / HE- AAC v1 / HE- AAC v2 / AC3 / AC4 / E-AC3	3840x2160 / 3840x2160	3840x2160@120fps (XAVC v2) / 3840x2160@60fps
HEVC / H.265 MP@L6, MP10@L6	AAC-LC / HE- AAC v1 / HE- AAC v2 / AC3 / AC4 / E-AC3	3840x2160 / 3840x2160	3840x2160@60fps

*1 This line includes the XAVC S format use case. The maximum supported bitrate for XAVC S is 100 Mbps.

avi (*.avi)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
Motion JPEG	μ-LAW / PCM (U8) / PCM (S16LE)	1280x720 / QCIF (176x144)	1280x720@30fps

Asf (*.asf / *.wmv)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
VC1 AP@L3, MP@HL, SP@ML	WMA9 Standard	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps

MKV (*.mkv)

Subtitle Type : Internal / External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
AVC / H.264 BP@L3, MP@L4.2, HP@L4.2	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis	1920x1080 / QCIF (176x144)	1920x1080@60fps
MPEG4 SP@L6, ASP@L5, ACEP@L4	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps
VP8	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps
VP9 Profile 0, Profile 2	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis	3840x2160 / QCIF (176x144)	3840x2160@60fps

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
AVC / H.264 BP@L5.2, MP@L5.2, HP@L5.2	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2	3840x2160 / QCIF (176x144)	3840x2160@60p / 1920x1080@120fps
HEVC / H.265 MP@L5.1, Main10@L5.1	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2	3840x2160 / QCIF (176x144)	3840x2160@60p / 1920x1080@120fps
AVC BL@L6, HP@L6, HP10@L6	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2	3840x2160 / 3840x2160	3840x2160@60fps
HEVC / H.265 MP@L6, MP10@L6	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2	3840x2160 / 3840x2160	3840x2160@60fps

3gpp (*.3gp / *.3g2)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
MPEG4 SP@L6, ASP@L5, ACEP@L4	AAC-LC / HE- AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps
AVC / H.264 BP@L3, MP@L4.2, HP@L4.2	AAC-LC / HE- AAC v1 / HE-AAC v2 / AC3 / E-AC3 /	1920x1080 / QCIF (176x144)	1920x1080@60fps

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
	MPEG1L1 / MPEG1L2		

MOV (*.mov)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
AVC / H.264 BP@L3, MP@L4.2, HP@L4.2	AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM (S16LE)	1920x1080 / QCIF (176x144)	1920x1080@60fps
MPEG4 SP@L6, ASP@L5, ACEP@L4	AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM (S16LE)	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps
Motion JPEG	AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM (S16LE)	1280x720 / QCIF (176x144)	1280x720@30fps

WebM (*.webm)

Subtitle Type : External

Video Codec (Profile@Level)	Audio Codec	Max. / Min. Resolution	Max. Frame Rate
VP8	Vorbis	1920x1080 / QCIF (176x144)	1920x1080@30fps / 1280x720@60fps
VP9 Profile 0, Profile 2	Vorbis	3840x2160 / QCIF (176x144)	3840x2160@60fps

Other supported files and formats

- [Photos](#)
- [Music](#)
- [Audio sampling rates \(for videos\)](#)
- [External subtitles](#)

[45] Supported files and formats | Supported files and formats | Supported files and formats

Audio sampling rates (for videos)

Audio Codec	Sampling Rate
LPCM	44.1k / 48k
MPEG1L1 / MPEG1L2	32k / 44.1k / 48k
MPEG1L3	32k / 44.1k / 48k
AAC-LC	16k / 22.05k / 24k / 32k / 44.1k / 48k
HE-AAC v1 / v2	24k / 32k / 44.1k / 48k
AC3	32k / 44.1k / 48k
AC4	44.1k / 48k
E-AC3	32k / 44.1k / 48k
Vorbis	8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48k

Audio Codec	Sampling Rate
WMA9	8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48k
DTS core	44.1k / 48k
μ-LAW	8k
PCM (U8)	8k
PCM (S16LE)	11.025k / 16k / 44.1k
PCM (S16BE)	11.025k / 16k / 44.1k

Other supported files and formats

- [Photos](#)
- [Music](#)
- [Videos](#)
- [External subtitles](#)

[46] Supported files and formats | Supported files and formats | Supported files and formats

External subtitles

Use case : USB

File Format	Extension
SubStation Alpha	*.ass / *.ssa
SubRip	*.srt

Other supported files and formats

- [Photos](#)
- [Music](#)
- [Videos](#)
- [Audio sampling rates \(for videos\)](#)

[47] Using the TV with Other Devices

Blu-ray and DVD players

[Connecting a Blu-ray or DVD player](#)

[Watching Blu-ray and DVD discs](#)

[48] Blu-ray and DVD players | Blu-ray and DVD players

Connecting a Blu-ray or DVD player

Connect a Blu-ray/DVD player to the TV.

Use a connection method below based on the terminals available on your TV.

Note

- The available terminals depend your model/region/country.

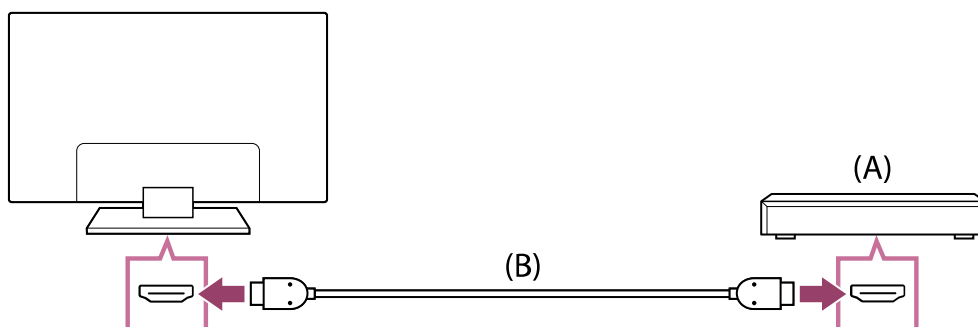
Hint

- You can also connect a TV box in the same way as a Blu-ray/DVD player.

HDMI connection

For optimum picture quality, we recommend connecting your player to the TV using an HDMI cable. If your Blu-ray/DVD player has an HDMI jack (socket), connect it using an HDMI cable. To connect an audio amp or sound bar at the same time, refer to HDMI connection (eARC supported) in [Connecting an audio system](#).

To adjust the video and audio output timing, refer to [Adjusting the AV sync setting](#).



(A) Blu-ray/DVD player (same as connecting a TV box)

(B) HDMI cable (not supplied)*

* Be sure to use an authorised Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.


Related topics

- [Watching Blu-ray and DVD discs](#)

[49] Blu-ray and DVD players | Blu-ray and DVD players

Watching Blu-ray and DVD discs

You can watch content from Blu-ray/DVD discs or other content supported by your player on the TV.

- 1 **Turn on the connected Blu-ray/DVD player.**
- 2 **Press the  (Input select) button repeatedly to select the connected Blu-ray/DVD player.**
- 3 **Start playback on the connected Blu-ray/DVD player.**

Hint

- If you connect a BRAVIA Sync-compatible device with an HDMI connection, you can operate it by simply using the TV's remote control. Also, if you press MENU on the remote control while watching content from the HDMI input, select [*** controls], you can operate the BRAVIA Sync-connected device from the TV screen.

Related topics

- [Connecting a Blu-ray or DVD player](#)
- [BRAVIA Sync-compatible devices](#)

[50] Using the TV with Other Devices

TV box

[Connecting a TV box](#)

[How to control the TV box using the TV remote control](#)

[51] TV box | TV box

Connecting a TV box

Connect the TV box to the TV.

Connect it to the input on your TV.


For details, refer to the [Connecting a Blu-ray or DVD player](#) page.

[52] TV box | TV box

How to control the TV box using the TV remote control

TV box control compatible models have [TV box setup] in [Settings] — [Channels & Inputs] — [External inputs].

Performing [TV box control setup] in [TV box setup] allows you to control a TV box using the TV's remote control.

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [External inputs] — [TV box setup] — [TV box control setup].
- 2 Follow the on-screen instructions.

Note

- When operating the TV's remote control, point it at the TV box.
- Depending on the external devices, some buttons may not respond.
- If you press and hold a button on the remote control, the operation may not work. Instead, try pressing the button repeatedly.
- The availability of this function depends on your model/region/country.

Related topics


- [An external device \(such as a TV box\) cannot be controlled using the TV's remote control. \(TV box control compatible models only\)](#)

[53] Using the TV with Other Devices

Displaying the iPhone/smartphone or iPad/tablet app screen on the TV

Chromecast built-in™ or AirPlay allows you to display (cast) your favourite websites and app screens on your mobile device directly to the TV.

Using Chromecast built-in

- 1 Connect a mobile device such as a smartphone or tablet to the same home network that the TV is connected to.**
- 2 Launch a Chromecast built-in supported app on the mobile device.**
- 3 Select the  (cast) icon in the app.**
- 4 Select the TV as the cast destination.**





The screen of the mobile device is displayed on the TV.

Note

- Google TV setup and an Internet connection are required to use Chromecast built-in.



Using AirPlay

This TV supports AirPlay 2.

- 1 Make sure your Apple device is connected to the same network as your TV.**
- 2 The procedure depends on the content that will be displayed on the TV as follows.**
 - To display video, tap  (AirPlay Video).
 - To display photos, tap  (Action share).
 - To play music, tap  (AirPlay Audio).
 - To display the screen of a mobile device, tap  (Mirroring).
(In some apps, you may have to tap another icon first.)
- 3 Select AirPlay on a mobile device such as an iPhone or iPad, and select the TV to use with AirPlay.**

Hint

- The TV supports Apple HomeKit.

You can control the TV with a mobile device such as an iPhone or iPad by pressing the  (Input select) button on the remote control, selecting  (AirPlay), and following the

on-screen instructions to setup Apple HomeKit.

Available operations vary depending on the version of the app and software.

- If you select [On (Powered on by apps)] in [Remote start], you can turn on the TV with apps on a mobile device such as an iPhone or iPad.

Note

- Google TV setup and an Internet connection are required to use AirPlay.
- Operation of a mobile device such as iPhone or iPad varies depending on the OS version.

Related topics

- [Connecting to a network using a LAN cable](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)

[54] Using the TV with Other Devices

Computers, cameras, and camcorders

[Connecting a computer and viewing stored content](#)

[Connecting a camera or camcorder and viewing stored content](#)

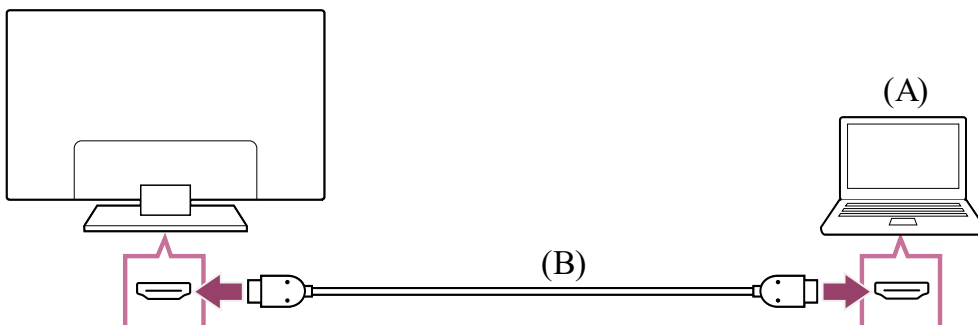
[Computer video signal specifications](#)

[55] Computers, cameras, and camcorders | Computers, cameras, and camcorders

Connecting a computer and viewing stored content

To connect a computer

Use an HDMI cable to connect your computer to the TV.



(A) Computer


(B) HDMI cable (not supplied)*

* Be sure to use an authorised Premium High Speed HDMI™ Cable(s) bearing the HDMI logo. We recommend an Ultra High Speed HDMI™ Cable when connecting to a computer that supports 4K 120Hz.

To check the video signal specifications

- [Computer video signal specifications](#)

To view content stored on a computer

After connecting the computer, press the  (Input select) button, then select the input the computer is connected to.

To check the supported file formats

- [Supported files and formats](#)

Note

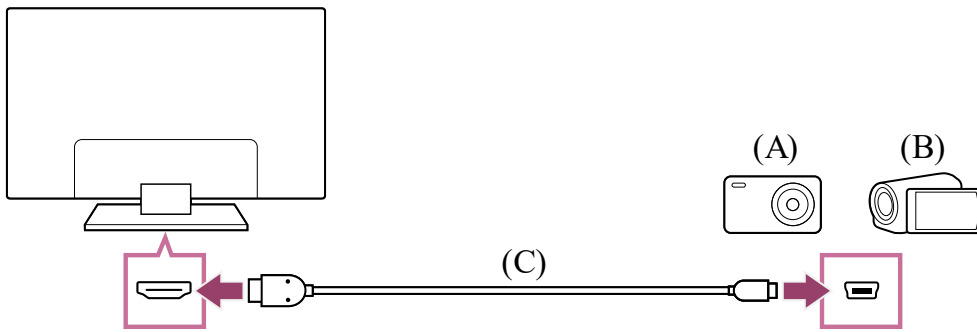
- For optimum picture quality, we recommend that you set your computer to output video signals according to one of the timings listed in “Computer video signal specifications”.
- Depending on the connection status, the image may be blurred or smeared. In this case, change the computer’s settings and select another input signal from the “Computer video signal specifications” list.

[56] Computers, cameras, and camcorders | Computers, cameras, and camcorders

Connecting a camera or camcorder and viewing stored content

To connect a camera or camcorder

Connect your Sony digital still camera or camcorder using an HDMI cable. Use a cable that has an HDMI mini jack (socket) for the digital still camera/camcorder end, and a standard HDMI jack (socket) for the TV end.




(A) Digital still camera

(B) Camcorder

(C) HDMI cable (not supplied)*

* Be sure to use an authorised Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.

To view content stored on a digital still camera/camcorder

- 1 After connecting the digital still camera/camcorder, turn it on.
- 2 Press the  (Input select) button repeatedly to select the connected digital still camera/camcorder.
- 3 Start playback on the connected digital still camera/camcorder.

To check the supported file formats

- [Supported files and formats](#)

Hint

- If you connect a BRAVIA Sync-compatible device, you can operate it by simply using the TV's remote control. Make sure that the device is BRAVIA Sync-compatible. Some devices may not be compatible with BRAVIA Sync even though they have an HDMI jack (socket).

Related topics

- [BRAVIA Sync-compatible devices](#)

(Resolution, Horizontal frequency/Vertical frequency)

- 640 x 480, 31.5 kHz/60 Hz
- 800 x 600, 37.9 kHz/60 Hz
- 1024 x 768, 48.4 kHz/60 Hz
- 1152 x 864, 67.5 kHz/75 Hz
- 1280 x 1024, 64.0 kHz/60 Hz
- 1600 x 900, 56.0 kHz/60 Hz
- 1680 x 1050, 65.3 kHz/60 Hz
- 1920 x 1080, 67.5 kHz/60 Hz
- 3840 x 2160, 67.5 kHz/30 Hz
- 3840 x 2160, 135.0 kHz/60 Hz (8 bits)

Hint

- If your computer outputs 3840 x 2160p, 120Hz, you can use it as a video input signal.

Note

- The picture may be blurry and may not be displayed correctly depending on your connection status. In this case, change the computer's settings and select a different input signal in "Computer video signal specifications".

[58] Using the TV with Other Devices

Audio system (such as an AV receiver or sound bar)

[Outputting audio from an audio system](#)

[Connecting an audio system](#)

[Adjusting an audio system](#)

[Using the TV as a centre speaker](#)

[Pass-through audio formats supported with eARC](#)

[Accessing audio system settings](#)

[59] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

Outputting audio from an audio system

You can connect audio systems such as AV receivers or sound bars to the TV. Select a connection method below according to the specifications of the audio system you want to connect.

- Connecting with an HDMI cable (For details, carefully read “Connection using an HDMI cable” below.)
- Connecting with a digital optical cable

For connection methods, refer to the [Connecting an audio system](#) page.

Note

- Refer to the instruction manual of the device to be connected.

Connection using an HDMI cable

This TV supports Audio Return Channel (ARC) or Enhanced Audio Return Channel (eARC). You can use an HDMI cable to output audio from audio systems that support ARC and eARC.

On TVs that support eARC, you can output (pass-through) audio signals from external input devices connected to the TV to eARC supported audio systems by using the HDMI terminal bearing the text “eARC/ARC”.

For connection methods, refer to the [Connecting an audio system](#) page.

Note

- The location of the HDMI terminal that supports eARC/ARC varies depending on the model. Refer to the included Setup Guide.

Related topics

- [Pass-through audio formats supported with eARC](#)

[60] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

Connecting an audio system

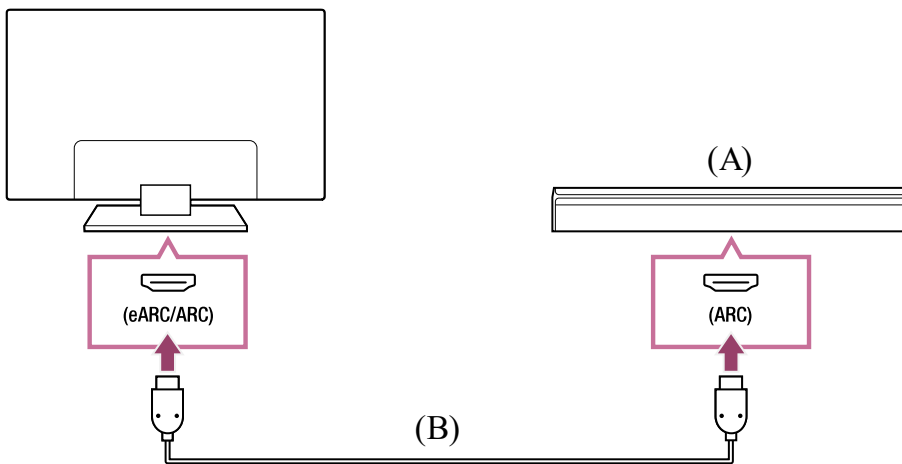
See the illustrations below to connect an audio system such as an AV receiver or sound bar.

Note

- The available terminals depend your model/region/country.

Sound bar connection

We recommend connecting the TV's HDMI input terminal (eARC or ARC) to the sound bar's HDMI output terminal (eARC or ARC) with an HDMI cable.



(A) Sound bar

(B) HDMI cable (not supplied)*

* We recommend an authorised Premium High Speed HDMI™ Cable(s).

To connect a sound bar via HDMI, see “HDMI connection”.

If you connect the TV to a sound bar via HDMI, you can use the following features.

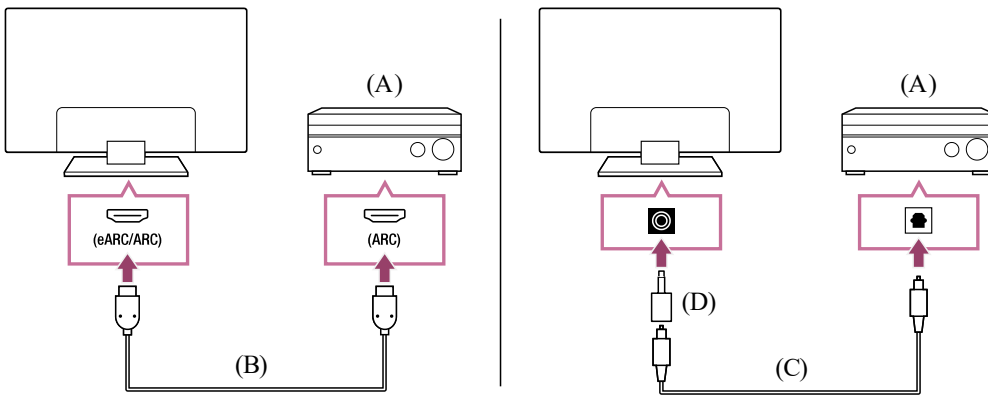
- Link the power state of the sound bar and TV
- Display and configure the sound bar settings on the TV

Note

- The available functions depend on the sound bar.
- Depending on the sound bar, “eARC” or “ARC” may not be indicated on the HDMI terminal. For details on how to connect, refer to the sound bar manual.

Audio amp connection

We recommend connecting the TV's HDMI input terminal (eARC or ARC) to the sound bar's HDMI output terminal (eARC or ARC) via HDMI. Depending on your audio system, you can also connect with a digital optical cable.



(A) Audio amp

(B) HDMI cable (not supplied)*

(C) Digital optical cable (not supplied)

(D) Digital audio connector adapter (supplied)

* We recommend an authorised Premium High Speed HDMI™ Cable(s).

To connect an audio amp via HDMI, see “HDMI connection”. To connect an audio amp with a digital optical cable, see “Digital optical cable connection”.

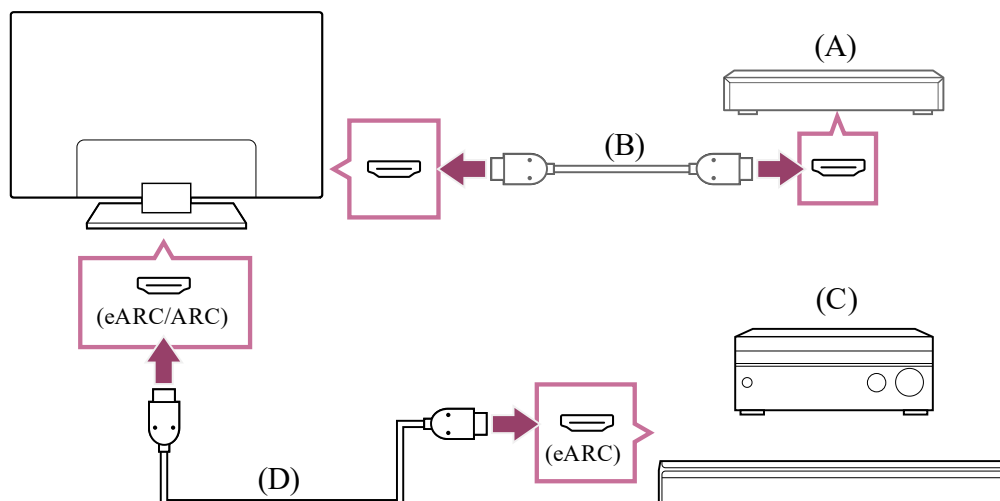
Note

- ALWAYS keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

HDMI connection (eARC supported)

- 1 **Connect the external input device and TV with an HDMI cable. Connect the TV and audio system with another HDMI cable.**

Connect the audio system to the TV's HDMI input terminal bearing the text “ARC” or “eARC/ARC”.



(A) External input device (such as a Blu-ray/DVD recorder)

(B) HDMI cable (not supplied)

- (C) AV receiver or sound bar
- (D) HDMI cable with Ethernet (not supplied)*

* We recommend authorised Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.

- 2 Press the **⚡ (Quick Settings)** button on the remote control, then select **[Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [eARC setting] — [Auto]**.
- 3 Select **[Audio output] — [Speakers] — [Audio system]**.
- 4 **Enable the audio system's eARC feature.**
Refer to the instruction manual of the device.
- 5 **Adjusting an audio system**

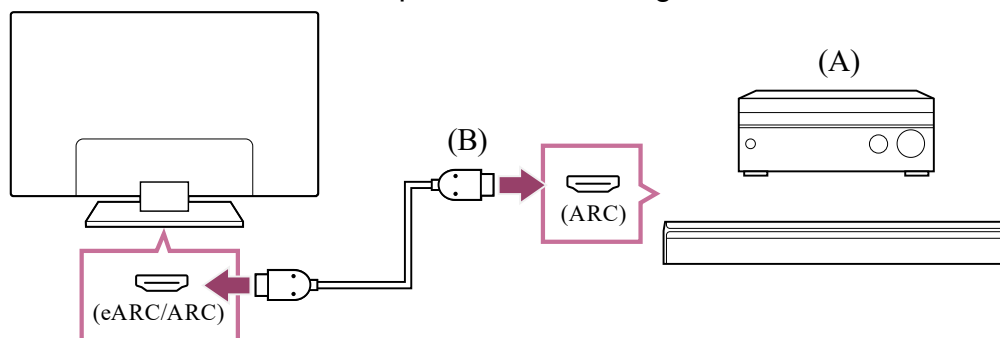
Note

- You cannot select [eARC setting] if the text-to-speech function for on-screen text within the TV's accessibility features is enabled.
- If audio is being output from an eARC supported device while you are watching HDMI input, the TV operates as follows:
 - audio from system sounds and audio responses is not output, and
 - the voice recognition performance of the built-in MIC may degrade (only TVs with a built-in MIC).

HDMI connection (ARC supported)

- 1 **Connect the TV and audio system with an HDMI cable.**

Connect to the TV's HDMI input terminal bearing the text "ARC" or "eARC/ARC".



- (A) AV receiver or sound bar
- (B) HDMI cable (not supplied)*

* We recommend authorised Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.

2 Adjusting an audio system

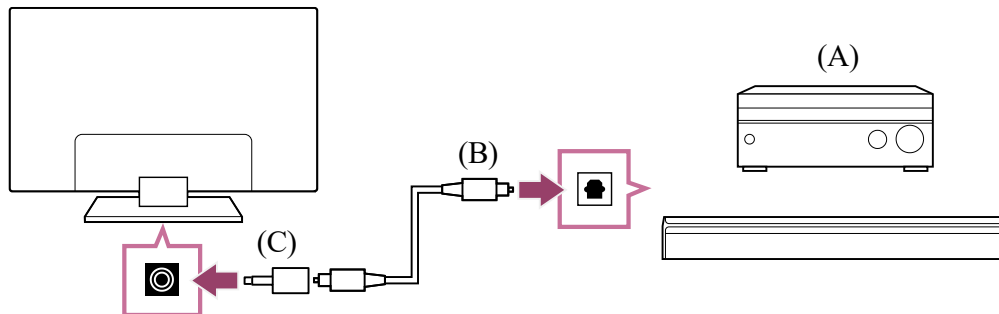
Note

- For ARC connections, voice recognition performance may degrade (only TVs with a built-in MIC).

Digital optical cable connection

1 **Connect the TV and audio system with a digital optical cable.**

Connect to the audio system's digital optical input terminal.



- (A) AV receiver or Sound bar
(B) Optical audio cable (not supplied)
(C) Digital audio connector adapter (supplied)

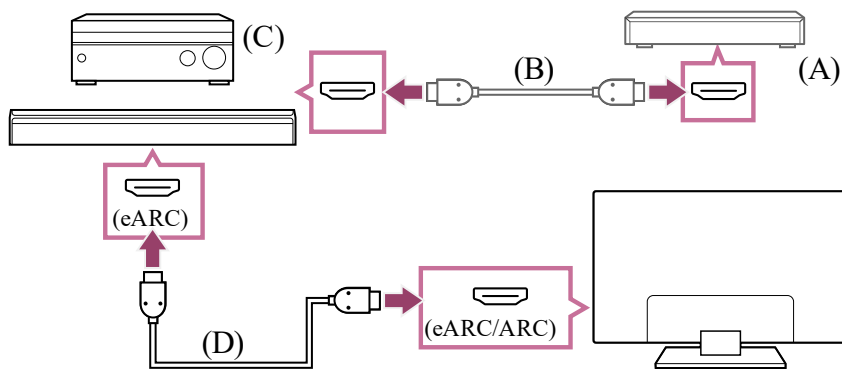
2 Adjusting an audio system

Hint

HDMI connection centred on an audio system (eARC supported)

You can make connections centred on an audio system as follows.

For the TV settings, refer to HDMI connection (eARC supported). For the audio system settings, refer to the manual of your device.



- (A) External input device (such as a Blu-ray/DVD recorder)
- (B) HDMI cable (not supplied)
- (C) AV receiver or sound bar
- (D) HDMI cable with Ethernet (not supplied)*

* We recommend authorised Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.

Note

- ALWAYS keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

Related topics


- [No sound but good picture.](#)
- [No audio or low audio with a home theatre system.](#)

[61] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

Adjusting an audio system

After connecting an audio system to the TV, adjust the TV's audio output from the audio system.


Adjusting an audio system connected with an HDMI cable or digital optical cable

- 1 After connecting the TV to your audio system, press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system].

2 Turn on the connected audio system, then adjust the volume.

If you connect a BRAVIA Sync-compatible device with an HDMI connection, you can operate it by simply using the TV's remote control.

Note

- You need to configure the [Digital audio output] settings according to your audio system. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [Digital audio output].
- If the audio system is not compatible with Dolby Digital or DTS, set [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [Digital audio output] to [PCM].
- The [Digital audio output] settings are disabled when using audio signals that are passed through from the HDMI input and using eARC.

Hint

- If a specific audio system is connected with an HDMI cable, you can adjust the output timing of the picture and sound.
 - [Adjusting the AV sync setting](#)

Related topics

- [BRAVIA Sync-compatible devices](#)
- [Connecting an audio system](#)
- [No sound but good picture.](#)
- [No audio or low audio with a home theatre system.](#)

[62] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

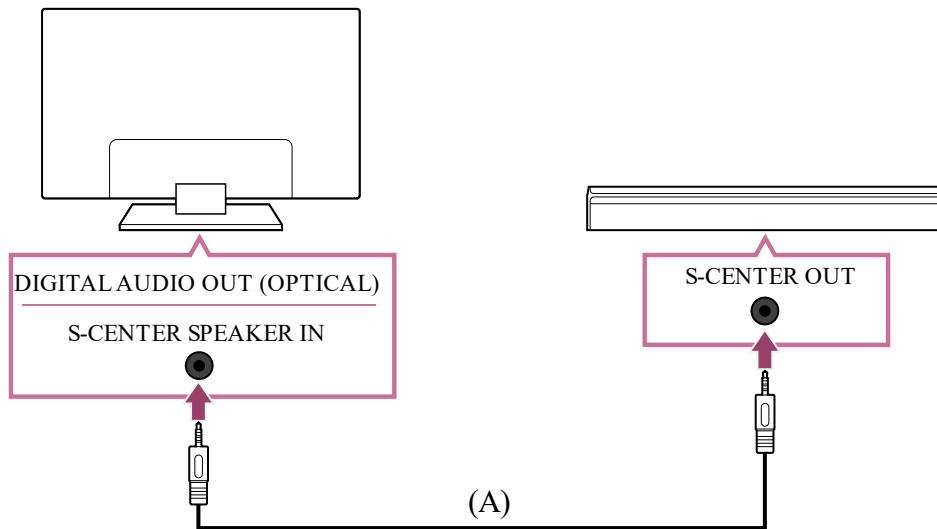
Using the TV as a centre speaker

You can use the TV as a centre speaker by connecting a device such as a sound bar with an S-CENTER OUT terminal to the TV's S-CENTER SPEAKER IN terminal. Conversations sound natural because you can hear them from the screen and its vicinity.

Hint

- For Acoustic Center Sync supported audio systems with a S-CENTER OUT terminal, refer to the following.
https://www.sony.net/hav_faq
- Models with a CENTER SPEAKER IN terminal can also be used as a centre speaker by connecting the audio amp with a speaker cable.

1 Connect the TV and Acoustic Center Sync supported sound bar with the TV centre speaker mode cable that was supplied with the supported device.

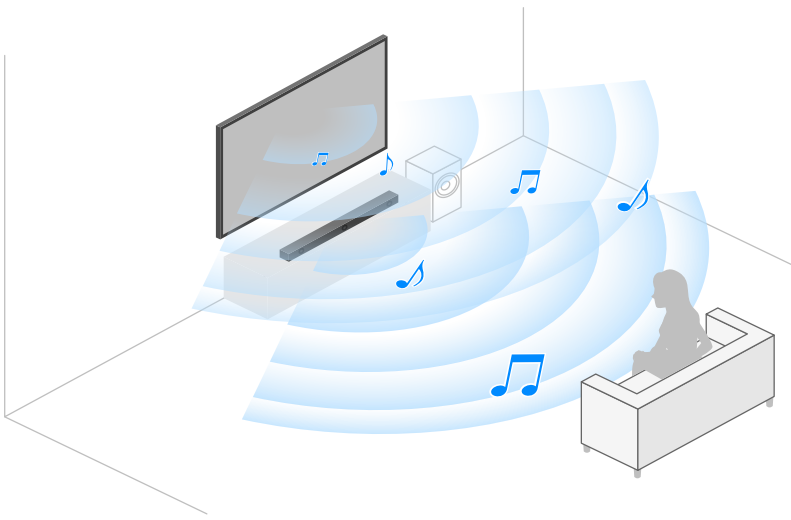


(A) TV centre speaker mode cable (supplied with devices such as sound bars that have S-CENTER OUT terminals)

Note

- Even when connecting a sound bar with an S-CENTER OUT terminal, it must be connected to the TV with an HDMI cable like a normal sound bar.
- Also refer to the instruction manual of the audio system with an S-CENTER OUT terminal.
- S-CENTER SPEAKER IN and DIGITAL AUDIO OUT (OPTICAL) share the same terminal. Optical audio output is not available when using S-CENTER SPEAKER IN.

2 Press the  (Quick Settings) button on the remote control, change — [Speakers] to [Audio system].

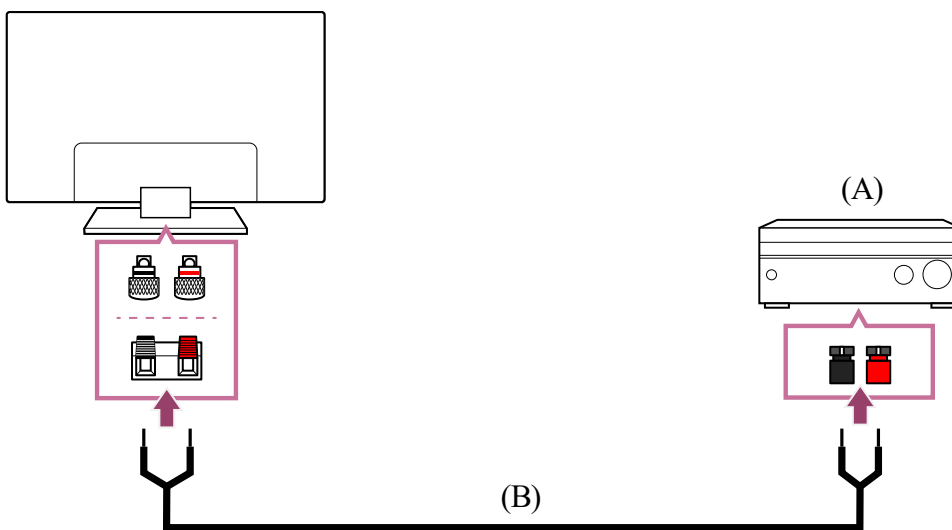


Note

- If centre audio is not output from the TV, enable [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [Acoustic Center Sync].

Connecting an AV receiver with a speaker cable (only models with a CENTER SPEAKER IN terminal)

Connect the TV and AV receiver with a speaker cable.



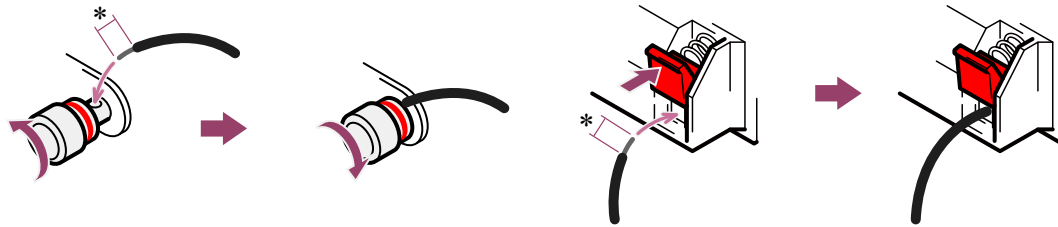
(A) AV receiver

(B) Speaker cable (not supplied)

Use a speaker cable (not supplied) to connect the AV receiver to the CENTER SPEAKER IN terminal of the TV.

When connecting, make sure to twist the ends of the speaker cable and insert them into the connection terminals of the TV and AV receiver.

The CENTER SPEAKER IN terminal varies depending on the model. Refer to the figures below when connecting the speaker cable.



*Strip about 10 mm (13/32 inches) of insulation from the speaker cable at each end.

Note

- To prevent the wires of the speaker cable from touching each other, make sure not to strip too much of the speaker cable.
- Connect the speaker cable properly so that the polarities (+/-) between the TV and AV receiver match.

Related topics

- [Connecting an audio system](#)

[63] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

Pass-through audio formats supported with eARC

Confirm that you can pass-through the following audio formats.

- 7.1 channel linear PCM: 32/44.1/48/88.2/96/176.4/192 kHz
- Dolby Digital
- Dolby Digital Plus
- DTS
- Dolby TrueHD
- DTS-HD MA
- DTS:X Master Audio

For details, refer to the support page.

- [Support Site](#)

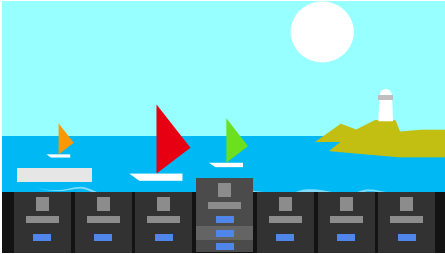
Related topics


- [Connecting an audio system](#)
-

[64] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

Accessing audio system settings

You can access the audio system (such as an AV amplifier or sound bar) settings such as audio quality from the TV's Quick Settings.



- 1 **Connect the audio system via the HDMI (eARC/ARC) terminal.**
- 2 **Press the  (Quick Settings) button on the remote control, and select an audio system setting.**

For details about audio system settings, please refer to your audio system's manual.

Note

- Audio system settings are displayed only for supported models.
For information about supported models, refer to the support site.
https://www.sony.net/hav_faq
- The settings that are displayed depend on the audio system model.

Hint

- For settings that are not displayed by default, select settings to add from  (Edit).

Related topics

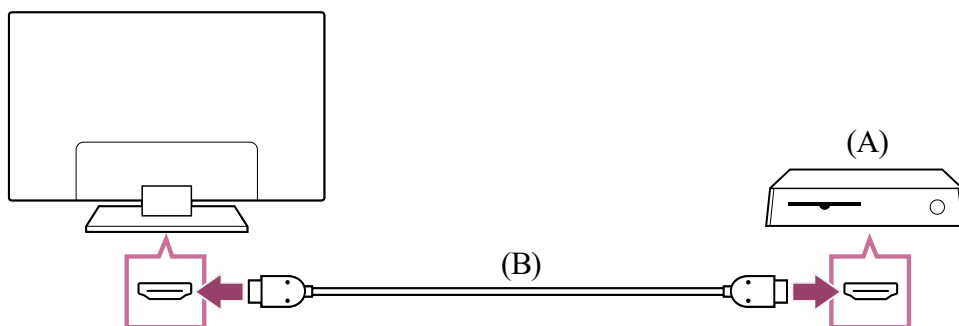
- [Connecting an audio system](#)

[65] Using the TV with Other Devices

Video game consoles

Connecting

Connect an HDMI-supported video game console to your TV with an HDMI cable.
To connect an audio amp or sound bar at the same time, refer to HDMI connection (eARC supported) in [Connecting an audio system](#).



(A) Video game console

(B) HDMI cable (sold separately)

Hint

- A Premium High Speed HDMI™ Cable(s) is fine for general purposes, but if you want to connect a video game console that supports 4K 120Hz, use the HDMI cable included with the game console, or an Ultra High Speed HDMI™ Cable.
- The type and position of the HDMI port differs depending on your TV. Refer to the documentation provided with the TV.

Changing HDMI input settings

After connecting, set the connected HDMI input port.

To maximise the performance of your TV and video game console, set the [HDMI signal format/VRR].

Auto setup

- 1 **With the video game console turned on, connect it to the TV with an HDMI cable.**

Set by following the instructions on the TV screen.

Manual setup

- 1 **Press the  (Quick Settings) button on the remote control, and select the following in order.**

[Settings] — [Channels & Inputs] — [External inputs] — [HDMI signal format/VRR]

Select the optimal format for your video game console.

Hint

- If you connect a video game console that supports 4K 120 Hz video output, set to [Enhanced format (4K120)].
- If you connect a video game console that supports VRR, enable [VRR].

Note

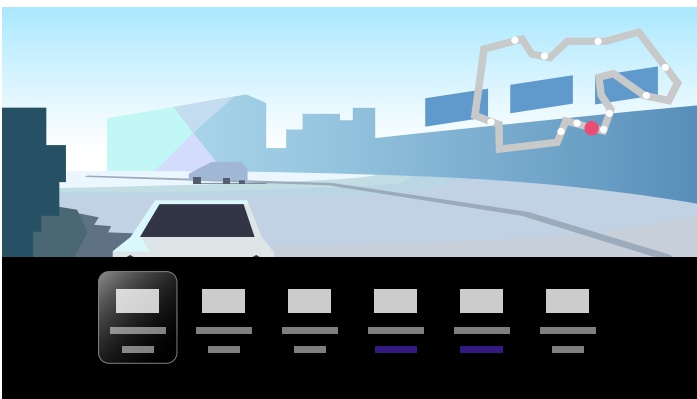
- When connecting a video game console that supports 4K 120Hz and VRR, check the label of the HDMI input ports on the TV and connect to the HDMI input port that is labelled 4K 120Hz or 4K 120Hz 8K, or connect to the HDMI input port that is displayed as [VRR] for [HDMI signal format].

The available [HDMI signal format] depends on the model. Some HDMI formats may also not be supported depending on the model/region/country.

- If [VRR] is enabled, slight brightness fluctuations (flicker) may occur on the TV screen depending on the frequency of the content output from the connected video game console.
- To use the VRR feature, you may need to update the TV's software.

Game Menu

Pressing the MENU button displays a special menu for video games at the bottom of the screen.



Hint

- Depending on the connected video game console, the [Content type] may automatically change to [Game]. If [Game] is not selected automatically, set it manually.

Note

- The available options may vary.
- Unsupported options are greyed out (not available).

Related topics

- [Connecting terminal](#)

[66] Using the TV with Other Devices

Experiencing 3D surround with a neckband speaker or headphones (BRAVIA XR models only)

You can use a neckband speaker or Sony brand headphones to experience 3D surround (spatial sound).

For details, refer to the URL below.

<https://www.sony.net/bravia-xr-3ds2>

[67] Using the TV with Other Devices

Bluetooth devices


[Connecting a Bluetooth device](#)

[Supported Bluetooth profiles](#)

[68] Bluetooth devices | Bluetooth devices

Connecting a Bluetooth device

To pair the TV with a Bluetooth device

- 1 Turn the Bluetooth device on and put it in pairing mode.
To put your Bluetooth device in pairing mode, refer to the instruction manual of the device.
- 2 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Remotes and accessories] — [Pair accessory] to put the TV in pairing mode.
Available Bluetooth devices will be displayed.


- 3 Select the desired device, then follow the on-screen instructions.
If you are prompted to enter a passcode, refer to the instruction manual of the device.

After pairing is completed, the device connects to the TV.

Hint

- You can pair some models of Sony headphones to experience realistic 3D surround sound. For details, visit the following URL.
<https://www.sony.net/bravia-xr-3ds2>

To connect to a paired Bluetooth device

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Remotes and accessories].
- 2 Select a paired but unconnected device.
- 3 Select [Connect].

Note

- When a sound bar and the TV are connected through Bluetooth, connect the external input device such as a Blu-ray/DVD recorder to the TV.

Related topics

- [Supported Bluetooth profiles](#)
- [Operation cuts out, or a device does not work.](#)
- [You want to output sound from the headphones/Bluetooth audio device and audio system/TV speakers at the same time.](#)

[69] Bluetooth devices | Bluetooth devices

Supported Bluetooth profiles

The TV supports the following profiles:

- HID (Human Interface Device Profile)
- HOGP (HID over GATT Profile)

- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio/Video Remote Control Profile)
- SPP (Serial Port Profile)


Related topics

- [Connecting a Bluetooth device](#)


[70] Using the TV with Other Devices

Adjusting the AV sync setting

If a Bluetooth audio device is connected, there may be a delay between the picture and sound due to the properties of Bluetooth. You can adjust the delay between the picture and sound with the A/V sync setting.

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Bluetooth device settings] — [A/V sync] — the desired option.

If the audio device is connected with an HDMI cable, the sound may be delayed due to the properties of the audio device. In that case, you can adjust the video and audio output timing with the A/V sync setting.

- 1 Press the  (Quick Settings) button on the remote control, and then select the following in order.
[Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [A/V sync] — the desired setting

Note

- Depending on the connected Bluetooth audio device or connected HDMI device, the picture and sound may not match even when the [A/V sync] setting is set to [On] or [Auto].
- Even if the [A/V sync] setting is [Auto], the video and audio output timing cannot be adjusted when [Content type] is set to the following or when two screens are displayed. The [A/V sync] setting is fixed to [Off] and cannot be changed.
 - [Game]
 - [PC]
- Even if the [A/V sync] setting is set to [Auto], the video and audio output timing is not adjusted when [Content type] is set to [Video/Images] — [Picture mode] — [Photo].

- When a Bluetooth audio device is connected, the responsiveness of the TV while playing video games may feel slower due to the [A/V sync] setting adding a delay to the output timing of the picture. For games that are dependant on response time, we do not recommend you use a Bluetooth device and recommend that you use the TV speakers or a sound bar with a wired (HDMI cable/digital optical cable) connection instead.

[71] Using the TV with Other Devices

BRAVIA Sync-compatible devices

[BRAVIA Sync overview](#)

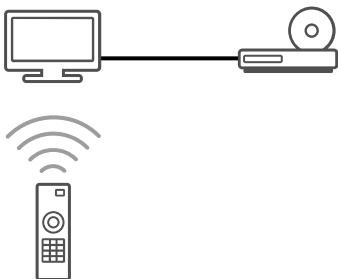
[Using features available for BRAVIA Sync-compatible devices](#)

[Adjusting BRAVIA Sync settings](#)

[72] BRAVIA Sync-compatible devices | BRAVIA Sync-compatible devices

BRAVIA Sync overview

If a BRAVIA Sync-compatible device (e.g., Blu-ray player, AV receiver) is connected with an HDMI cable, you can operate the device with the TV's remote control.




Related topics

- [Using features available for BRAVIA Sync-compatible devices](#)
- [Adjusting BRAVIA Sync settings](#)

[73] BRAVIA Sync-compatible devices | BRAVIA Sync-compatible devices



Using features available for BRAVIA Sync-compatible devices

To operate BRAVIA Sync-compatible devices from the TV, use the  (Input select) button on the remote control to select the device you want to operate.

Blu-ray/DVD player

- Automatically turns the TV on and switches the input to the connected Blu-ray/DVD player when the Blu-ray/DVD player starts to play.
- Automatically turns the connected Blu-ray/DVD player off when you turn the TV off.
- Allows operations such as menu operation and playback with the ▲ (Up) / ▼ (Down) / ◀ (Left) / ▶ (Right) buttons on the TV remote control.

AV receiver

- Automatically turns the connected AV receiver on and switches the sound output from the TV speaker to the audio system when you turn the TV on. This function is only available if you have previously used the AV receiver to output the TV's sound.
- Automatically switches the sound output to the AV receiver by turning the AV receiver on when the TV is turned on.
- Automatically turns the connected AV receiver off when you turn the TV off.
- Adjusts the volume ( (Volume) +/- buttons) and mutes the sound ( (Mute) button) of the connected AV receiver through the TV's remote control.

Video camera

- Automatically turns the TV on and switches the input to the connected video camera when the camera is turned on.
- Automatically turns the connected video camera off when you turn the TV off.
- Allows operations such as menu operation and playback with the ▲ (Up) / ▼ (Down) / ◀ (Left) / ▶ (Right) buttons on the TV remote control.


Related topics

- [BRAVIA Sync overview](#)
- [Adjusting BRAVIA Sync settings](#)

[74] BRAVIA Sync-compatible devices | BRAVIA Sync-compatible devices

Adjusting BRAVIA Sync settings

When BRAVIA Sync is set up, you will be able to turn off a connected device with the TV or set a device connected via HDMI cable to be operated with the TV's remote control.

- 1 Turn on the connected device.
- 2 To enable [BRAVIA Sync control], press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [External inputs] — [BRAVIA Sync settings] — [BRAVIA Sync control].
- 3 Activate BRAVIA Sync on the connected device.
When a specific Sony BRAVIA Sync-compatible device is connected and powered on and [BRAVIA Sync control] is enabled, BRAVIA Sync is automatically activated on that device. For details, refer to the instruction manual of the connected device.

Available options

Available options are shown below. (Options vary depending on your model/region/country.)

[Auto devices off]

If disabled, the connected device does not turn off automatically when the TV is turned off.

[Auto TV on]

If disabled, the TV does not turn on automatically when the connected device is turned on.

[BRAVIA Sync device list]

Displays the BRAVIA Sync device list.

Related topics

- [BRAVIA Sync overview](#)
- [Using features available for BRAVIA Sync-compatible devices](#)

[75] Using the TV with Other Devices

Viewing pictures in 4K from compatible devices

[Viewing pictures in 4K resolution](#)

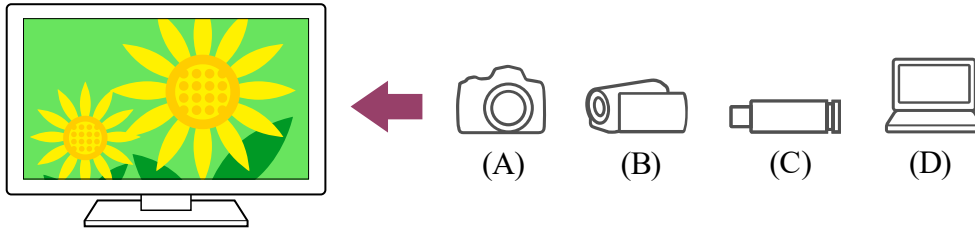
[Settings for viewing pictures through HDMI input with higher quality](#)

[76] Viewing pictures in 4K from compatible devices | Viewing pictures in 4K from compatible devices

Viewing pictures in 4K resolution

You can connect a digital still camera/camcorder that supports HDMI 4K output to HDMI IN of the TV to display high resolution photos stored on the camera. You can also display high resolution photos stored in connected USB devices or your home network. A picture with a 4K or higher resolution can be displayed in 4K resolution (3840×2160).

The availability of this function depends on your region/country.




(A) Digital still camera

(B) Camcorder


(C) USB device

(D) Network device

To view pictures stored on a USB device or network device in 4K resolution

- 1 Connect the USB device or network device to the TV.
- 2 Press the  (HOME) button, and select Apps from the Home menu, then select [Media Player].
- 3 Select the USB device name or network device name.
- 4 Select the folder, and then select the file to play.

To view pictures stored on a digital still camera/camcorder

- 1 Connect a digital still camera or camcorder that supports HDMI output to the HDMI IN jack (socket) of the TV, using an HDMI cable.
- 2 Press the  (Input select) button repeatedly to select the connected device.
- 3 Set the connected device to 4K output.
- 4 Start playback on the connected device.

To check the supported file formats

- [Supported files and formats](#)

To view pictures in 4K resolution with higher quality

You can set the HDMI signal format to Enhanced format to view pictures in 4K resolution with higher quality.

For information about Enhanced format or changing the settings, refer to the [Settings for viewing pictures through HDMI input with higher quality](#) page.

Note

- A 3D picture cannot be displayed.
- If you change the picture by pressing the ◀ (Left) / ▶ (Right) buttons, it may take a moment for the picture to be displayed.

Related topics

- [Computers, cameras, and camcorders](#)
- [USB devices](#)
- [Connecting to a Network](#)


[77] Viewing pictures in 4K from compatible devices | Viewing pictures in 4K from compatible devices

Settings for viewing pictures through HDMI input with higher quality

To display a picture from a device connected to the HDMI input terminal in a higher quality HDMI format^{*1}, set [HDMI signal format/VRR] in [External inputs].

^{*1} Such as 8K, 4K 100/120 Hz, 4K 60p 4:2:0 10 bit, 4K 60p 4:4:4, or 4:2:2

HDMI signal format

To change the HDMI signal format setting, press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [External inputs] — [HDMI signal format/VRR] — the HDMI input you want to set.

Follow the on-screen instructions, and set the HDMI signal format for the HDMI input terminal to a suitable format below. Available HDMI signal formats depend on your model and the HDMI input.

- Standard format
- Enhanced format
- Enhanced format (4K120)

Note

- Support for the display of 4K 100/120 Hz and 8K picture depends on your model/region/country.
- Support for the Variable Refresh Rate (VRR) feature depends on your model.
- When using Enhanced format, picture and sound may not be output correctly. In this case, connect the device to an HDMI IN that is in [Standard format], or change the HDMI signal format of HDMI IN to [Standard format].
- Only set to Enhanced format when using compatible devices.
- When you watch 4K picture with High-Quality, use a Premium High Speed HDMI™ Cable(s) that supports speeds of 18 Gbps. For details on a Premium High Speed HDMI™ Cable(s) that supports 18 Gbps, refer to the cable specifications.
- To display 4K 100/120 Hz or 8K picture, an Ultra High Speed HDMI™ Cable that supports 48 Gbps is required. Refer to the cable specifications to find out whether a cable supports 48 Gbps.

Related topics

- [Viewing pictures in 4K resolution](#)

[78] Using the TV with Other Devices

BRAVIA Connectivity Guide

Descriptions about connecting devices to the TV are also available on the Sony support website. Refer to it as necessary.

- https://www.sony.net/tv_connectivity_guide/

[79]

Connecting to a Network

[Connecting to a network](#)

[Home network features](#)

[Viewing Internet content](#)

[80] Connecting to a Network

Connecting to a network

[Connecting to a network using a LAN cable](#)

[Connecting to a network using a wireless connection](#)

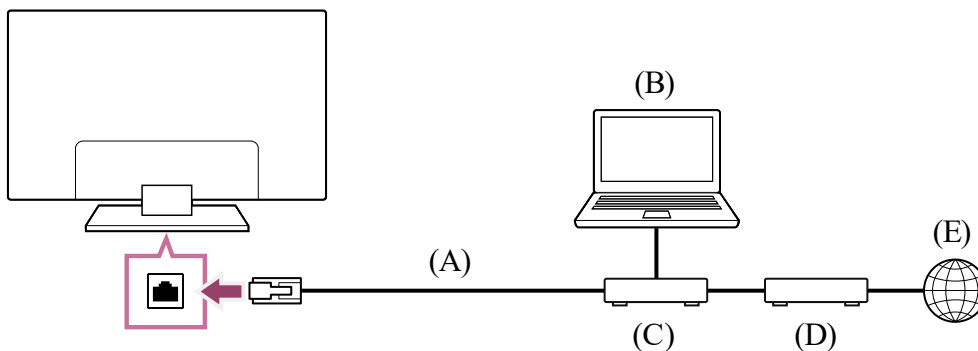
[81] Connecting to a network | Connecting to a network

Connecting to a network using a LAN cable

Connecting to a network using a LAN cable

A wired LAN connection allows you to access the Internet and your home network.

Make sure to connect to the Internet or home network via a router.



(A) LAN cable

(B) Computer

(C) Router

(D) Modem

(E) Internet

1 Set up your LAN router.

For details, refer to the instruction manual of your LAN router, or contact the person who set up the network (network administrator).

Note

- It is strongly recommended for security purposes to connect your TV to the Internet via a router/modem that includes router functionality. Direct connection of your TV to the Internet may expose your TV to a security threat such as extraction or tampering of content or personal information.

Contact your service provider or network administrator to confirm your network includes router functionality.

- The network-related settings that are required may vary depending on the Internet service provider or router. For details, refer to the instruction manuals provided by the Internet service provider or those supplied with the router. You can also contact the person who set up the network (network administrator).

Related topics

- [The TV cannot connect to the Internet/Network.](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)
- [Home network features](#)

[82] Connecting to a network | Connecting to a network

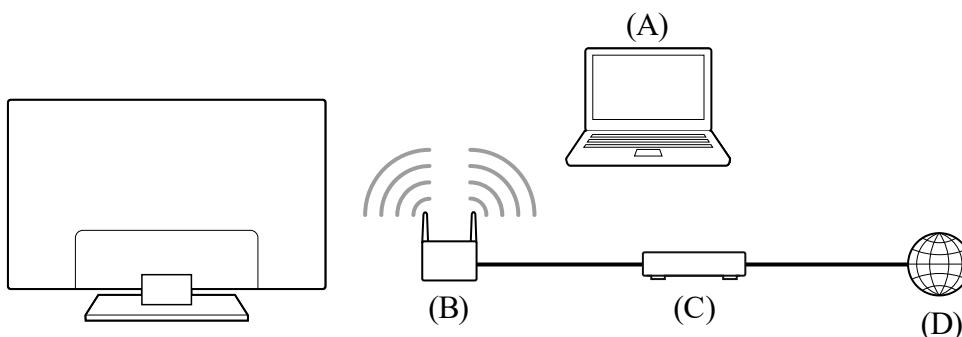
Connecting to a network using a wireless connection

[Using Wi-Fi to connect the TV to the Internet/Network](#)

[83] Connecting to a network using a wireless connection | Connecting to a network using a wireless connection | Connecting to a network using a wireless connection

Using Wi-Fi to connect the TV to the Internet/Network


The built-in wireless LAN device allows you to access the Internet and enjoy the benefits of networking in a cable-free environment.



- (A) Computer
- (B) Wireless router
- (C) Modem
- (D) Internet

1 Set up your wireless router.


For details, refer to the instruction manual of your wireless router, or contact the person who set up the network (network administrator).

2 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet].

3 Select a network you want to connect to and set the password.

If your TV can not connect to the Internet/Network, refer to [The TV cannot connect to the Internet/Network](#) page.

To turn off the built-in wireless LAN

1 To disable [Wi-Fi], press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet] — [Wi-Fi].

Hint

- For smooth video streaming:
 - Change the setting of your wireless router to a high-speed networking standard such as 802.11n, 802.11ac or 802.11ax if possible.
For details on how to change the setting, refer to the instruction manual of your wireless router, or contact the person who set up the network (network administrator).
 - If the above procedure does not deliver any improvement, change the setting of your wireless router to 5GHz, which may help improve the video streaming quality.
 - The 5GHz band may not be supported depending on your region/country. If the 5GHz band is not supported, the TV can only connect to a wireless router using the 2.4GHz band.

Note

- It is strongly recommended for security purposes to connect your TV to the Internet via a router/modem that includes router functionality. Direct connection of your TV to the Internet may expose your TV to a security threat such as extraction or tampering of content or personal information.
Contact your service provider or network administrator to confirm your network includes router functionality.
- The network-related settings that are required may vary depending on the Internet service provider or router. For details, refer to the instruction manuals provided by the Internet service provider or those supplied with the router. You can also contact the person who set up the network (network administrator).

- If you select the [Show password] option in the password entry screen, the exposed password may be seen by other individuals.

Related topics

- [Network \(Internet/home\)/apps](#)
- [The TV cannot connect to the Internet/Network.](#)
- [Connecting to a network using a LAN cable](#)
- [Home network features](#)

[84] Connecting to a Network

Home network features

[Adjusting home network settings](#)

[Playing content from a computer](#)

[Playing content from a media server](#)

[85] Home network features | Home network features

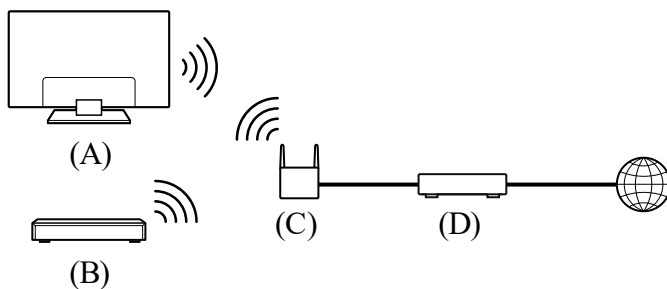
Adjusting home network settings

You can adjust the following home network settings.

To connect to a server

Connect the client device (TV) and the server device (BD/DVD recorder) to the same network.

To register the TV as a client device on the server, refer to the server device manual.




(A) TV

(B) BD/DVD recorder

(C) Wireless LAN router

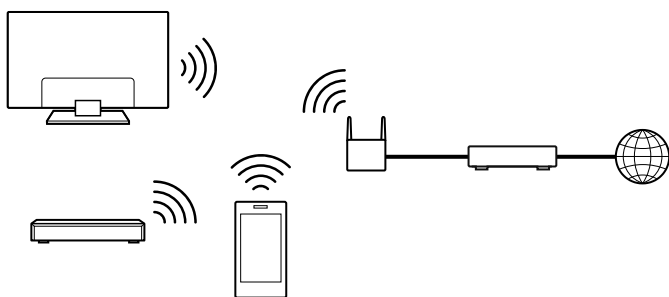
(D) Modem


To check the server connection

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet] — [Home network setup] — [Server diagnostics] — follow the on-screen instructions to perform diagnostics.

To use the renderer function

Connect the renderer device (TV), the server device (BD/DVD recorder), and the device that controls the server and renderer (smartphone) to the same network. You can use the smartphone to operate the TV within the same network.



Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet] — [Home network setup] — [Renderer] — the desired option.

[Renderer function]


Enable the renderer function.

You can play photo/music/video files in a controller (e.g., digital still camera) on the TV screen by operating the device directly.

[Renderer access control]

- Select [Automatic access permission] to access the TV automatically when a controller accesses the TV for the first time.
- Select [Custom settings] to change the access permission settings of each controller.

To use the remote device

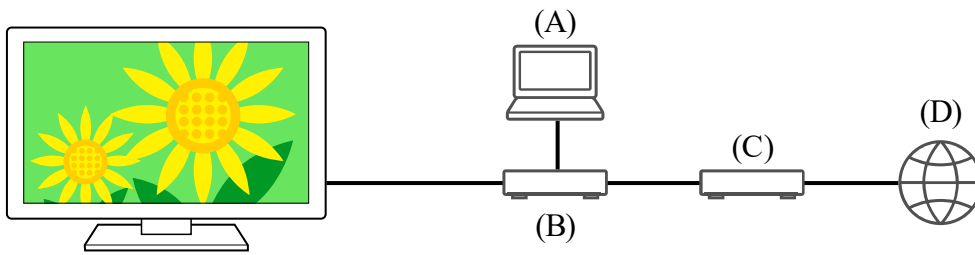
Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet] — [Remote device settings] — the desired option.

[Control remotely]

Enable operation of the TV from a registered device.

Playing content from a computer

You can enjoy content (photo/music/video files) stored on a network device located in another room, if you connect the TV to a home network via a router.




(A) Computer (Server)

(B) Router

(C) Modem

(D) Internet

- 1 **Connect the TV to your home network.**
- 2 **Press the  (HOME) button, and select Apps from the Home menu, then select [Media Player].**
- 3 **Select the network device name.**
- 4 **Select the folder, and then select the file to play.**

To check the supported file formats

- [Supported files and formats](#)

Note

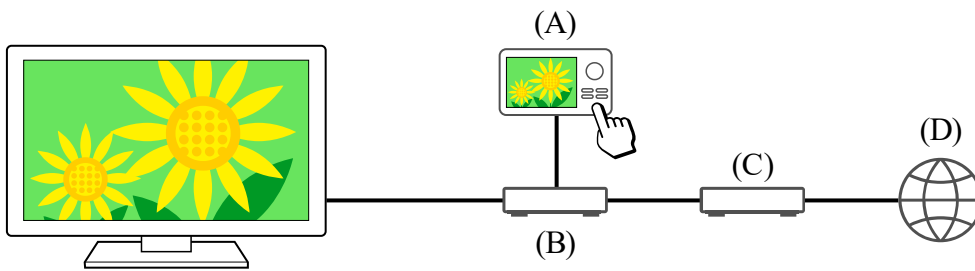
- Depending on the file, playback may not be possible even when using the supported formats.

Related topics

- [Adjusting home network settings](#)

Playing content from a media server

You can play photo/music/video files in a controller (e.g., digital still camera) on the TV screen by operating the controller directly, if you connect the TV to a home network via a router. The controller should also be renderer-compatible.



(A) Digital still camera (Controller)

(B) Router

(C) Modem

(D) Internet

- 1 **Connect the TV to your home network.**
- 2 **Operate the controller to start playing the content on the TV screen.**

Related topics

- [Adjusting home network settings](#)

[88] Connecting to a Network

Viewing Internet content

You can use video streaming services such as YouTube™ and Netflix to watch Internet content. The available services vary depending on your country and region. You can launch these services by selecting their apps in the Home Menu. If a Google Account is set on the TV, you can also select content that is displayed in the Home Menu.

Note

- An Internet connection is required to watch Internet content.
- Video streaming services such as Netflix and Amazon Prime are paid services.
- Supported video streaming services depend on the model/region/country, and some models/regions/countries do not support such services.

Hint

- Even if a Google Account is not setup on the TV, you can still see videos from, for example, YouTube displayed on the Home Menu, as long as the TV is connected to the Internet. To install new apps such as those for video streaming services, you must setup/add a Google Account on the TV.

Related topics

- [Installing apps](#)
- [Accounts and sign-in](#)
- [Enjoying safe apps and video streaming services \(Security and restrictions\)](#)
- [Connecting to a network using a LAN cable](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)
- [Home menu](#)

[89]

Settings

The menus displayed in the TV settings vary depending on your model/region/country.

[Using the Quick Settings](#)

[Using the Eco Dashboard](#)

[Channels & Inputs Channels and External inputs, etc.](#)

[Display & Sound Picture, Screen, Sound and Audio output, etc.](#)

[Network and Internet](#)

[Accounts and sign-in Configure the Google Account or add other accounts.](#)

[Privacy Configure detection of harmful apps.](#)

[Apps](#)

[System Date and time, Language, System sounds, Accessibility, Parental controls and LED indicator, etc.](#)


[Remotes and accessories Remote control and Bluetooth settings.](#)

[Help and feedback Provides help from Sony and Google.](#)

[Timers & Clock On timer, Sleep timer, Alarm, Clock display, etc.](#)

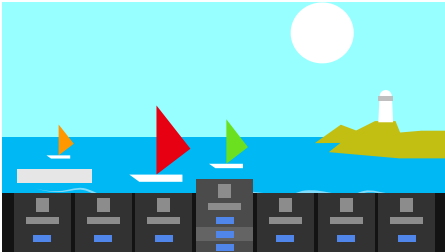
[90] Settings


Using the Quick Settings

If you press the  (Quick Settings) button on the remote control, you can quickly access features such as [Picture & Sound], [Content type], [Picture mode], [Sleep timer], and [Picture Off] on the current screen, and settings such as [Speakers] depending on the connected devices. You can also display [Settings] from [Quick Settings].



Note

- The menus displayed in the TV settings vary depending on your model/region/country.







- 1 Press the  (Quick Settings) button on the remote control.
- 2 Move the focus to change a setting or select it.

To change the settings that are displayed

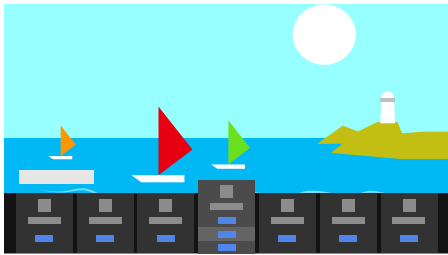
- 1 Press the  (Quick Settings) button on the remote control.
- 2 Move the focus left or right, and select  (Edit).
- 3 Select the desired setting.
- 4 Select [Close].

Hint

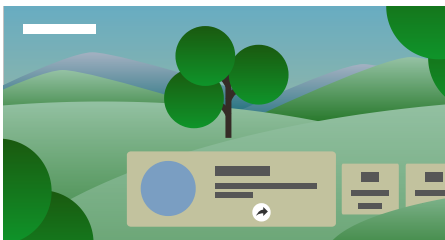
- To change the order or hide a displayed item, press and hold the  (Enter) button on the remote control with that item highlighted, and [Move] and [Hide] will be displayed. If you select [Move], use  (Left) /  (Right) on the remote control to move the item to the desired position, and then press the  (Enter) button on the remote control.
- With [BRAVIA notifications] in Quick Settings, you can check if there are notifications such as software updates and low battery levels in the remote control.

You can configure various settings to reduce power consumption, such as Power saving. You can also check descriptions for features while setting them.

- 1 Press the  (Quick Settings) button on the remote control, and select [Eco Dashboard].



- 2 In the displayed menu, move the focus left or right and select the desired setting.




Related topics

- [Using the Quick Settings](#)

[92] Settings

Channels & Inputs

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — the desired option.

Available options

[Channels]

Configures the settings related to receiving broadcast programming.

To tune digital channels

[Receiving digital broadcasts](#)

To sort channels or edit the channel list

[Preferences (Channels)]

Configures [Subtitle settings] and [Audio settings (Broadcast)].


[External inputs]

Configures the settings of the external inputs and BRAVIA Sync.

For details about BRAVIA Sync, refer to [BRAVIA Sync-compatible devices](#).

[93] Settings

Display & Sound

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — the desired option.

Available options

[Picture & Sound]

[Content type]

Configures [Content type] based on the content.

Adjust the picture and sound based on the Content type.

[Picture]

Configures display settings that adjust the picture quality, such as screen brightness.

To adjust the picture quality to your preferences, refer to the [Adjusting the picture quality](#) page.

[Sound (*)]**

Configures settings that adjust the sound.

To adjust the sound quality to your preferences, refer to the [Adjusting the sound quality](#) page.

[Audio output]

Configures selection settings related to speakers.

For details, refer to [Audio output] in [Adjusting the sound quality](#).

[Ambient Optimisation Pro]

Configures settings for [Auto adjust according to sensors] and [Auto adjust according to installation environment].

For details, refer to [Adjusting the picture/sound quality automatically](#).

[Expert panel settings](only models equipped with an OLED panel)

Use when setting [Pixel shift] or manually performing [Panel refresh].

For details, refer to [OLED panel \(only models equipped with an OLED panel\)](#).

[94] Settings

Network and Internet

Configures settings for such things as wireless LANs, wired LANs, and home networks.

Related topics

- [Connecting to a Network](#)

[95] Settings

Accounts and sign-in

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Accounts and sign-in] — the desired option.

Available options

When a Google Account is set on the TV

Configure the Google Account or add other accounts.

When a Google Account is not set on the TV

[Accounts and sign-in] cannot be used. To set a Google Account, set up Google TV from the settings menu.

[96] Settings

Privacy

Configure detection of harmful apps.

[97] Settings

Apps

Allows you to configure or uninstall apps, or clear the cache.

Related topics

- [Installing apps](#)

[98] Settings

System

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — the desired option.

Note

- Depending on the settings of the TV, some options may not be displayed or available.

Available options

[Accessibility]

Configures the settings of accessibility features and services for helping users navigate their devices more easily.

[About]

Displays information about the TV.
Here, you can reset your TV

[Date and time]

Configures the current time and auto clock display.

[Language]

Selects the menu language. The selected menu language will also set the voice recognition language.

[Keyboard]

Configures the settings of the on-screen keyboard.

[Storage]

Changes the settings related to data storage.

[Ambient mode]

Configures what is displayed on the screen when the TV is not operated after a certain amount of time while displaying content other than broadcasts and videos.

[Power and energy]

Configures the settings related to saving energy and the startup TV screen.

[Cast]

Configures the operation permissions when casting from an external device.

[System sounds]

Configures the system sounds.

[Parental controls]

Configures the parental lock settings for restricting usage of items such as [Channels], [Apps] and [Screen time].

[Gesture Control]

Configures the gesture operations used when facing the camera.

[Built-in MIC sensitivity]

Sets the sensitivity of the built-in MIC.

To use the built-in MIC, you may need to update the TV's software.

[LED indicator]

Configures the [Operational response] and [Voice detection status]* settings. (The displayed menu varies depending on the model.)

[Apple AirPlay & HomeKit]

Configures the settings for Apple AirPlay & HomeKit.

[Initial setup]

Sets up the basic features such as network and channels for first time use.

[Retail mode settings]

Enriches the display for shop front use by setting [Demo mode], etc.

[Restart]

Restarts the TV.

* Only TVs with a built-in MIC

Remotes and accessories

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Remotes and accessories] — the desired option.

Available options

You can enable or disable Bluetooth, or register Bluetooth devices.

[Bluetooth]

Enables or disables Bluetooth.

[Pair accessory]

Pairs Bluetooth devices.

[BRAVIA CAM]

Connects the Camera and Microphone Unit to set up Camera sensing functions.

[Remote control]

Setup for pairing the Voice Remote Control.

Related topics

- [Bluetooth devices](#)
- [Using the Camera and Microphone Unit \(BRAVIA CAM supported models only\)](#)
- [Remote control buttons](#)
- [Using the remote control microphone](#)

[100] Settings

Help and feedback




Help from Sony can be displayed here. If a Google Account is set on the TV, you can also give Google feedback.

[101] Settings


Timers & Clock

In Timers & Clock, you can set the On timer, Sleep timer, Alarm, and Clock display.

Adding Timers & Clock to the input selection screen

- 1 Press the  (Input select) button.
Available devices and apps are displayed at the bottom of the screen.
- 2 Press the  (Right) button on the remote control and select  (Edit).
- 3 Select **Timers & Clock** and press the Enter button.
Timers & Clock is added.

To configure settings for Timers & Clock

- 1 Press the  (Input select) button on the remote control and select the following.
[Timers & Clock] — the desired setting

Available options

[On timer]

Turns on the TV to the desired channel or input at a preset time.

[Sleep timer]

Turns off the TV after a preset time.

[Alarm]

Plays a sound after a preset time.

[Clock display]

Displays the clock on the TV screen always or at every hour.

Related topics

- [Selecting inputs](#)

[102]

Troubleshooting

[Start here Experiencing trouble? Start here.](#)

[Picture \(quality\)/screen](#)

[Keyboard](#)

[Broadcast reception](#)

[Sound](#)

[Network \(Internet/home\)/apps](#)

[Remote control/accessories](#)

[Power](#)

[Connected devices](#)

[LED](#)

[103] Troubleshooting

Start here

[Self diagnostics](#)

[Software updates](#)



[If a full reset \(restart\) of the TV is required](#)

[Frequently Asked Questions for Troubleshooting](#)

[104] Start here | Start here

Self diagnostics

Check if the TV is working properly.

- 1 Press  (Input select) on the remote control and select [Help]. If [Help] does not exist, select  [Edit] and add [Help].
- 2 Select [Status & Diagnostics] — [Self diagnostics].

Hint

You can also check the following symptoms in [Status & Diagnostics].

- [Internet connection diagnostics]
- [External device connection diagnostics]
- [Picture/Sound test]

If the problem persists, try the following.

- Reset (restart) the TV. For details, refer to [If a full reset \(restart\) of the TV is required](#).
- Check and try [Software updates](#).



- [Support Site](#)

[105] Start here | Start here

Software updates

Sony will provide software updates from time to time in order to enhance functionality and provide users with the latest TV experience. The easiest way to receive software updates is via an internet connection to the TV.

To check for software updates automatically

- 1 Press  (Input select) on the remote control and select [Help]. If [Help] does not exist, select  [Edit] and add [Help].
- 2 Select [Status & Diagnostics]. Enable [Automatically check for update] in [Status & Diagnostics] — [System software update].

Hint

- To update the software manually, select [Software update].
- You can check the BRAVIA notifications or support website for a list of changes made by the software update.

Note

- When [Automatically check for update] is disabled, the TV cannot receive notifications even when a software update is available.

Updating software via USB storage device

If you do not have a network connection, you can also update the software by using a USB storage device.

For more about the support site, please see the [Support Site](#) page.

Related topics

- [Connecting to a Network](#)

[106] Start here | Start here

If a full reset (restart) of the TV is required

If you have trouble such as the picture not displaying on the screen or the remote control not working, reset the TV with the following procedure. If the problem persists, try the factory reset procedure below.

If an external USB device is connected to the TV, disconnect the USB device from the TV before resetting.

Power Reset

1 Restart the TV with the remote control.

Press and continue holding the power button on the remote control for about 5 seconds until the TV restarts (a shutting down message will appear).

If the issue persists, unplug the TV and press the power button on the TV once.

Then wait 2 minutes before turning on the TV. Depending on the model, you can press and hold the power button on the TV (40 seconds or longer) until it turns off and restarts.

2 Unplug the AC power cord (mains lead).

If the problem persists after step 1, unplug the TV power cord (mains lead) from the electrical outlet. Then press the power button on the TV, and release it. Wait for 2 minutes, and plug the power cord (mains lead) back into the electrical outlet.

Hint


- TV models with 1 button on the TV (power button only) can also be restarted using the power button. Press the power button on the TV to display the operation menu, select [Restart] in the menu, and then press and hold the power button to restart the TV.
- Your personal settings and data will not be lost after the TV restarts.

Factory data reset

If the problem persists after a power reset, try a factory data reset.

Note

Performing a factory reset will delete all of the TV's data and settings (such as Wi-Fi and wired network setting information, Google Account and other login information, Google Play and other installed apps).

1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — [About] — [Reset] — [Factory data reset].

2 Delete everything.

If you have set a PIN code on your TV, you will be prompted to input it.

After the factory reset process completes successfully, the TV will start the Initial Setup wizard. You must agree to the Google Terms of Service and Google Privacy Policy.

[107] Start here | Start here

Frequently Asked Questions for Troubleshooting

For troubleshooting information, you can also refer to “Frequently Asked Questions” in our support site below.

- <http://www.sony.net/androidtv-faq/>

[108] Troubleshooting

Picture (quality)/screen

No colour/Dark picture/Colour is not correct/Picture is too bright.


Distorted picture./The screen flickers.


High resolution HDR pictures are not displayed.

OLED panel (only models equipped with an OLED panel)


[109] Picture (quality)/screen | Picture (quality)/screen

No colour/Dark picture/Colour is not correct/Picture is too bright.

- Check the antenna (aerial)/cable connection.
- Connect the TV to the AC power (mains), and press the power button on the TV or the remote control.
- Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture & Sound] — [Picture] to make adjustments.
For details, refer to [Adjusting the picture quality](#) page.

- Press the  (Quick Settings) button on the remote control, and check [Brightness (***)] and [Power saving] on the Quick Settings screen.
You cannot set [Brightness (***)] when [Power saving] is set to [High]. Change the [Power saving] setting.

Note

- Picture quality depends on the signal and content.
- The picture quality may improve if you change it in [Picture] under [Settings].
Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture & Sound] — [Picture] — [Brightness (***)], and adjust [Brightness (***)] or [Contrast (***)].

Related topics

- [Display & Sound](#)



[110] Picture (quality)/screen | Picture (quality)/screen

Distorted picture./The screen flickers.

Check the connection and position of the antenna (aerial) and peripheral devices

- Check the antenna (aerial)/cable connection.
- Keep the antenna (aerial)/cable away from other connecting cables.
- When installing an optional device, leave some space between the device and the TV.
- Make sure that the antenna (aerial) is connected using a high quality 75-ohm coaxial cable.

Check the [Motion] setting

- Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture & Sound] — [Picture] — [Motion] — [Motionflow] — [Mode] — [Off].
 - Change the current setting of [Film mode] to [Off].
Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture & Sound] — [Picture] — [Motion] — [Film mode].
-

High resolution HDR pictures are not displayed.

The following are required to watch high resolution HDR pictures such as 4K (50p/60p)*.

- Connect the 4K (50p/60p)* playable device.
- Use a Premium High Speed HDMI™ Cable(s) that supports 18 Gbps.
- Set [HDMI signal format] to [Enhanced format] by selecting [Settings] — [Channels & Inputs] — [External inputs] — [HDMI signal format/VRR] — the HDMI terminal you want to set.
- Check whether the connected device has the latest settings or firmware.

* Availability depends on your model/region/country.

OLED panel (only models equipped with an OLED panel)

The screen becomes darker after a certain period of time. (only models equipped with an OLED panel)

The message [Panel refresh did not finish] is displayed. (only models equipped with an OLED panel)

You are concerned about an image retention. (only models equipped with an OLED panel)

A white line, or a red, green, or blue line appears on the screen. (only some models equipped with an OLED panel)

The screen becomes darker after a certain period of time. (only models equipped with an OLED panel)

- If the whole image or part of the image remains still, the screen will gradually become darker to reduce image retention. This is a feature to protect the panel, and is not a malfunction.
-

[114] OLED panel (only models equipped with an OLED panel) | OLED panel (only models equipped with an OLED panel) | OLED panel (only models equipped with an OLED panel)

The message [Panel refresh did not finish] is displayed. (only models equipped with an OLED panel)

If the TV is turned on, the AC power cord (mains lead) is unplugged, or the ambient temperature falls outside of the range between 10°C and 40°C during the panel refresh, the process will not complete and this message will appear. Start the procedure again from the beginning.

Hint

- Depending on your model, a panel refresh may take up to an hour to complete.

[115] OLED panel (only models equipped with an OLED panel) | OLED panel (only models equipped with an OLED panel) | OLED panel (only models equipped with an OLED panel)

You are concerned about an image retention. (only models equipped with an OLED panel)

If the same image is displayed repeatedly or for long periods of time, image retention may occur. This issue is not a malfunction.

The TV has two functions, [Pixel shift] and [Panel refresh], that are designed to reduce image retention.

You can perform a [Panel refresh] when necessary.

- 1 **Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Expert panel settings] — [Panel refresh].**

Hint

- [Pixel shift] is a feature that helps prevent image retention by automatically moving the image at fixed intervals. Under normal circumstances, keep this option enabled.
- To reduce image retention, we recommend that you turn off the TV on a daily basis for more than four hours using the remote control or the power button on the TV.

Note

- Manually perform panel refresh only when image retention is particularly noticeable. Avoid performing it more than once a year because it may affect the usable life of the panel.
- Images that include clocks and bright colours easily cause image retention. Avoid displaying these types of images for long periods of time, otherwise image retention may occur.

[116] OLED panel (only models equipped with an OLED panel) | OLED panel (only models equipped with an OLED panel) | OLED panel (only models equipped with an OLED panel)

A white line, or a red, green, or blue line appears on the screen. (only some models equipped with an OLED panel)

- The panel refresh feature is running. A white line, or a red, green, or blue line may be displayed on the screen during the panel refresh. This is not a malfunction of the TV.

Hint

- Depending on your model, a panel refresh may take up to an hour to complete.
- In the following cases, the panel refresh will not finish and a message will be displayed.
 - The room temperature is outside the range of 10°C and 40°C during a panel refresh (only for some models).
 - The TV is turned on.
 - The power cord is disconnected.

If the message is displayed, refer to the panel refresh description in the manual supplied with your TV for details.

[117] Troubleshooting

Keyboard

You cannot operate the current screen after the on-screen keyboard is displayed.

- To return to operation of the screen behind the on-screen keyboard, press the ↩(BACK) button on the remote control.
-

Broadcast reception

Check these things first to troubleshoot your TV reception.

You cannot view digital channels.

Some digital channels are missing.

Check these things first to troubleshoot your TV reception.

- Make sure that the antenna (aerial) cable is firmly connected to the TV.
 - Make sure that the antenna (aerial) cable is not loose or disconnected.
 - Make sure that the cable or cable connector of antenna (aerial) is not damaged.
- To watch streaming content, connect the TV to the Internet.

Hint

- For more information, please visit the Sony support website.

[Support Site](#)

Related topics

- [Using Wi-Fi to connect the TV to the Internet/Network](#)
- [Connecting to a network using a LAN cable](#)

You cannot view digital channels.


- Ask a local installer if digital transmissions are provided in your area.
- Upgrade to a higher gain antenna (aerial).

Related topics

- [Check these things first to troubleshoot your TV reception.](#)
 - [Some digital channels are missing.](#)
-

Some digital channels are missing.

To change the tuning range (available depending on your region/country)

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Advanced settings] — [Tuning range].

[Normal]

Searches for available channels within your region/country.

[Extended]


Searches for available channels regardless of region/country.

To update digital services

You can run [Auto tuning] after moving to a new residence, changing service providers, or to search for newly launched channels.

Configuring automatic service updates

We recommend that [Auto service update] is enabled to allow new digital services to be added automatically as they become available.

- 1 To enable [Auto service update], press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Advanced settings] — [Auto service update].

If disabled, you will be notified of new digital services by an on-screen message and the services will not be automatically added.

Hint

- The availability of this function depends on your region/country. If unavailable, perform [Auto tuning] to add new services.

Related topics

- [Check these things first to troubleshoot your TV reception.](#)

- [You cannot view digital channels.](#)

[122] Troubleshooting

Sound

[No sound but good picture.](#)

[No audio or low audio with a home theatre system.](#)

[You want to output sound from the headphones/Bluetooth audio device and audio system/TV speakers at the same time.](#)

[You are concerned about a delay between the picture and sound.](#)

[No TV sounds such as operation sound or audio response.](#)




[You cannot establish an eARC connection.](#)

[You cannot use voice search with the built-in MIC \(only TVs with a built-in MIC\).](#)

[The TV responds to sound from the surroundings \(only TVs with a built-in MIC\).](#)

[123] Sound | Sound

No sound but good picture.


- Check the antenna (aerial)/cable connection.
- Connect the TV to the AC power (mains), and press the power button on the TV or the remote control.
- Check the volume control.
- Press  (Mute) or  (Volume) + button to cancel muting.
- Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [TV speakers].


Related topics

- [No audio or low audio with a home theatre system.](#)
-

[124] Sound | Sound

No audio or low audio with a home theatre system.

- Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system].

- If the audio system is not compatible with Dolby Digital or DTS, set [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [Digital audio output] to [PCM].
- If you select an analogue (RF) channel and pictures are not displayed correctly, you will need to change the TV broadcast system. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Manual tuning] — [Analogue] — [TV system]. (Availability of [Analogue] or option name differs depending on the region/country/situation.)
- Check if the TV's [Optical digital audio output volume] setting is at maximum.

Press the  (Quick Settings) button on the remote control, then select:

[Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [Optical digital audio output volume]

- When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (OPTICAL) may not provide an audio signal.

Related topics

- [Connecting an audio system](#)

[125] Sound | Sound

You want to output sound from the headphones/Bluetooth audio device and audio system/TV speakers at the same time.

To output sound from both the headphones/Bluetooth audio device and TV speakers

The TV can output sound from both the headphones or Bluetooth audio device and the TV speakers at the same time.

To output sound from both an audio system connected via eARC/ARC and TV speakers

Sound can be output from both an audio system connected to the TV and the TV speakers at the same time by satisfying the following conditions.

- Connecting the TV and audio system using a digital optical cable
- Setting [Digital audio output] to [PCM]


For details about digital optical cable connections, refer to the [Connecting an audio system](#) page.

[126] Sound | Sound

You are concerned about a delay between the picture and sound.


If a Bluetooth audio device is connected

The picture and sound do not match because the sound is delayed due to the properties of Bluetooth. You can adjust the output timing of the picture and sound with the A/V sync setting.

- 1 Set [A/V sync] to [Auto] or [On]. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Bluetooth device settings] — [A/V sync].

If a specific audio system is connected with an HDMI cable

If the audio device is connected with an HDMI cable, the sound may be delayed due to the properties of the audio device. In that case, you can adjust the video and audio output timing with the A/V sync setting.

- 1 Press the  (Quick Settings) button on the remote control, and then select the following in order.
[Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [A/V sync] — [Auto] or [On]

Related topics


- [Adjusting the AV sync setting](#)
- [Adjusting an audio system](#)

[127] Sound | Sound


No TV sounds such as operation sound or audio response.

If the TV is connected via eARC or [Digital audio output] is set to [Prioritise pass through], TV sounds such as those from remote control operation or voice responses are not output because audio signals from the HDMI input are passed through to the eARC audio system. To output those sounds from the TV, try the following.

- Stop watching the HDMI input device.
- Set [eARC setting] to [Off].

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [eARC setting] — [Off].

- Set [Digital audio output] to [PCM].

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [Digital audio output] — [PCM].

[128] Sound | Sound

You cannot establish an eARC connection.

- [eARC setting] does not work when the text-to-speech function for on-screen text within the TV's accessibility features is enabled.
- Connect the audio system to an HDMI cable with Ethernet.
- Connect the audio system to the TV's HDMI input terminal bearing the text "ARC" or "eARC/ARC".
- Configure the settings as follows.
 - [Settings] — [Display & Sound] — [Audio output] — [Audio system settings] — [eARC setting] — [Auto]
 - [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system]
- Enable the audio system's eARC feature.

Related topics

- [Connecting an audio system](#)

[129] Sound | Sound

You cannot use voice search with the built-in MIC (only TVs with a built-in MIC).

To use the built-in MIC, you may need to update the TV's software.

Check if the Built-in MIC Switch is on. The voice recognition performance of the built-in MIC may also degrade in the following cases.


- When eARC features are enabled
- When a sound bar is connected
- When [Digital audio output] is set to [Prioritise pass through]

[130] Sound | Sound

The TV responds to sound from the surroundings (only TVs with a built-in MIC).

To use the built-in MIC, you may need to update the TV's software.

The TV's built-in MIC may pick up sound from the surroundings and respond unintentionally. Change the sensitivity of the TV's built-in MIC to [Medium] or [Low].

Press the  (Quick Settings) button on the remote control, and select the following in order. [Settings] — [System] — [Built-in MIC sensitivity]

[131] Troubleshooting

Network (Internet/home)/apps


The TV cannot connect to the Internet/Network.

You can connect to the Internet, but not to certain apps and services.

[132] Network (Internet/home)/apps | Network (Internet/home)/apps

The TV cannot connect to the Internet/Network.


If the wireless network does not connect or disconnects, try the following.

- Press the  (Quick Settings) button on the remote control and check that the following setting is enabled.
[Settings] — [Network and Internet] — [Wi-Fi]
- Check the installation location of the TV and wireless router. Signal condition may be affected by the following:
 - Other wireless devices, microwaves, fluorescent lights, etc., are placed nearby.
 - There are floors or walls between the wireless router and TV.

- Turn the wireless router off and then on again.
- If the network name (SSID) of the wireless router to which you want to connect is not displayed, select [Add new network] to enter a network name (SSID).

If the problem is not resolved even after the procedures above or if you cannot connect even with a wired network, check the status of the network connection.

Checking the status of the network connection

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet] — [Network status] — [Check Connection].


Check your network connections and/or server's instruction manual for connection information, or contact the person who set up the network (network administrator).

Hint

- The solution varies depending on the network status check. For solutions based on each issue, see "[Frequently Asked Questions](#)" on the Sony Support Site.

Note

- If the LAN cable is connected to an active server and the TV has acquired an IP address, check your server's connections and configurations.

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network and Internet] — [Network status].


Related topics

- [Using Wi-Fi to connect the TV to the Internet/Network](#)
- [Connecting to a network using a LAN cable](#)

[133] Network (Internet/home)/apps | Network (Internet/home)/apps

You can connect to the Internet, but not to certain apps and services.

- The date and time settings of this TV may be incorrect. Depending on certain apps and services, you may not be able to connect to those apps and services if the time is incorrect.

If the time is incorrect, press the  (Quick Settings) button on the remote control, then select [Settings] — [Automatic date & time] — [Automatically adjusts the time provided by your network or broadcast.] in [System] — [Date and time].

- Check that the LAN cable and AC power cord (mains lead) of the router/modem* has been properly connected.

* Your router/modem must first be setup 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.

Hint

- For more information, please visit the Sony support website.

[Support Site](#)

Related topics

- [Connecting to a network using a LAN cable](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)

[134] Troubleshooting

Remote control/accessories

The remote control does not operate.

You want to disable the remote control backlight. (only remote controls that feature backlight)

[135] Remote control/accessories | Remote control/accessories

The remote control does not operate.

Check if the TV is working properly

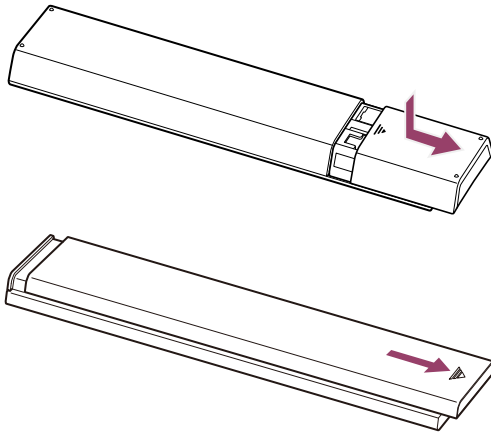
- Press the power button on the TV to determine if the problem is with the remote control or not. For the location of the power button, refer to the Reference Guide/Setup Guide supplied with the TV.
- If the TV is not working, try resetting it.

If a full reset (restart) of the TV is required

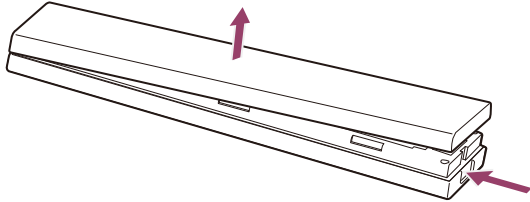
Check if the remote control is working properly

- Point the remote control at the remote control sensor located at the front of the TV.
- Keep the remote control sensor area clear from obstacles.
- Fluorescent light can interfere with remote control operation; try turning off any fluorescent light.
- Check that the orientation of each battery matches the positive (+) and negative (-) symbols in the battery compartment.
- Battery power may be low. Remove the remote control cover and replace the batteries with new ones.

– **Sliding type**



– **Push-release type**



Note


- Remote controls with a Google Assistant/MIC button are connected to the TV using Bluetooth. Radio interference may occur in the following situations and cause issues such as poor operation of microphone or remote control because Bluetooth radio waves use the same frequency as radio waves emitted from microwaves and wireless LANs.

- There are people or obstacles (such as metal objects or walls) between the TV and remote control.
- A microwave is being used nearby
- There is a wireless LAN access point nearby
- The TV and remote control are unpaired


In these cases, try the following solutions.

- Use the remote control closer to the TV
- Remove obstacles between the TV and remote control

- Use the remote control when a microwave is not in use
- Turn off other Bluetooth devices
- Check the TV's Bluetooth setting and turn it on and off

Press the  (Quick Settings) button on the remote control and select the following in order. If [Settings] — [Remotes and accessories] — [Bluetooth] is disabled, enable it. If it is enabled, disable and then enable it again.

- Set wireless LAN access points and microwaves at least 10 m away from the TV
- If the 5 GHz band is available in the wireless LAN, connect to the 5 GHz band
- Pair the remote control again

Press the  (Quick Settings) button on the remote control, and select the following in order. [Settings] — [Remotes and accessories] — [Remote control] — [Connect via Bluetooth] — [Connect a new remote] — follow the on-screen instructions to reconnect the remote control.

If you cannot operate the TV with the supplied remote control, select the above in order until [Connect a new remote] using another Sony TV's remote control, and then try connecting again with the supplied remote control.

- Depending on your model, a Bluetooth remote control is supplied and already paired with the TV. At the time of shipment, the supplied paired remote control cannot be used to operate other TVs. When checking remote control operation, use with the TV with which the remote control was supplied.

Reset the remote control

If the remote control does not operate correctly due to poor battery contact or static electricity, the problem may be resolved by resetting the remote control.

- 1 Remove the batteries from the remote control.**
- 2 Press the power button on the remote control for three seconds.**
- 3 Install new batteries into the remote control.**

If the problem persists, refer to [If a full reset \(restart\) of the TV is required](#) and [Frequently Asked Questions for Troubleshooting](#) pages.

Note

- When you unplug the TV and plug it in again, the TV may not be able to turn on for a while, even if you press the power button on the remote control or the TV. This is because it takes time to initialise the system. Wait for about 10 to 20 seconds, then try again.

Related topics

- [Using the remote control microphone](#)

[136] Remote control/accessories | Remote control/accessories

You want to disable the remote control backlight. (only remote controls that feature backlight)

You can turn off the remote control backlight.

- 1 **Press and hold the  (Volume) - button and then  (HOME) button on the remote control for 2 seconds.**

Release when the MIC LED on the remote control lights up twice.

To enable the remote control backlight again, perform the procedure above.

[137] Troubleshooting

Power

[The TV cannot be turned off using the remote control.](#)

[The TV turns off automatically.](#)

[The TV turns on automatically.](#)

[The TV does not turn on.](#)

[138] Power | Power

The TV cannot be turned off using the remote control.

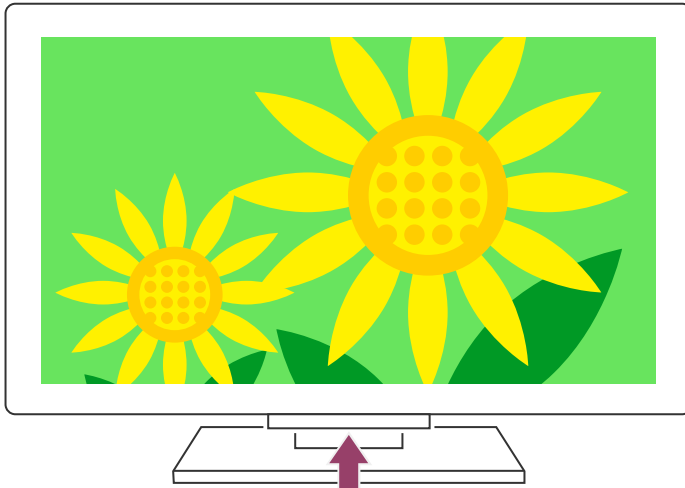
The batteries in the remote control may be depleted. Replace them with new ones or turn off the TV using the power button on the TV.

You can press and hold the power button on the TV to turn it off.

Note

- The location of the power button on the TV varies depending on your model/country/region.

Example of model with the power button under the LED



Hint

- For TV models with 1 button on the TV (power button only), you can press the power button on the TV to display the operation menu and adjust the volume or change channels.
- When the battery level of the remote control is low, you will see a notification on the HOME menu.


Related topics

- [The remote control does not operate.](#)
- [If a full reset \(restart\) of the TV is required](#)
- [Home menu](#)
- [Using the Quick Settings](#)

[139] Power | Power

The TV turns off automatically.

- The screen may have been turned off due to [Sleep timer] settings.
- Check the [Duration] setting of [On timer].
- If the time set in [Turn off TV after] elapses, the power turns off automatically.

To check the settings, press the  (Quick Settings) button on the remote control and select the following in order.

[Settings] — [System] — [Power and energy] — [Energy saver] — [Turn off TV after]

Related topics

- [Timers & Clock](#)

[140] Power | Power

The TV turns on automatically.

- Check if the [On timer] is activated.
- Disable the [Auto TV on] setting in [BRAVIA Sync settings].

Related topics

- [BRAVIA Sync-compatible devices](#)
- [Timers & Clock](#)

[141] Power | Power

The TV does not turn on.

Perform the procedures in the order below until the problem is solved.

1. Check if the TV turns on with the remote control.

Point the remote control at the sensor on the front of the TV and press the power button on the remote control.

Check if the TV turns on.

If the TV does not turn on, try resetting (restarting) the TV.

- [If a full reset \(restart\) of the TV is required](#)

2. Check if the TV turns on with the power button on the TV.

Press the power button on the TV and check if the TV turns on.

For the location of the power button, refer to the Reference Guide/Setup Guide.

If the TV turns on with this procedure, there may be a problem with the remote control. Refer to the following topic.

- [The remote control does not operate.](#)

3. Unplug the AC power cord (mains lead).

Unplug the TV power cord (mains lead) from the electrical outlet. Then press the power button on the TV and wait for 2 minutes, and plug the power cord (mains lead) back into the electrical outlet.

Hint

- When you unplug the TV and plug it in again, the TV may not be able to turn on for a while, even if you press the power button on the remote control or TV. This is because it takes time to initialise the system. Wait for about 10 to 20 seconds, then try again.

Related topics

- [The remote control does not operate.](#)
- [If a full reset \(restart\) of the TV is required](#)

[142] Troubleshooting

Connected devices

[No picture from a connected device.](#)

[You cannot select a connected device.](#)

[You cannot find a connected BRAVIA Sync HDMI device.](#)

[You cannot turn off the TV box using the TV's remote control.](#)



[An external device \(such as a TV box\) cannot be controlled using the TV's remote control.](#)

[\(TV box control compatible models only\)](#)

[Operation cuts out, or a device does not work.](#)

[143] Connected devices | Connected devices

No picture from a connected device.

- Turn the connected device on.
- Check the cable connection between the device and TV.
- Press the  (Input select) button to display the list of inputs, then select the desired input.
- Correctly insert the USB device.
- Make sure that the USB device has been properly formatted.
- Operation is not guaranteed for all USB devices. Also, operations differ depending on the USB device features or the video files being played.
- Change the HDMI signal format of the HDMI input that does not display a picture to standard format. Press the  (Quick Settings) button on the remote control, then select

[Settings] — [Channels & Inputs] — [External inputs] — [HDMI signal format/VRR] — the HDMI input you want to set.

Related topics

- [Using the TV with Other Devices](#)

[144] Connected devices | Connected devices

You cannot select a connected device.

- Check the cable connection.

Related topics

- [Using the TV with Other Devices](#)

[145] Connected devices | Connected devices

You cannot find a connected BRAVIA Sync HDMI device.

- Check that your device is BRAVIA Sync-compatible.
- Make sure that [Control for HDMI] is set up on the BRAVIA Sync-compatible device and [BRAVIA Sync settings] — [BRAVIA Sync control] is set up on the TV.

Related topics

- [BRAVIA Sync-compatible devices](#)

[146] Connected devices | Connected devices

You cannot turn off the TV box using the TV's remote control.

TV box control compatible models have [TV box setup] in [Settings] — [Channels & Inputs] — [External inputs].

[147] Connected devices | Connected devices

An external device (such as a TV box) cannot be controlled using the TV's remote control. (TV box control compatible models only)

TV box control compatible models have [TV box setup] in [Settings] — [Channels & Inputs] — [External inputs].

- Make sure that your TV supports the external device.
- If you press and hold a button on the remote control, the operation may not work. Instead, try pressing the button repeatedly.
- Depending on the external devices, some buttons may not work.

Related topics

- [How to control the TV box using the TV remote control](#)

[148] Connected devices | Connected devices

Operation cuts out, or a device does not work.

- Check if the device is turned on.
- Replace the batteries of the device.
- Re-register the device.
- Bluetooth devices use the 2.4GHz band, therefore communication speed may deteriorate or cut out occasionally due to wireless LAN interference.
If household electric appliances (e.g., microwaves or mobile devices) are placed nearby, radio wave interference is more likely to happen.
- The TV or device may not work on a metal rack due to wireless communication interference.
- For usable communication distances between the TV and other devices, refer to the instruction manuals of the devices.
- When multiple Bluetooth devices are connected to the TV, the quality of Bluetooth communication may deteriorate.

Related topics

- [Bluetooth devices](#)

[149] Troubleshooting

LED

You want to disable the LED so that it does not light up or blink.


The Operational response LED blinks in red.

[150] LED | LED

You want to disable the LED so that it does not light up or blink.

You can use the settings below to turn off the LED.

To turn off the Operational response LED (white LED)

Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — [LED indicator] — disable [Operational response].

To turn off the voice function LED (pale yellow LED)/Operational response LED (amber LED) (only TVs with a built-in MIC)

To turn off the voice function LED when the Built-in MIC switch is turned off, or to turn off the operational response LED when the Built-in MIC switch is on, in [Settings] — [System] — [LED indicator], disable [Voice detection status].

Note

- The status of the LED depends on the settings and the on/off setting of the Built-in MIC switch.
- The colour of the voice function LED may vary based on the specification.
- To use the built-in MIC, you may need to update the TV's software.

Related topics

- [How the LEDs light up](#)

[151] LED | LED

The Operational response LED blinks in red.

Count how many times it flashes (interval time is three seconds).

Reboot the TV by disconnecting the AC power cord from the TV for two minutes, then turn on the TV.

If the problem persists, disconnect the AC power cord, and contact Sony Customer Support with the number of times the Operational response LED flashes.

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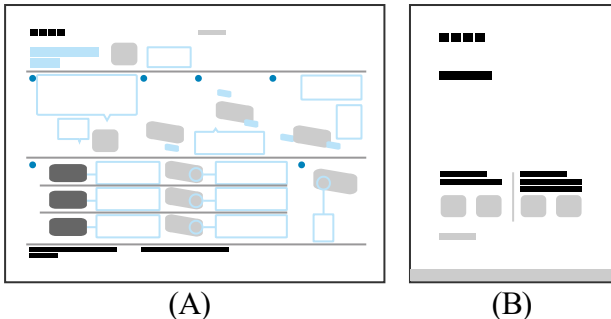
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About the Help Guide

This Help Guide explains how to use this TV. You can also refer to the Setup Guide for descriptions about TV installation, and the Reference Guide for information such as specifications, and wall mounting of this TV.



(A) Setup Guide

(B) Reference Guide

Help Guide versions

There are two versions of the Help Guide: the built-in version and the online version. The online Help Guide includes the latest information.

The online Help Guide is automatically displayed when the TV is connected to the internet, otherwise the built-in Help Guide is displayed.



Help Guide structure

For details about the structure of the Help Guide, see the [Help Guide structure](#) page.

Note

- To use the latest features described in the Help Guide, you may need to update the TV's software. For details about software updates, see the [Software updates](#) page.
- The names of settings in the Help Guide may differ from those displayed on the TV depending on the TV's release date or your model/country/region.
- The images and illustrations used in the Help Guide may differ depending on your TV model.
- Design and specifications are subject to change without notice.
- The Help Guide contains descriptions common across all models/regions/countries. Some descriptions of features do not apply depending on your model/region/country.

Hint

- This Help Guide is written for all regions/countries. Some descriptions contained in this Help Guide do not apply to some regions and countries.

Related topics

- [Connecting to a network using a LAN cable](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)

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Help Guide structure

The Help Guide is structured as follows.

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- [Connecting terminal](#)
- [How the LEDs light up](#)
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- [Displaying two screens](#)
- [Selecting the Content type based on the current content](#)
- [Enjoying preferred apps](#)
- [Finding the remote control \(only models supplied with a buzzer built-in remote control\)](#)
- [Enjoying safe apps and video streaming services \(Security and restrictions\)](#)
- [Using the Camera and Microphone Unit \(BRAVIA CAM supported models only\)](#)

Watching TV

- [Watching TV programmes](#)
- [Useful features when watching TV](#)
- [Adjusting the picture/screen/sound quality to your preferences](#)

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Specifications

You can find the specification information on the Sony support website:

Please visit the product page of your TV and refer to Specifications. For more about the support website, see the [Support Site](#) page.



Note

- A Specifications page may not be available depending on your model. In such cases, please refer to the Reference Guide.

Related topics

- [Computer video signal specifications](#)

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Support Site

For the latest information and Online Help Guide, please visit the Sony support website:

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

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Keeping the TV updated

The TV acquires data such as programme guides while it is in standby/networked standby mode. To keep your TV updated, we recommend that you turn off the TV normally by using the power button on the remote control or TV.

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Trademark information



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Note

- The availability of each service depends on your region/country.
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