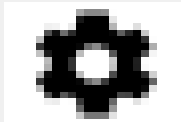



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Television

Use this Help Guide if you have any questions on how to use your TV.
For detailed information, refer to [“Using the Help Guide”](#).

Selected Topics

[Useful features](#)[Settings](#)[Connecting terminal](#)[Using an S-center speaker](#)[Remote control](#)[Changing the picture and sound quality to your preferences](#)

- If you want to print the complete Help Guide, see [“Help Guide \(Print Version\)”](#) .
- For troubleshooting information, you can also refer to the

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Using 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.

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.

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

- To see if your TV is equipped with one of the functions described in

the Help Guide, refer to the Reference Guide or the Sony website.

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

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Settings

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

Using the Quick Settings

Channels & Inputs

Channels and External inputs, etc.

Display & Sound

Picture, Screen, Sound and Audio output, etc.

Network & Internet

Accounts & Sign In

Configure the Google Account or add other accounts.

Privacy

You can restrict installation of apps from unknown sources.

Apps

System

Date & Time, Language, Sound, Accessibility, Parental controls and LED indicator, etc.

Remotes & Accessories


Remote control and Bluetooth settings.

Help & Feedback

Provides help from Sony and Google.

Timers & Clock

Timer, Sleep timer, Alarm, Clock display, etc.

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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> <div data-bbox="1073 989 1523 1249" style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <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. </div>
	<p>REMOTE IR IN / REMOTE</p> <p>Connects to the Home Controller. These jacks are for receiving the external control signal. Enables extended control of the TV using RS-232C via the RS-232C and IR IN jacks. RS-232C: Connects to the RS-232C terminal of the home controller. IR IN: Connects to the IR out terminal of the home controller.</p> <div data-bbox="1073 1703 1523 1879" style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>Note</p> <ul style="list-style-type: none"> Take care to not connect to headphones or an audio system. </div>
	<p>VIDEO IN</p>

		<p>Connects to VCR/video game equipment/DVD player/Camcorder.</p> <p>For a composite connection, use an Analog Extension Cable (not supplied).</p> <p>For more about the shape of the Analog Extension Cable, refer to Connecting a Blu-ray or DVD player.</p>
		<p>🎧 (Headphone)</p> <p>Connects to the headphone jack to listen to sound from the TV. Supports 3-pole stereo mini jack only.</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>Note</p> <ul style="list-style-type: none"> You cannot output sound from both the headphone and the TV speakers at the same time. </div>
		<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 (8K, 4K 120 Hz)</p> <p>If you use an HDMI device that supports video output in 8K or 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> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>Note</p> <ul style="list-style-type: none"> 4K 100 Hz support depends on your country/region. </div>
		<p>HDMI IN (4K 120 Hz)</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.

Note

- 4K 100 Hz support depends on your country/region.



HDMI IN (eARC/ARC)

To connect an audio system that supports eARC (Enhanced Audio Return Channel) or ARC (Audio Return Channel), connect to the HDMI port labeled “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).



DIGITAL AUDIO OUT (OPTICAL)

Connects to an audio system with optical audio input.

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.



TV (Cable/Antenna input)

Connects to Cable/Antenna/External Box.

Note

- When connecting the cable to the Cable/Antenna input, finger tighten only, over tightening the connection can damage the TV.



LAN

Connect to a Router.
Connect to the Internet using a LAN cable.



CENTER SPEAKER IN

To use your TV speakers as the center speaker, connect the output of your AV receiver to the CENTER SPEAKER IN on your TV.

To use your TV speakers as the center speaker, press the ⚙️ (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system].

Note

- 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 [TV center speaker mode] in [Settings] — [Display & Sound] — [Audio output].




S-CENTER SPEAKER IN

Connects the TV and an audio device with an S-CENTER OUT output/jack using a TV center speaker mode cable. Before connecting, make sure you unplug the AC power cord (mains lead) of the TV and audio device to be connected.

For details, refer to [Using the TV as a center speaker \(only models with TV center speaker mode\)](#).

Note

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.

Press the  (Quick Settings) button on the remote control, and disable [TV center speaker mode] in [Settings] — [Display & Sound] — [Audio output].



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Using the TV as a center speaker (only models with TV center speaker mode)

Models with a TV center speaker mode have CENTER SPEAKER IN terminals or S-CENTER SPEAKER IN terminals on the back of the TV.


On TVs with S-CENTER SPEAKER IN input, you can use the TV as a center speaker in the following cases.

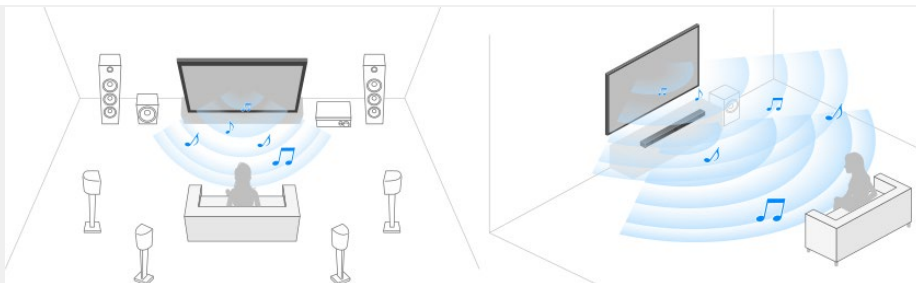
- When a sound bar with an S-CENTER OUT output/jack is connected

By using the TV as a center speaker, conversations sound natural because you can hear them from the screen and its vicinity.

Hint

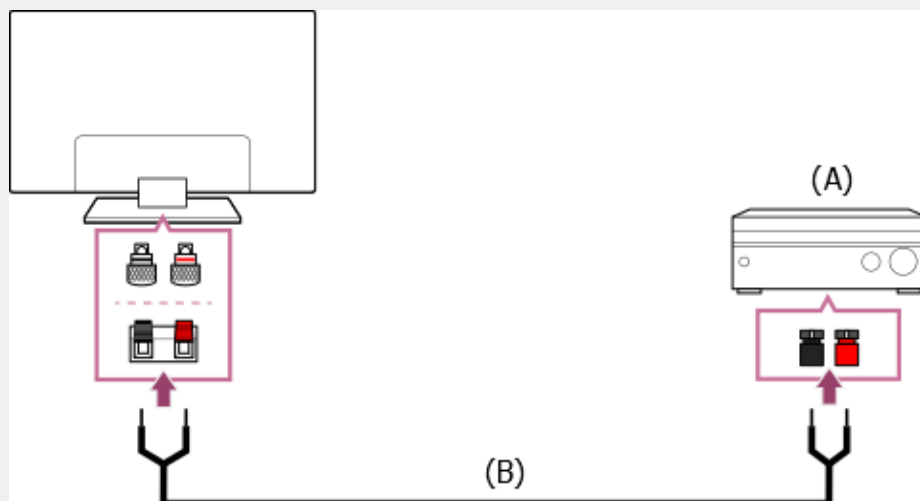
- Some models have both CENTER SPEAKER IN and S-CENTER SPEAKER IN terminals.

- 1** Connect the device to the TV while referring to “Connecting an AV receiver with a speaker cable” or “Connecting a sound bar (only models with S-CENTER SPEAKER IN terminals)” below.
- 2** Press the  (Quick Settings) button on the remote control, change [Settings] — [Display & Sound] — [Audio output] — [Speakers] to [Audio system].



Connecting an AV receiver with a speaker cable

Connect the TV and AV receiver with a speaker cable.



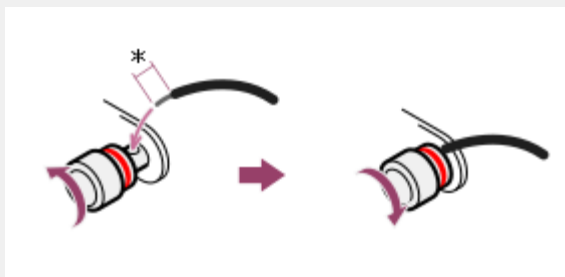
(A) AV receiver

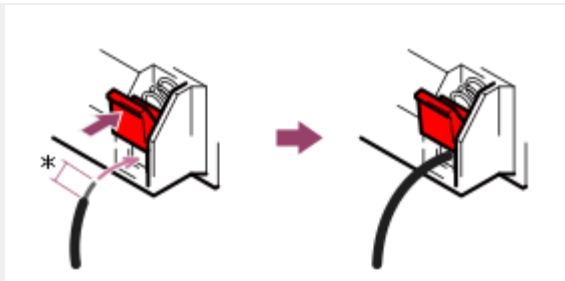
(B) Speaker cable (not supplied)

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.

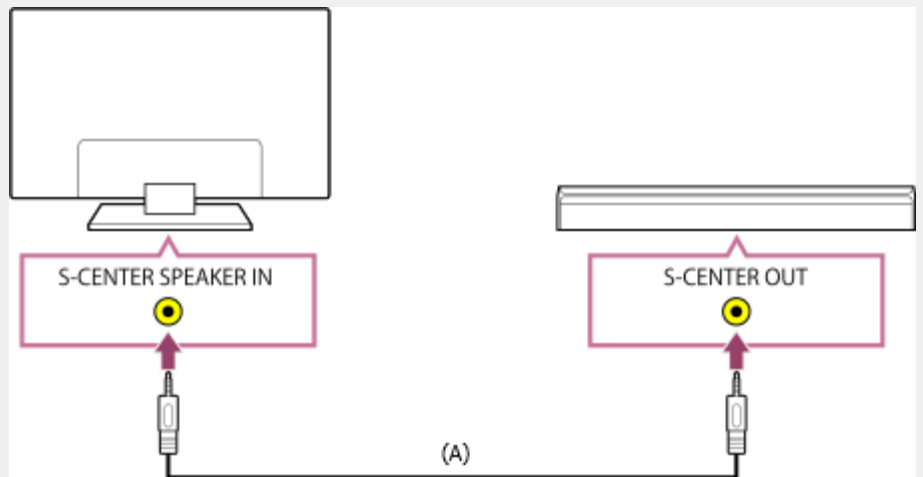
Note

- 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.

Connecting a sound bar (only models with S-CENTER SPEAKER IN terminals)

Connect the TV and sound bar with the TV center speaker mode cable supplied with sound bar/home theater system.

When a sound bar is connected, center audio is output from both the TV and sound bar, allowing you to enjoy both impactful sound from the sound bar and natural conversations.



(A) TV center speaker mode cable (supplied with 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.

Related topics

- [Connecting an audio system](#)



> [Using the TV with Other Devices](#)

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

> [Using the TV as a center speaker \(only models with TV center speaker mode\)](#)

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Remote control

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Upper buttons on the remote control

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

- [Lower buttons on the remote control](#)



(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.

(Input)

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

123 (Control menu)

Display a menu on the TV to use button functions that are not on the remote



control on the screen.

▲ (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.

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

[4] Remote control | Remote control

Lower buttons on the remote control

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

- [Upper buttons on the remote control](#)



▲/▼ (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)**.

CH +/- (Channel)



Select the channel.

▶ (Play) / || (Pause)

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

☰ (Guide)

Display the digital program guide of the TV or cable/satellite box. For details, refer to [Using the program guide](#) page.

⏸ / ⏹ (Online service)

Enjoy various video streaming services with one push. Press to watch your desired service.

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






[5] Getting Started






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 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>REMOTE IR IN / REMOTE Connects to the Home Controller. These jacks are for receiving the external control signal. Enables extended control of the TV using RS-232C via the RS-232C and IR IN jacks. RS-232C: Connects to the RS-232C terminal of the home controller. IR IN: Connects to the IR out terminal of the home controller.</p>

	<p>Note</p> <ul style="list-style-type: none"> • Take care to not connect to headphones or an audio system.
	<p>VIDEO IN</p> <p>Connects to VCR/Video game equipment/DVD player/Camcorder. For a composite connection, use an Analog Extension Cable (not supplied). For more about the shape of the Analog Extension Cable, refer to Connecting a Blu-ray or DVD player.</p>
	<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>Note</p> <ul style="list-style-type: none"> • You cannot output sound from both the headphone and the TV speakers at the same time.
	<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 (8K, 4K 120 Hz)</p> <p>If you use an HDMI device that supports video output in 8K or 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.
	<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.

	<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 labeled “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>T (Cable/Antenna input)</p> <p>Connects to Cable/Antenna/External Box.</p> <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <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. </div>
	<p>LAN</p> <p>Connect to a Router.</p> <p>Connect to the Internet using a LAN cable.</p>
	<p>CENTER SPEAKER IN</p> <p>To use your TV speakers as the center 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 center speaker, press the ⚙️ (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system].</p> <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <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 [TV center speaker mode] in [Settings] — [Display & Sound] — [Audio output]. </div>

S-CENTER SPEAKER IN


S-CENTER SPEAKER IN

Connects the TV and an audio device with an S-CENTER OUT output/jack using a TV center speaker mode cable. Before connecting, make sure you unplug the AC power cord (mains lead) of the TV and audio device to be connected.

For details, refer to [Using the TV as a center speaker \(only models with TV center speaker mode\)](#).

Note

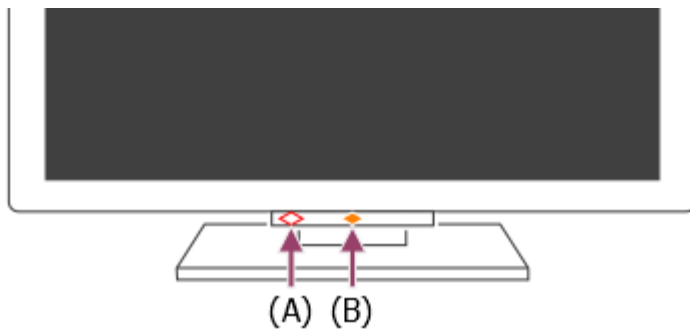
- If you do not use the CENTER SPEAKER IN terminal or the S-CENTER SPEAKER IN input, you will need to perform the following steps to prevent noise from the speakers.

Press the  (Quick Settings) button on the remote control, and disable [TV center speaker mode] in [Settings] — [Display & Sound] — [Audio output].

[6] Getting Started

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 center at the bottom of the TV.)

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

Voice function LED

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

Note

- You can use the built-in Mic on the TV when the Built-in MIC switch is on. For the location of the Built-in Mic Switch, refer to the Reference Guide supplied with the TV.
- After you press the Google Assistant/MIC button on the remote control and finish activating the built-in Mic on the TV, the voice function LED turns on in amber when the built-in Mic on the TV is off (when on, the Operational response LED turns on in amber).

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^{*})


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

Related topics

- [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](#)

[7] Getting Started

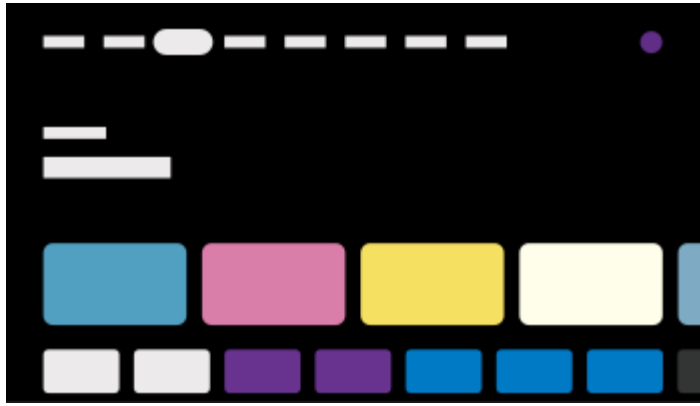
Home menu

The screen displayed when you press the HOME/ (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 behavior], and then select [Last 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](#)

[8] 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 or  (Input) button repeatedly to select the connected device. Alternatively, press the INPUT or  (Input) 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 [Input menu].

To edit the input items

- 1 Press the INPUT or  (Input) button.
- 2 Press the  (Right) button 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.

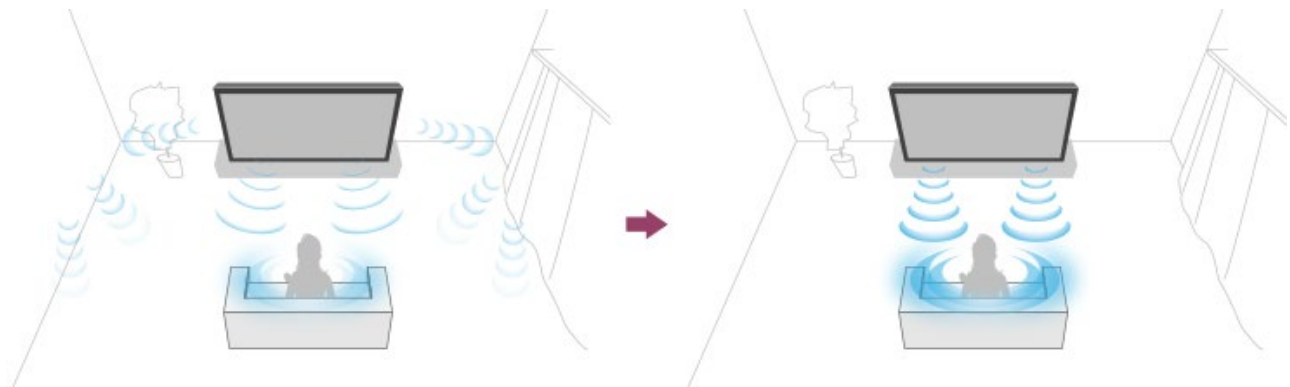
[9] Getting Started

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] — [Sound] — [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.

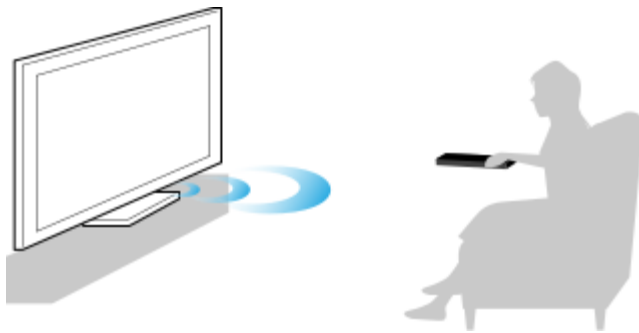
[Settings] — [Display & Sound] — [Audio output] — [Speakers] — [TV speakers]

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

[Settings] — [Display & Sound] — [Sound] — [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


[10] 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 or  (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/>

[11]

Useful features

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

[Enjoying preferred apps](#)

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

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

[12] 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 MIC button or Google Assistant button.](#)

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

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

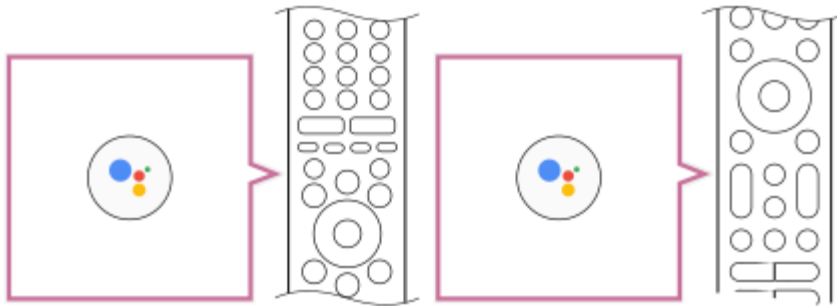
with your voice

Using the remote control microphone

Remote controls that support voice control have a Google Assistant 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 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 button.

Speech examples may be displayed depending on your model.



Search results are displayed when you speak into the microphone.

Hint

- If you press the Google Assistant or MIC button on the remote control and say “Voice hints”, information about how to speak and available voice commands will be displayed. This function may not be available depending on your model/region/country/language.

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 microphone on the remote control, you must add and set a Google Account to the TV.

[14] 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.

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/us/>

Hint

- The URL is subject to change without notice.

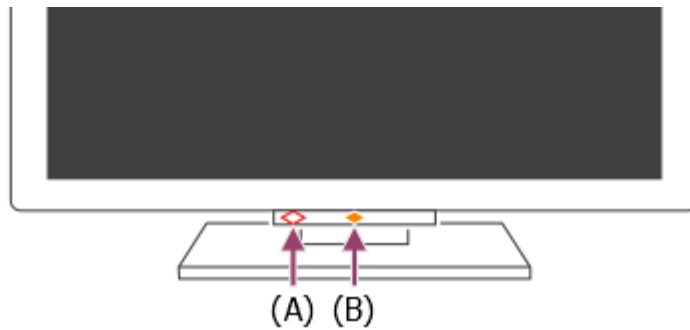
Do more on your TV using only your voice. Just start with “Hey Google” to:

- Control your TV and smart home devices
- Enjoy music and entertainment
- Get answers
- Plan your day and manage tasks



Face the TV and say, “Hey 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 center of the TV.

(B) The LED located at the bottom center of the TV lights up amber when hands-free operation is available.

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.

Note

- An Internet connection is required to use the built-in Mic on the TV.
- After turning on the built-in Mic switch on the TV, you need to press the Google Assistant/MIC 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 built-in Mic switch on the TV is enabled, 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). (Only models with the built-in MIC switch)
- With the TV's built-in mic enabled, you can say "Hey Google, Where is the remote control" to the TV to play a buzzer from the remote control. This is useful when you cannot find the remote control. For details, refer to [Finding the remote control \(only models supplied with a buzzer built-in remote control\)](#).

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.](#)

[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.

Using the built-in Mic on the TV (only TV's with a built-in Mic)

1 With the TV's built-in Mic enabled, say "Hey Google, Where is the remote control" to the TV.

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.
- The feature to find a remote control using the built-in Mic on the TV is available only to some models/countries/regions/languages.
- If your TV is connected to the Internet and you have set a Google Account, the find feature using the TV's built-in Mic will be enabled. If you have not set a Google Account, this feature will not be enabled. Depending on the model, you may not be able to find it unless the TV is turned on.
- 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.

Related topics

- [Viewing Internet content](#)

- [Accounts & Sign In](#)
- [Using the built-in Mic on the TV \(only TVs with a built-in MIC\)](#)

[18] Useful features

Enjoying safe apps and video streaming services (Security & 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 programs and videos. (Some features do not apply depending on your model/region/country.)

You can set the following [Parental controls] features so that children can safely use the TV.

- 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 use restrict features by setting the following.

To set age restrictions on programs

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

[Settings] — [System] — [Parental controls] — [Channels & External inputs] — [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.

Restrictions are set 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 restrict the installation of apps from unknown sources

If this is set, there will be fewer items displayed in the Home Menu and settings menu.

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

[Settings] — [Privacy] — [Security & Restrictions] — [Unknown sources] — change the setting in [Install unknown apps].

Note

- If you change the [Security & Restrictions] settings, your device and personal data are more vulnerable to attack by unknown apps from sources other than Play Store. You agree that you are solely responsible for any damage to your device or loss of data that may result from using these apps.
- If you forget the PIN, you must reset the TV to its original factory settings. Make sure you do not forget the PIN.

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]

Watching TV

[Watching TV programs](#)

[Useful features when watching TV](#)

[Changing the picture and sound quality to your preferences](#)

[20] Watching TV

Watching TV programs

[Using the program guide](#)

[Using the TV menu](#)

[Using interactive broadcast TV services](#)

[21] Watching TV programs | Watching TV programs

Using the program guide

You can quickly find your preferred programs.

(This function is available only for digital broadcasts and depends on your region/country/settings.)

1 Press the **GUIDE**/ (**Guide**) button to display the digital program guide.

2 Select a program to watch.
The details of the program are displayed.

3 Select **[View]** to watch the program.

Hint

- (Cable/satellite box control compatible models only) If you perform the [Cable/Satellite box control setup] setting in [Cable/Satellite box setup] under [External inputs], you can display the program guide of the cable/satellite box.

Related topics

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

[22] Watching TV programs | Watching TV programs

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 programs on other channels while watching TV.

You can add favorite channels when using the built-in tuner.



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 program you want to watch.

If you move the focus down and select [TV settings] or [Remote control], options available while you are watching will be displayed. You can also select options such as [Digital] or [Cable] to change the displayed Channel list. (The displayed options vary depending on what

you are watching.)

Hint

- To add the channel you are watching to favorites, press the  (Up) button on the remote control from the [TV menu] and add the channel to favorites from the displayed menu.
- You can use the TV button on the remote control to display the channels from the cable/satellite box.

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [TV button shortcut].

Then, select the input that is connected to the cable/satellite box.

- If you configured a cable/satellite box in the initial setup, you can press the TV button to display the channel list of the cable/satellite box.

You can also operate the cable/satellite box with the control panel displayed when you select [Remote control].

Cable/satellite box control compatible models have [Cable/Satellite box setup] in [Settings] — [Channels & Inputs] — [External inputs].

[23] Watching TV programs | Watching TV programs

Using interactive broadcast TV services

To use Ginga service (Ginga models only)

Ginga models have [Channel setup & Ginga] in [Settings] — [Channels & Inputs] — [Channels].

Ginga (also known as DTVi) Interactivity provides extended programming content information such as sports statistics, soap opera chapters and characters, publicity, merchandising, weather information and news, through high-quality digital text and graphics, along with advanced options.

If available in your home, Ginga Interactivity also allows you to communicate with the broadcaster through the return channel, in scenarios such as polls, quizzes and games. These services are provided by broadcasters.

(This function is only available for digital broadcasts and may not be available in your region/country.)



1 Select a digital channel that provides Ginga features.

[24] 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/CC

You can press the 123 (Control 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](#).

[25] Watching TV

Changing the picture and sound quality to your preferences

[Adjusting the picture quality](#)

[Adjusting the sound quality](#)

[“Sound” advanced settings](#)

[26] Changing the picture and sound quality to your preferences | Changing the picture and sound quality to your preferences

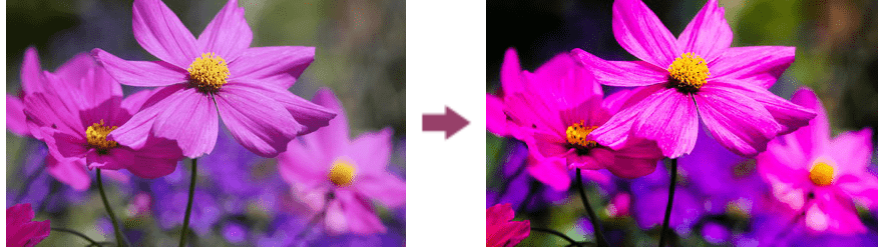
Adjusting the picture quality


You can configure various settings related to the TV display such as color 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] — the desired option.

You can change the following settings.

Picture

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

Basic

You can set the following.

Picture mode

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

Reset picture settings for ***

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

Auto picture mode

Automatically selects the picture mode based on the content being viewed.

*** 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.

Light sensor

Optimizes brightness according to ambient light.

Ambient light sensor

Automatically adjusts the brightness and color of the picture based on the surrounding ambient light.

Actual display may not be available depending on your model/country/region.

Brightness

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

Color

Adjust the color saturation level and Hue.

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] and [Clearness].

CineMotion

Optimizes 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.

Video signal

You can set the following.

HDR mode

Picture that is suitable for a High Dynamic Range signal.

HDMI video range

Select the signal range for HDMI input.

Color space

Change the color reproduction range.

Adv. color adjustment

You can set the following.

Adv. color temperature: Basic

Finely adjust the color temperature for each color.

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

Optimally preset at shipping. Use this setting for professional adjustment. When adjusting, we recommend using a color analyzer.

Per color adjustment

Adjust Hue, Saturation, and Lightness for each color.

Screen

Adjust the aspect ratio and viewable screen area.

Wide mode

Adjust the picture size.

4:3 default

Automatic sizing for 4:3 pictures.

Auto display area

Automatically adjusts the viewable screen area based on the signal.

Display area

Adjust the viewable screen area.

Screen position

Adjust the vertical and horizontal screen position.

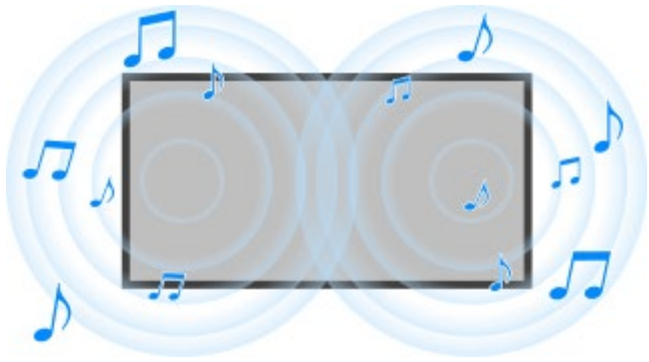
[27] [Changing the picture and sound quality to your preferences](#) | [Changing the picture and sound quality to your preferences](#)


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] — the desired option.

You can change the following settings.

Sound

Adjust settings by input such as the TV or HDMI, and other common settings, to enjoy various sound effects.

You can configure settings such as those below.

Sound mode

Select modes such as [Cinema], [Music], or [Dolby Audio] based on your environment and preferences.

Sound customization

Adjust the sound quality for each sound mode in models with Sound mode.

Volume level

Adjust the sound level of current input.

Advanced auto volume

Keeps the volume level constant for all programs and inputs.

Balance

Adjust the speaker balance.

TV position

Output sound from the TV speakers according to the position of the TV.

Acoustic auto calibration

Adjust audio output based on your viewing environment. For details, refer to [Performing acoustic auto calibration](#).

Reset

Return all sound settings to factory default settings.

Audio output

Adjust for headphones and audio system.

You can configure settings such as those below.

Speakers

Select TV or external speakers.

TV center speaker mode

Use the TV speakers as the center speaker of the home theater system.

Audio system prioritization

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

Home theater control

Turns your audio system on, and allows you to control it.

Sound mode sync

The sound field of the specified audio system will switch automatically when the TV's sound mode changes.

A/V sync

Adjust audio and video timing while using a Bluetooth A2DP audio device or a specific audio system connected with an HDMI cable.

eARC mode

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

Digital audio out

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

Digital audio out volume

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

Dolby Digital Plus output

Select output for Dolby Digital Plus for audio systems supporting Dolby Digital Plus and ARC. If you use ARC and optical audio out, select [Dolby Digital]. (Dolby Digital Plus will be muted over optical audio out.)

Pass through mode

Output audio signals to an audio system without decoding.

[28] Changing the picture and sound quality to your preferences | Changing the picture and sound quality to your preferences

“Sound” advanced settings

This page introduces various settings for the features you can configure in [Sound].

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.

[Sound mode] settings

Setting	Description
Standard	Optimize sound quality for general content.
Dialog	Suitable for spoken dialog.
Cinema	Optimize surround sound suitable for movies.
Music	Lets you experience dynamic and clear sound, like that of a concert.
Sports	Simulates the larger space of a stadium or other venue.
Dolby Audio	Output sound processed by Dolby acoustic technology.

[Sound customization]

Setting	Description
Surround	Virtually reproduce realistic surround sound.
Surround effect	Adjust the surround sound effect.
Equalizer	Adjust sound based on different frequencies.
Voice Zoom	Emphasize voice.
Dialog enhancer	Emphasize voice when [Sound mode] is set to [Dolby Audio].

[Volume level]

Setting	Description

Volume offset	Adjust the sound level of the current input relative to other inputs.
Dolby Dynamic Range	Compensates for audio level difference between channels (only for Dolby Digital audio).
MPEG audio level	Adjusts MPEG audio sound level.
HE-AAC Dynamic Range	Compensates for audio level difference between channels (only for HE-AAC audio).
HE-AAC audio level	Adjusts HE-AAC audio sound level.

Related topics

- [Adjusting the sound quality](#)

[29]

Using the TV with Other Devices

[USB devices](#)

[Blu-ray and DVD players](#)

[Cable/satellite 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](#)

[BRAVIA Sync-compatible devices](#)

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

[BRAVIA Connectivity Guide](#)

[30] 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](#)

[31] USB devices | USB devices

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/  (HOME) button, and select Apps from the Home menu, then select [Media Player].
If the supplied remote control has an APPS button, you can press the APPS button.
- 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 3.1 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.

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.](#)

[32] 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](#)

[33] [USB devices](#) | [USB devices](#)

Supported files and formats

[Photos](#)

[Music](#)

[Videos](#)

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

[External subtitles](#)

[34] [Supported files and formats](#) | [Supported files and formats](#) | [Supported files and formats](#)

Photos

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](#)

[35] [Supported files and formats](#) | [Supported files and formats](#) | [Supported files and formats](#)

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](#)

[36] Supported files and formats | Supported files and formats | Supported files and formats

Videos

Use case : USB / Home Network

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

Subtitle Type : External

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

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

Subtitle Type : External

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

MPEG2TS

Extension : *.m2t

Subtitle Type : Internal (Except for Brazilian models) / External (For Brazilian models only)

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

Extension : *.m2ts / *.mts

Subtitle Type : External

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

MP4 (*.mp4)

Subtitle Type : External

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

^{*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):** Xvid
- **Audio Codec:** MPEG1L1 / MPEG1L2 / MPEG1L3 / AC3 / E-AC3
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)

- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps
- **Video Codec (Profile@Level):** Motion JPEG
- **Audio Codec:** μ -LAW / PCM (U8) / PCM (S16LE)
- **Max. / Min. Resolution:** 1280x720 / QCIF (176x144)
- **Max. Frame Rate:** 1280x720@30fps

Asf (*.asf / *.wmv)

Subtitle Type : External

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

MKV (*.mkv)

Subtitle Type : Internal / External

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

MPEG1L2 / Vorbis

- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps
- **Video Codec (Profile@Level):** VP9 Profile 0, Profile 2
- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis

- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)

- **Max. Frame Rate:** 3840x2160@60fps

- **Video Codec (Profile@Level):** AVC / H.264 BP@L5.2, MP@L5.2, HP@L5.2

- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2

- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)

- **Max. Frame Rate:** 3840x2160@60p / 1920x1080@120fps

- **Video Codec (Profile@Level):** HEVC / H.265 MP@L5.1, Main10@L5.1

- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2

- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)

- **Max. Frame Rate:** 3840x2160@60p / 1920x1080@120fps

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

Subtitle Type : External

- **Video Codec (Profile@Level):** MPEG4 SP@L6, ASP@L5, ACEP@L4

- **Audio Codec:** AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2

- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)

- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

- **Video Codec (Profile@Level):** AVC / H.264 BP@L3, MP@L4.2, HP@L4.2

- **Audio Codec:** AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2

- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)

- **Max. Frame Rate:** 1920x1080@60fps

MOV (*.mov)

Subtitle Type : External

- **Video Codec (Profile@Level):** AVC / H.264 BP@L3, MP@L4.2, HP@L4.2

Audio Codec

: AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM (S16LE)

- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@60fps

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

- **Video Codec (Profile@Level):** Motion JPEG
- **Audio Codec:** AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 / MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM (S16LE)
- **Max. / Min. Resolution:** 1280x720 / QCIF (176x144)
- **Max. Frame Rate:** 1280x720@30fps

WebM (*.webm)

Subtitle Type : External

- **Video Codec (Profile@Level):** VP8
- **Audio Codec:** Vorbis
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

- **Video Codec (Profile@Level):** VP9 Profile 0, Profile 2
- **Audio Codec:** Vorbis
- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)
- **Max. Frame Rate:** 3840x2160@60fps

Other supported files and formats

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

[37] 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
WMA9	8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48k
DTS core	32k / 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](#)

[38] 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 \(for videos\)](#)

[39] Using the TV with Other Devices

Blu-ray and DVD players

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

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

[40] 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

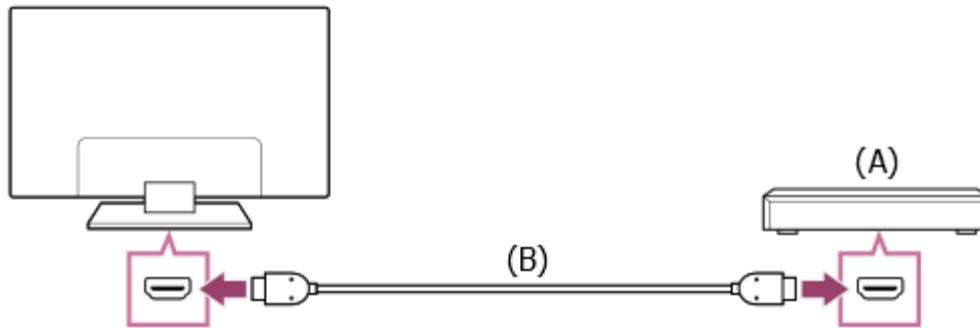
- The available terminals depend your model/region/country.

Hint

- You can also connect a cable/satellite 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.



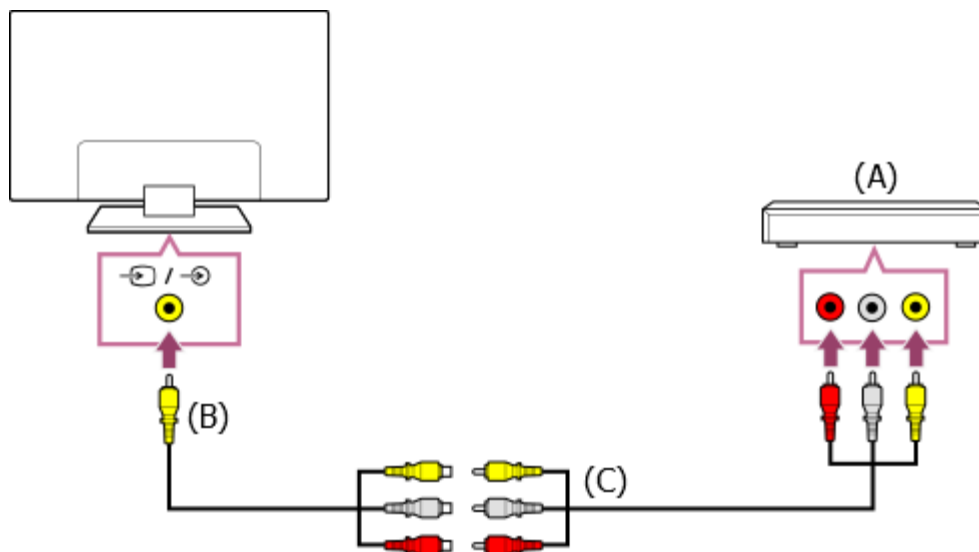
(A) Blu-ray/DVD player (same as connecting a cable/satellite box)

(B) HDMI cable (not supplied)*

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

Composite connection

If your Blu-ray/DVD player has composite jacks (sockets), connect them using a composite video/audio cable.



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

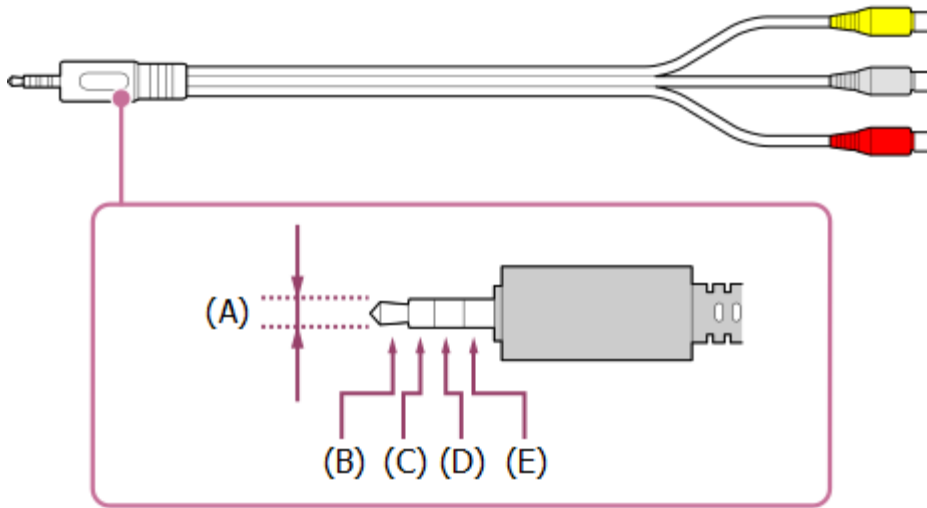
(B) Analog Extension cable (supplied)*

(C) RCA Cable (not supplied)

* Whether the Analog Extension cable is supplied depends on your model/region/country.

Cable that connects to the video input jack

The 3.5 mm jack of the Analog Extension Cable has 4 poles.



- (A) 3.5 mm
- (B) Left for Audio signal.
- (C) Video signal.
- (D) Ground.
- (E) Right for Audio signal.


Related topics

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

[41] 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 or  (Input) 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 the 123 (Control menu) button on the remote control while watching content

from the HDMI input, select [Device 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](#)

[42] Using the TV with Other Devices

Cable/satellite box

[Connecting a cable/satellite box](#)

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

[43] Cable/satellite box | Cable/satellite box

Connecting a cable/satellite box

Connect the cable/satellite 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.

[44] Cable/satellite box | Cable/satellite box

How to control the cable/satellite box using the TV remote control

Cable/satellite box control compatible models have [Cable/Satellite box setup] in [Settings] — [Channels & Inputs] — [External inputs].

Performing [Cable/Satellite box control setup] in [Cable/Satellite box setup] allows you to control a cable/satellite box using the TV's remote control.

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [External inputs] — [Cable/Satellite box setup] — [Cable/Satellite box control setup].

2 Follow the on-screen instructions.

Note

- When operating the TV's remote control, point it at the cable/satellite 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 \(such as a cable/satellite box\) cannot be controlled using the TV's remote control. \(Cable/satellite box control compatible models only\)](#)

[45] 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 favorite 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



- An Internet connection is 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 or  (Input) 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

- An internet connection is required to use AirPlay.
- Operation of a mobile device such as iPhone or iPad varies depending on the OS version.
- iPhone, iPad, AirPlay and HomeKit are trademarks of Apple Inc., registered in the U.S. and other countries.

Related topics

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

[46] 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](#)

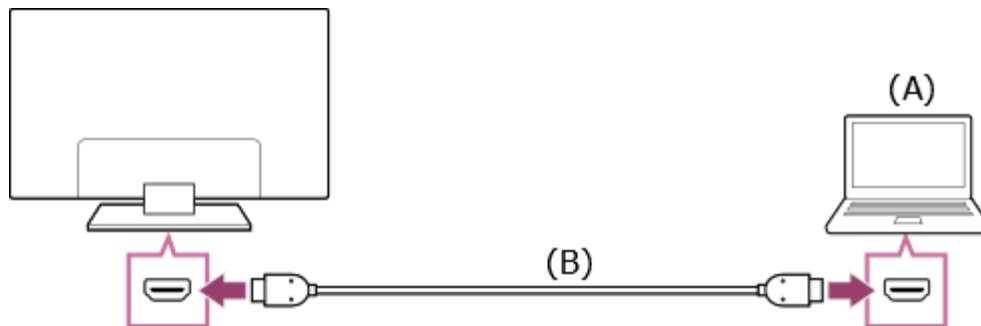
[Computer video signal specifications](#)

[47] 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 authorized 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 or  (Input) button, then select the input the computer is connected to.

To check the supported file formats

- [Supported files and formats](#)

Note

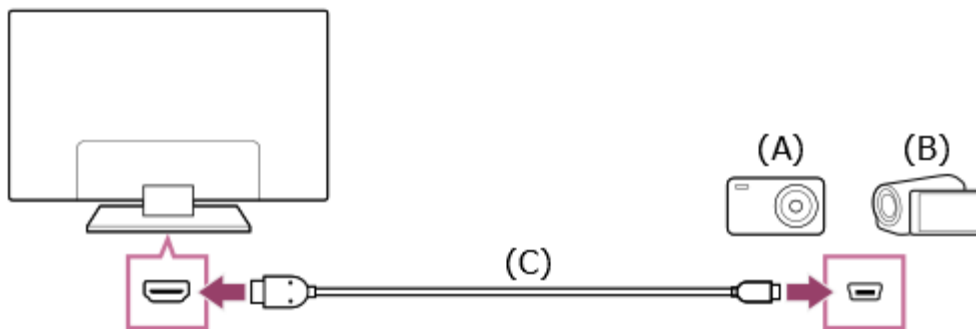
- For optimum picture quality, we recommend that you set your computer to output video signals according to one of the timings listed in “Computer video signal specifications”.
- Depending on the connection status, the image may be blurred or smeared. In this case, change the computer’s settings and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

[48] 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 authorized 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** or  (**Input**) 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](#)

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

Computer video signal specifications

(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)

* 1920 x 1080 timing, when applied to the HDMI input, will be treated as a video timing and not computer timing. This will affect the [Screen] settings in [Display & Sound]. To view computer content, set [Wide mode] to [Full], and [Display area] to [+1]. ([Display area] is configurable only when [Auto

display area] is disabled.)

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 "Supported computer input signals".

[50] 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 center speaker \(only models with TV center speaker mode\)](#)

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

[51] 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](#)

[52] 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.

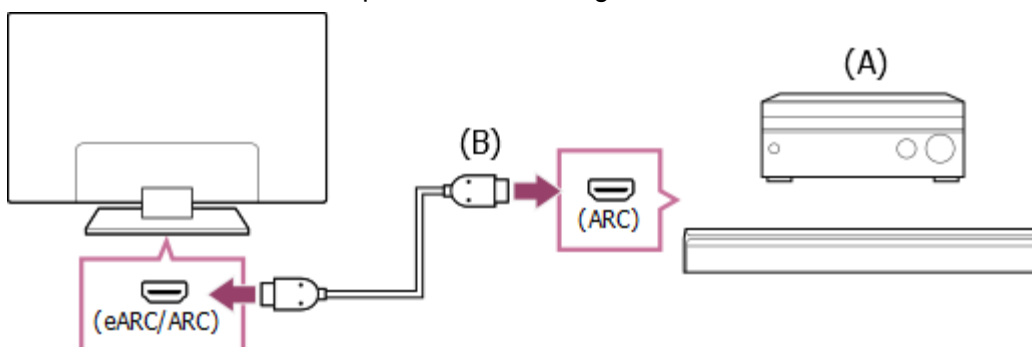
Note

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

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 authorized Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.

2 Adjusting an audio system

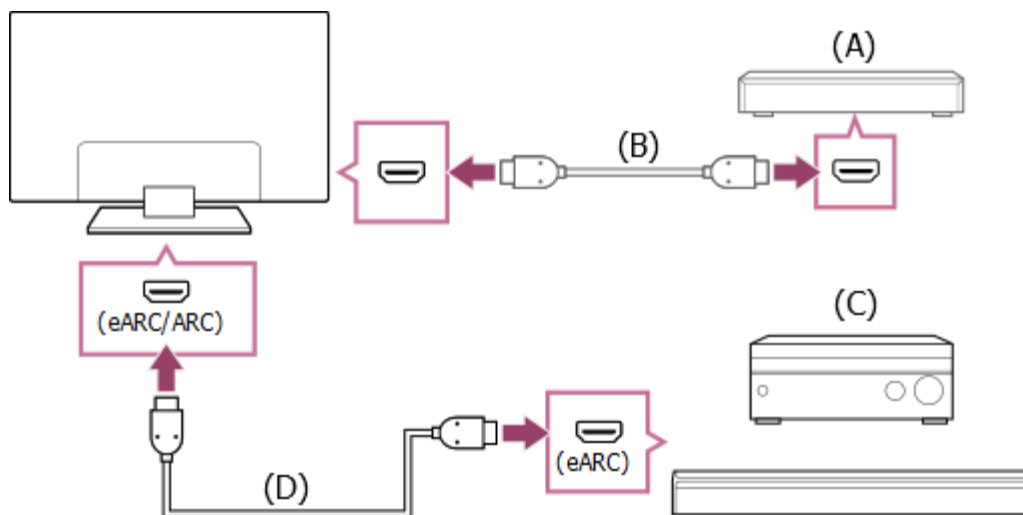
Note

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

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 authorized 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] — [eARC mode] — [Auto].
- 3 Select [Speakers] — [Audio system].

4 Enable the audio system's eARC feature.

Refer to the instruction manual of the device.

5 Adjusting an audio system

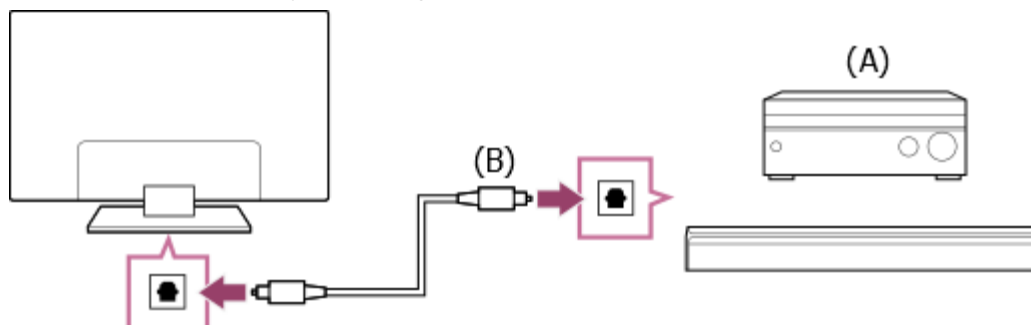
Note

- You cannot select [eARC mode] 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).

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)

2 Adjusting an audio system

Hint

- For more information, please visit the Sony support website.
[Support Site](#)

Related topics

- [No sound but good picture.](#)


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

[53] 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 out] settings according to your audio system. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Digital audio out].
- If the audio system is not compatible with Dolby Digital or DTS, set [Settings] — [Display & Sound] — [Audio output] — [Digital audio out] to [PCM].
- The [Digital audio out] 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](#)

For details about supported models, refer to the support site.

- [Support Site](#)

Related topics

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

[54] 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 center speaker (only models with TV center speaker mode)

Models with a TV center speaker mode have CENTER SPEAKER IN terminals or S-CENTER SPEAKER IN terminals on the back of the TV.


On TVs with S-CENTER SPEAKER IN input, you can use the TV as a center speaker in the following cases.

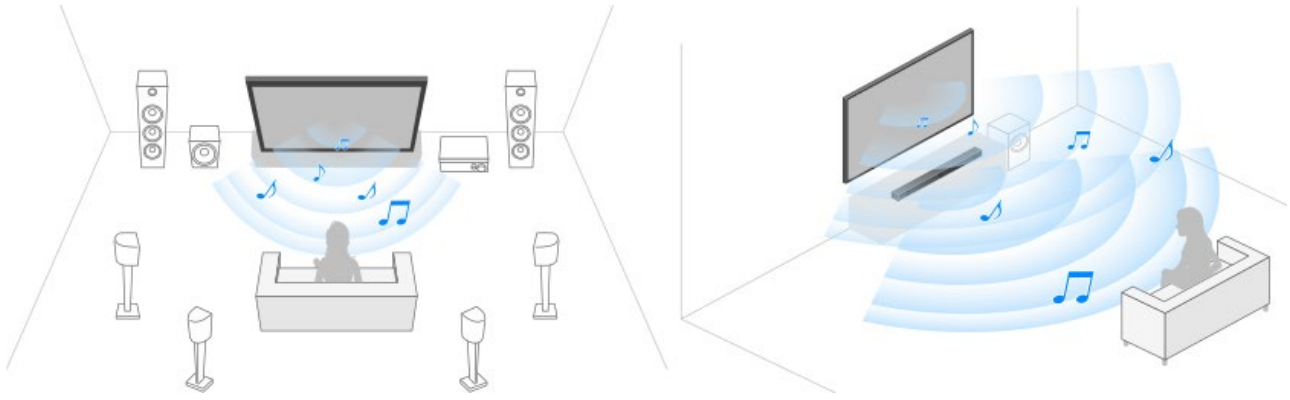
- When a sound bar with an S-CENTER OUT output/jack is connected

By using the TV as a center speaker, conversations sound natural because you can hear them from the screen and its vicinity.

Hint

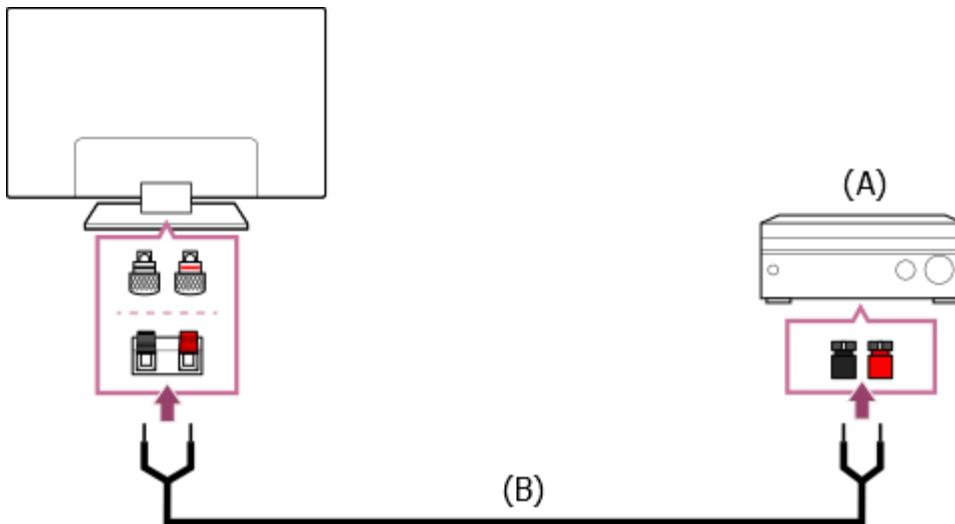
- Some models have both CENTER SPEAKER IN and S-CENTER SPEAKER IN terminals.

- 1** Connect the device to the TV while referring to “Connecting an AV receiver with a speaker cable” or “Connecting a sound bar (only models with S-CENTER SPEAKER IN terminals)” below.
- 2** Press the  (Quick Settings) button on the remote control, change [Settings] — [Display & Sound] — [Audio output] — [Speakers] to [Audio system].



Connecting an AV receiver with a speaker cable

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.

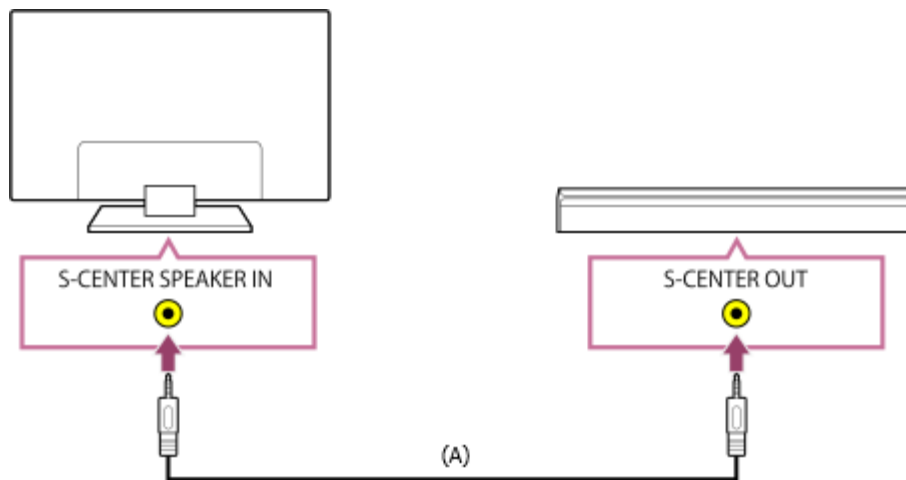
Note

- 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.

Connecting a sound bar (only models with S-CENTER SPEAKER IN terminals)

Connect the TV and sound bar with the TV center speaker mode cable supplied with sound bar/home theater system.

When a sound bar is connected, center audio is output from both the TV and sound bar, allowing you to enjoy both impactful sound from the sound bar and natural conversations.



(A) TV center speaker mode cable (supplied with 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.

Related topics

- [Connecting an audio system](#)

[55] 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 kHz 16 bits
- Dolby Digital
- Dolby Digital Plus
- DTS
- Dolby TrueHD
- DTS-HD MA
- Dolby Atmos
- DTS:X Master Audio
- MPEG2 - AAC/MPEG4 - AAC

For details, refer to the support page.

- [Support Site](#)

Related topics

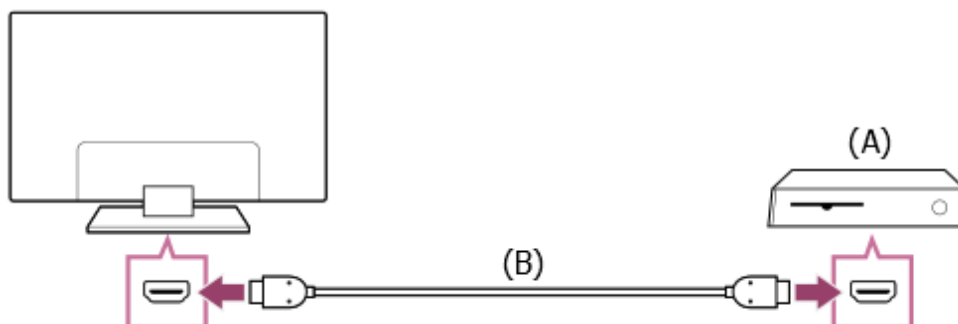
- [Connecting an audio system](#)

[56] Using the TV with Other Devices

Video game consoles

Connecting

Connect an HDMI-supported video game console to your TV with an HDMI cable.



- (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 will 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 provide documentation included with the TV.

Changing HDMI input settings


After connecting, set the connected HDMI input port.

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

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]
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, 8K)].
- If you connect a video game console that supports VRR, set to [Enhanced format (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 labeled 4K 120Hz or 4K 120Hz 8K, or connect to the HDMI input port that is displayed as [Enhanced format (4K120, 8K)]

or [Enhanced format (VRR)] for HDMI signal format].

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

Related topics

- [Connecting terminal](#)

[57] Using the TV with Other Devices

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

If you connect the transmitter to the TV, 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-3ds>

The locations of the optical digital audio output jack and USB port varies depending on the model.

Refer to the Setup Guide.

[58] Using the TV with Other Devices

Bluetooth devices

[Connecting a Bluetooth device](#)

[Adjusting the AV sync setting](#)

[Supported Bluetooth profiles](#)

[59] Bluetooth devices | Bluetooth devices


Connecting a Bluetooth device

To pair the TV with a Bluetooth device


Only for Bluetooth A2DP-supported models that can use Bluetooth audio devices such as headphones

or speakers.

Bluetooth A2DP-supported models that support Bluetooth audio devices have [A/V sync] in [Settings] — [Display & Sound] — [Audio output].

- 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 & 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.

To connect to a paired Bluetooth device

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

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.](#)


[60] Bluetooth devices | Bluetooth 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. (Only for Bluetooth A2DP-supported models that can use Bluetooth audio devices.)

Bluetooth A2DP-supported models that support Bluetooth audio devices have [A/V sync] in [Settings] — [Display & Sound] — [Audio output].

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

Hint

- You can also adjust the output timing of the picture and sound if a specific audio system is connected with an HDMI cable. For details about supported models, refer to the support site.
 - [Support Site](#)

Note

- Depending on the connected Bluetooth audio device, the picture and sound may not match even when the [A/V sync] setting is set to [On] or [Auto].
- To prevent the TV from displaying a black screen immediately after turning it on when a sound bar is connected wirelessly (Bluetooth), set the [A/V sync] setting to [On].
- If [Picture mode] is set to one of the options below, the output timing of the picture and sound is not adjusted even when the [A/V sync] setting is set to [Auto].
 - [Game]
 - [Graphics]
 - [Photo]

To adjust [A/V sync] when in any of these modes, select [On].

- 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.

[61] 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](#)

[62] Using the TV with Other Devices

BRAVIA Sync-compatible devices

[BRAVIA Sync overview](#)

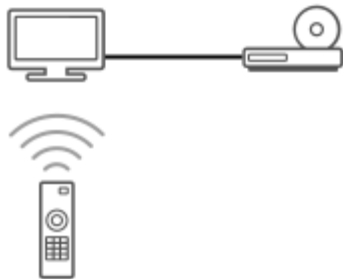
[Using features available for BRAVIA Sync-compatible devices](#)

[Adjusting BRAVIA Sync settings](#)

[63] 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](#)

[64] 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 or  (Input) 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 (VOL or  (Volume) +/- buttons) and mutes the sound (MUTE or  (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.

Note

- “BRAVIA Sync control” (BRAVIA Sync) is only available for connected BRAVIA Sync-compatible devices that have the BRAVIA Sync logo.


Related topics

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

[65] 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.)

[Device auto power off]

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

[TV auto power 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.

[Device control keys]

Allows you to set buttons to control an HDMI connected device.

Related topics

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

[66] Using the TV with Other Devices

Viewing pictures in 4K from compatible devices

[Viewing pictures in 4K resolution](#)

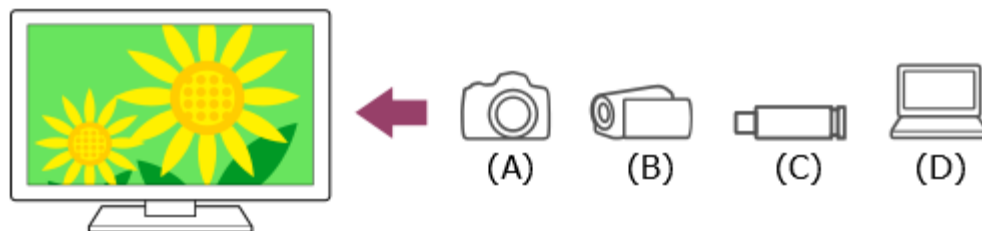
[Settings for viewing pictures through HDMI input with higher quality](#)

[67] 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/  (HOME) button, and select Apps from the Home menu, then select [Media Player].

If the supplied remote control has an APPS button, you can press the APPS button.

- 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 or  (Input) 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](#)


[68] 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] 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] — the HDMI input you want to set.

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

- Standard format
- Enhanced format
- Enhanced format (Dolby Vision)
- Enhanced format (4K120, 8K)
- Enhanced format (VRR)

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](#)

[69] 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/

[70]

Connecting to a Network

[Connecting to a network](#)

[Home network features](#)

[Viewing Internet content](#)

[71] Connecting to a Network

Connecting to a network

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

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

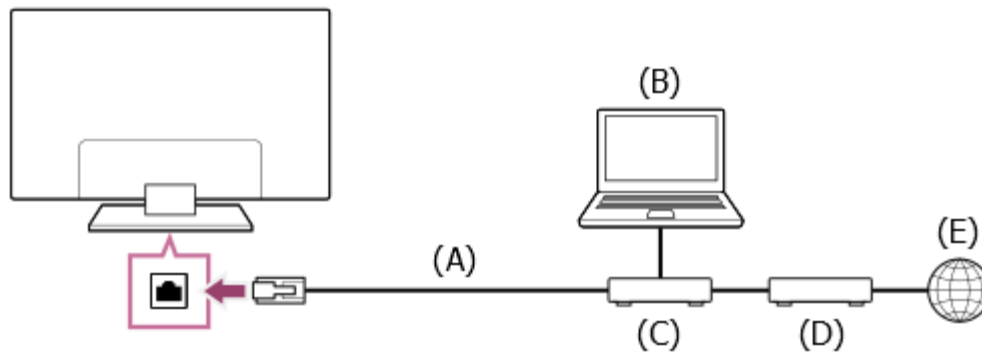
[72] Connecting to a network | Connecting to a network

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](#)

[73] Connecting to a network | Connecting to a network

Connecting to a network using a wireless connection

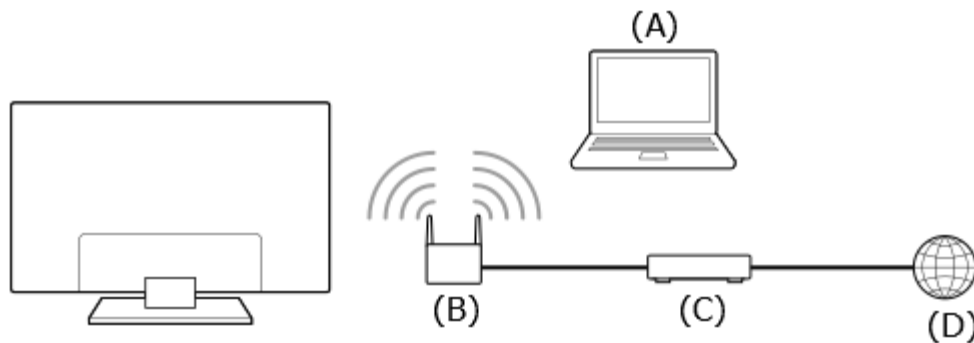
[Using Wi-Fi to connect the TV to the Internet/Network](#)

[Using Wi-Fi Direct to connect to the TV \(no wireless router required\)](#)

[74] 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 & 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 & 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 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](#)

Using Wi-Fi Direct to connect to the TV (no wireless router required)

- [Home network features](#)

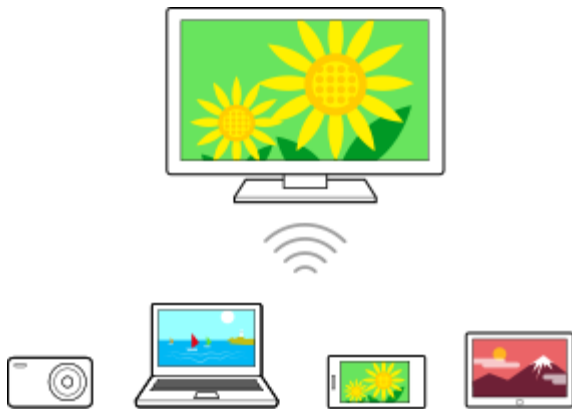
[75] Connecting to a network using a wireless connection | Connecting to a network using a wireless connection | Connecting to a network using a wireless connection


Using Wi-Fi Direct to connect to the TV (no wireless router required)

You can connect a device to the TV wirelessly, without using a wireless router, and then stream videos, photos, and music that is stored on your device directly to the TV.

Note

- Wi-Fi Direct connects smartphones and computers directly to the TV instead of through the Internet, so streaming video content that requires an Internet connection cannot be played back on the TV.



- 1** Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network & Internet] — [Wi-Fi Direct] — [Wi-Fi Direct settings].
- 2** Select the TV name displayed on the TV screen with the Wi-Fi Direct device.
If the device does not support Wi-Fi Direct, select the [Show Network (SSID)/Password].
- 3** Operate the Wi-Fi Direct/Wi-Fi device to connect with the TV.
- 4** Send content from the Wi-Fi Direct/Wi-Fi device to the TV.
For details, refer to the instruction manual of the device.


If connection is not successful

When the standby screen for the Wi-Fi Direct setting is displayed, select [Show Network (SSID)/Password] and follow the on-screen instructions to complete the set-up.


To connect another device


Follow the steps above to connect devices. Up to 10 devices can be connected at the same time. To connect another device when 10 devices are already connected, disconnect an unnecessary device, then connect the other device.

To change the name of the TV shown on the connected device

Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — [About] — [Device name].

To list connected devices/deregister devices

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network & Internet] — [Wi-Fi Direct] — [Show device list/Delete].

To deregister a device, select the device in the list to delete, then press the  (Enter) button. Then, select [Yes] on the confirmation screen.

To deregister all devices, select [Delete all] in the list, then [Yes] in the confirmation display.

[76] Connecting to a Network

Home network features

[Adjusting home network settings](#)

[Playing content from a computer](#)


[Playing content from a media server](#)

[77] Home network features | Home network features


Adjusting home network settings

You can adjust the following home network settings.

To check the server connection

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

To use the renderer function

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

[Renderer]


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 [Auto 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 & Internet] — [Remote device settings] — the desired option.

[Control remotely]

Enable operation of the TV from a registered device.

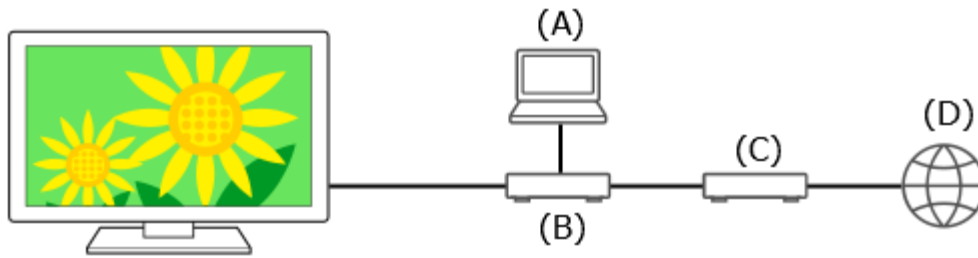
[Deregister remote device]

Deregister a device to disable operation of the TV from that device.

[78] Home network features | Home network features

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/🏠(HOME) button, and select Apps from the Home menu, then select [Media Player].
If the supplied remote control has an APPS button, you can press the APPS button.
- 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.

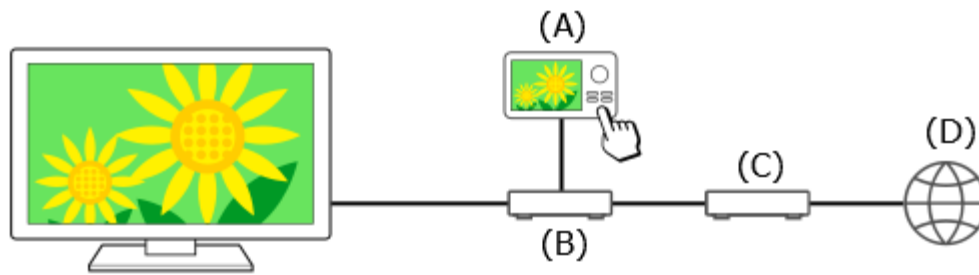
Related topics

- [Adjusting home network settings](#)

[79] Home network features | Home network features

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](#)

[80] 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 & Sign In](#)
- [Enjoying safe apps and video streaming services \(Security & Restrictions\)](#)
- [Connecting to a network using a LAN cable](#)
- [Using Wi-Fi to connect the TV to the Internet/Network](#)
- [Home menu](#)

[81]

Settings

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

[Using the Quick Settings](#)

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

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

[Network & Internet](#)

[Accounts & Sign In Configure the Google Account or add other accounts.](#)

[Privacy You can restrict installation of apps from unknown sources.](#)

[Apps](#)

[System Date & Time, Language, Sound, Accessibility, Parental controls and LED indicator, etc.](#)


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

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

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

[82] Settings

Using the Quick Settings


If you press the  (Quick Settings) button on the remote control, you can quickly access features such as [Picture mode], [Sleep timer], and [Picture Off] on the current screen, and settings such as [Audio output] 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.

[83] 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.

[Preferences (Channels)]


Configures [Captions].

[Info banner]

Display program information when channel is changed.

[EWBS Auto-On]

Broadcast signal may transmit emergency information and notify users by powering on the TV when the TV is in standby/networked standby mode.

To enable this feature, select [On] in [EWBS Auto-On] screen during Initial Setup or press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Preferences (Channels)] — [EWBS Auto-On] to change the settings.

Note

- The power consumption will increase if [On] is set.
 - The availability of this function depends on your region/country.
-

[External inputs]

Configures the settings of the external inputs and BRAVIA Sync.

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


[TV button shortcut]

If an external input such as a connected tuner is set, it will be displayed when the TV button on the remote control is pressed.

[84] Settings

Display & Sound



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

Available options

[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.

[Screen]

Adjusts the screen size and position.

[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.

[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 \(only models equipped with an OLED panel\)](#).

[85] Settings

Network & Internet

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

Related topics

- [Connecting to a Network](#)
-

[86] Settings

Accounts & Sign In

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

[Accounts & 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 & Sign In] cannot be used. To set a Google Account, set up Google TV from the settings menu.

[87] Settings

Privacy

You can restrict the installation of apps from unknown sources.

[88] Settings

Apps

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

Related topics

- [Installing apps](#)

[89] 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 & 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 & Energy]

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

[Cast]

Configures the operation permissions when casting from an external device.

[Restart]

Restarts the TV.

[Parental controls]

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

[Region]

Sets your location to receive region-specific information. (This option may not be available depending on your region/country.)

[LED indicator]

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

[Sound]

Configures the [System sounds] setting.

[Apple AirPlay & HomeKit]

Configures the settings for Apple AirPlay & HomeKit.

[Picture adjustments lock]

Locks the picture adjustments to prevent them from being changed. (This option may not be available depending on your region/country.)

[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.

* Only TVs with a built-in MIC

[90] Settings

Remotes & Accessories

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

[Remote control]

Setup for pairing the Voice Remote Control.

Related topics

- [Bluetooth devices](#)
- [Remote control](#)
- [Using the remote control microphone](#)

[91] Settings

Help & Feedback




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

[92] Settings

Timers & Clock


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

Adding Timers & Clock to the input selection screen

- 1** Press the **INPUT** or  (Input) 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** or  (Input) button on the remote control and select the following.

 (Timers & Clock icon) — the desired setting

Available options

[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](#)

[93]

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](#)

[94] Troubleshooting

Start here

[Self diagnostics](#)

[Software updates](#)



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

[Frequently Asked Questions for Troubleshooting](#)

[95] [Start here](#) | [Start here](#)

Self diagnostics

Check if the TV is working properly.

- 1 Press INPUT or  (Input) 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](#)
-



[96] [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 or  (Input) on the remote control and select [Help]. If [Help] does not exist, select  [Edit] and add [Help].
- 2 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. Use your computer to download the latest software from the Sony support website onto a USB storage device. Insert the USB storage device to a USB port on the TV and the software update will start automatically.

If you will update the TV software by using a USB storage device, you should read the cautions for update by USB storage device on the website.

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

Related topics

- [Connecting to a Network](#)

[97] 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.

[98] 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/>

[99] Troubleshooting

Picture (quality)/screen

No color/Dark picture/Color 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)

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

No color/Dark picture/Color is not correct/Picture is too bright.


- Check the antenna/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] to make adjustments.

For details, refer to [Adjusting the picture quality](#) page.

- Press the  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 [%1]][[%2]]. 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] — [Brightness], and adjust [Brightness] or [Contrast].

Related topics

- [Display & Sound](#)



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

Distorted picture./The screen flickers.

Check the connection and position of the antenna and peripheral devices

- Check the antenna/cable connection.
- Keep the antenna/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 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] — [Motion] — [Motionflow] — [Off].
- Change the current setting of [CineMotion] to [Off].
Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture] — [Motion] — [CineMotion].

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

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] — 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.

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

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)

[104] 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 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.
-

[105] 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 (50°F) and 40°C (104°F) 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.

[106] 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 colors easily cause image retention. Avoid displaying these types of images for long periods of time, otherwise image retention may occur.

[107] 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 (50°F) and 40°C (104°F) 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.

[108] 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/  (BACK) button on the remote control.

[109] Troubleshooting

Broadcast reception

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

[You cannot view digital channels.](#)

[You cannot receive or select channels.](#)

[110] Broadcast reception | Broadcast reception

Check these things first to troubleshoot your TV reception.

- Make sure that the antenna cable is firmly connected to the TV.
 - Make sure that the antenna cable is not loose or disconnected.
 - Make sure that the cable or cable connector of antenna 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](#)
-

[111] Broadcast reception | Broadcast reception

You cannot view digital channels.



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

Related topics

- [Check these things first to troubleshoot your TV reception.](#)
- [You cannot receive or select channels.](#)

[112] Broadcast reception | Broadcast reception

You cannot receive or select channels.

- Perform [Auto program] to add receivable channels to the TV memory.
Press the  (Quick Settings) button, then select [Settings] — [Channels & Inputs] — [Channels] — [Cable/Antenna] — [Auto program].
- Check that [Signal type] is set correctly.
Press the  (Quick Settings) button, then select [Settings] — [Channels & Inputs] — [Channels] — [Cable/Antenna] — [Signal type].

[Antenna]

Set to receive and select antenna channels.

[Cable]

Set to receive and select cable channels.

Related topics

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

[113] Troubleshooting

Sound

[No sound but good picture.](#)

[No audio or low audio with a home theater 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 \(only TVs with a built-in MIC\).](#)

[114] Sound | Sound

No sound but good picture.


- Check the antenna/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  (Mute) or VOL or  (Volume) + button to cancel muting.
- Press the  (Quick Settings) button, then select [Audio output] — [TV speakers].
- If headphones or Bluetooth audio devices are connected, sound is not output from the TV speakers or audio system connected via eARC/ARC. Remove the headphones or disconnect the Bluetooth audio device.

Related topics

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

[115] Sound | Sound

No audio or low audio with a home theater 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] — [Digital audio out] to [PCM].
- Check if the [Digital audio out volume] setting of the TV is at maximum.

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

[Settings] — [Display & Sound] — [Audio output] — [Digital audio out 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](#)

[116] 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 cannot 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 out] to [PCM]

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


[117] 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] — [A/V sync].

If a specific audio system is connected with an HDMI cable

You can adjust the output timing of the picture and sound. For details about supported models, refer to the support site.

- [Support Site](#)

Related topics


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

[118] Sound | Sound


No TV sounds such as operation sound or audio response.

If the TV is connected via eARC or [Pass through mode] is set to [Auto], 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 mode] to [Off].

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

- Set [Pass through mode] to [Off].

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Pass through mode] — [Off].

[119] Sound | Sound

You cannot establish an eARC connection.

- [eARC mode] 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] — [eARC mode] — [Auto]

[Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system]

- Enable the audio system's eARC feature.

Related topics

- [Connecting an audio system](#)

[120] Sound | Sound

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

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 [Pass through mode] is set to [Auto]

[121] 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.

[122] 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 & 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 & 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 & Internet] — [Network status].

Related topics

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

[123] 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] — enable [Automatic date & time] in [System] — [Date & 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](#)

[124] Troubleshooting

Remote control/accessories

The remote control does not operate.

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

[125] Remote control/accessories | Remote control/accessories

The remote control does not operate.

Check if the TV is working properly

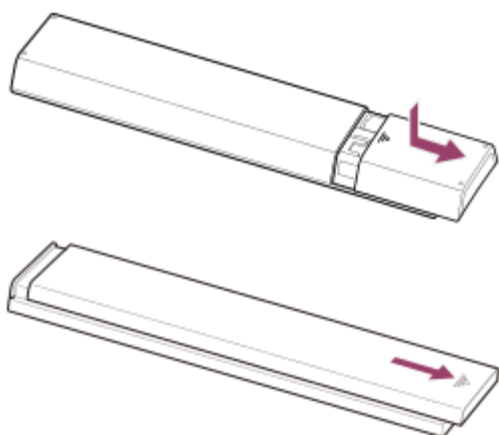
- Press the power button on the TV to determine if the problem is with the remote control or not. For the location of the power button, refer to the Reference Guide supplied with the TV.
- If the TV is not working, try resetting it.

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

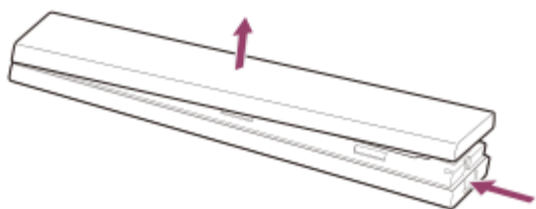
Check if the remote control is working properly

- 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 MIC button or Google Assistant 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 (IEEE802.11b/g/n).
 - 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 & 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 (IEEE802.11a) 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 & 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 initialize the system. Wait for about 10 to 20 seconds, then try again.



Related topics

- [Using the remote control microphone](#)

[126] 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 VOL or  (Volume) - button and HOME/  (HOME) button on the remote control at the same time 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.

[127] 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.](#)

[128] Power | Power

The TV cannot be turned off using the remote control.

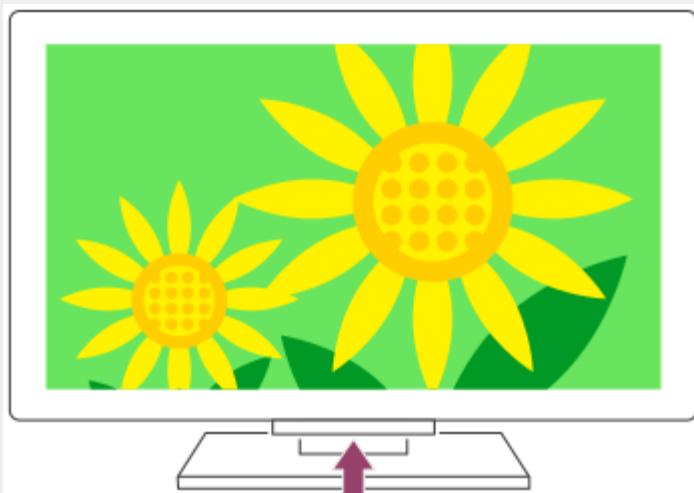
The batteries in the remote control may be depleted. Replace them with new ones or turn off the TV using the power button on the TV.

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](#)

[129] Power | Power

The TV turns off automatically.

- The screen may have been turned off due to [Sleep timer] settings.
- Check the [Duration] setting of [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 & Energy] —  — [Turn off TV after]

(US, CA and MX models only) Check if [Auto shut-off] in [Power & Energy] is activated.

Related topics

- [Timers & Clock](#)

[130] Power | Power

The TV turns on automatically.

- Check if the [Timer] is activated.
- Disable the [TV auto power on] setting in [BRAVIA Sync settings].

Related topics

- [BRAVIA Sync-compatible devices](#)
- [Timers & Clock](#)

[131] 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.

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 initialize 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](#)

[132] 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 cable/satellite box using the TV's remote control.](#)


[An external device \(such as a cable/satellite box\) cannot be controlled using the TV's remote control.](#)


[\(Cable/satellite box control compatible models only\)](#)

[Operation cuts out, or a device does not work.](#)

[133] 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 or  (Input) 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] — the HDMI input you want to set.

Related topics

- [Using the TV with Other Devices](#)

[134] Connected devices | Connected devices

You cannot select a connected device.

- Check the cable connection.

Related topics

- [Using the TV with Other Devices](#)

[135] 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](#)

[136] Connected devices | Connected devices

You cannot turn off the cable/satellite box using the

TV's remote control.

Cable/satellite box control compatible models have [Cable/Satellite box setup] in [Settings] — [Channels & Inputs] — [External inputs].

[137] Connected devices | Connected devices

An external device (such as a cable/satellite box) cannot be controlled using the TV's remote control. (Cable/satellite box control compatible models only)

Cable/satellite box control compatible models have [Cable/Satellite 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 cable/satellite box using the TV remote control](#)

[138] 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](#)

[139] Troubleshooting

LED

You want to disable the LED so that it does not light up or blink.


The Operational response LED blinks in red.

[140] 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 Operational response LED (amber LED)/voice function LED (amber LED) (only TVs with a built-in MIC)

To turn off the amber voice function LED when the Built-in MIC switch is turned off, or to turn off the amber operational response LED when the Built-in MIC switch is on, in [Settings] — [System] — [LED indicator], disable [Voice detection status].

Related topics

- [How the LEDs light up](#)

[141] 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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Using 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.

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.

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

- To see if your TV is equipped with one of the functions described in the Help Guide, refer to the Reference Guide or the Sony website.
- 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](#)

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:

- USA:
<https://www.sony.com/tvsupport>
- Canada:
<https://www.sony.ca/support>
- Brazil:
<https://esupport.sony.com/BR/>
- Latin America:
<https://esupport.sony.com/ES/LA/>
- Philippines:
<https://www.sony-asia.com/support/>

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Keeping the TV updated

The TV acquires data such as program 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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-

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
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BRAVIA Connectivity Guide



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
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
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
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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** or (Input) on the remote control and select **[Help]**. If **[Help]** does not exist, select **[Edit]** and add **[Help]**.
- 2 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. Use your computer to download the latest software from the Sony support website onto a USB storage

device. Insert the USB storage device to a USB port on the TV and the software update will start automatically.

If you will update the TV software by using a USB storage device, you should read the cautions for update by USB storage device on the website.

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

Related topics

- [Connecting to a Network](#)



> [Troubleshooting](#) > [Start here](#) > Software updates

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
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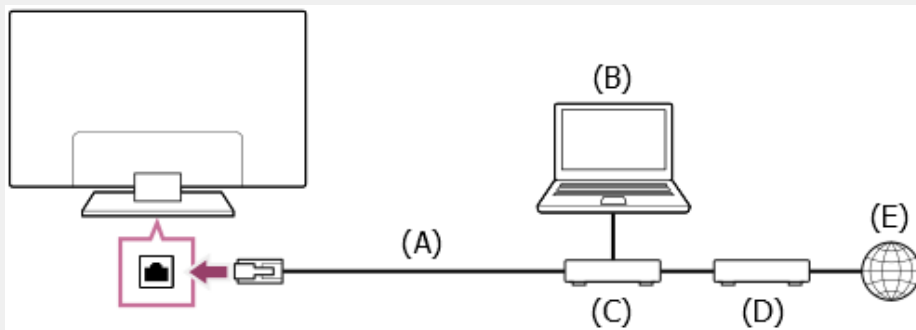
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Connecting to a network using a LAN cable

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](#)



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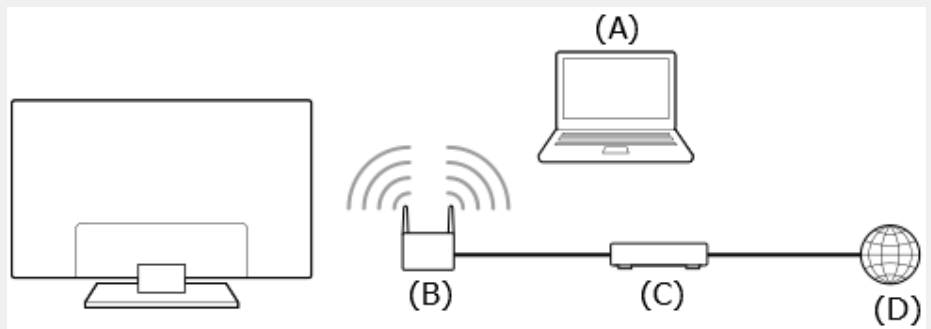
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Using Wi-Fi to connect the TV to the Internet/Network

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 & 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 & 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 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](#)
- [Using Wi-Fi Direct to connect to the TV \(no wireless router required\)](#)
- [Home network features](#)



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

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

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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 MIC button or Google Assistant button.

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

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Enjoying preferred apps

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

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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.

Using the built-in Mic on the TV (only TV's with a built-in Mic)

- 1 With the TV's built-in Mic enabled, say “Hey Google, Where is the remote control” to the TV.

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.
- The feature to find a remote control using the built-in Mic on the TV is available only to some models/countries/regions/languages.
- If your TV is connected to the Internet and you have set a Google Account, the find feature using the TV's built-in Mic will be enabled. If you have not set a Google Account, this feature will not be enabled. Depending on the model, you may not be able to find it unless the TV is turned on.
- 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.

Related topics

- [Viewing Internet content](#)
- [Accounts & Sign In](#)
- [Using the built-in Mic on the TV \(only TVs with a built-in MIC\)](#)



> [Useful features](#)

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

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Enjoying safe apps and video streaming services (Security & 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 programs and videos. (Some features do not apply depending on your model/region/country.)

You can set the following [Parental controls] features so that children can safely use the TV.

- 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 use restrict features by setting the following.

To set age restrictions on programs

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

[Settings] — [System] — [Parental controls] — [Channels & External inputs] — [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.

Restrictions are set 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 restrict the installation of apps from unknown sources

If this is set, there will be fewer items displayed in the Home Menu and settings menu.

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

[Settings] — [Privacy] — [Security & Restrictions] — [Unknown sources] — change the setting in [Install unknown apps].

Note


- If you change the [Security & Restrictions] settings, your device and personal data are more vulnerable to attack by unknown apps from sources other than Play Store. You agree that you are solely responsible for any damage to your device or loss of data that may result from using these apps.
- If you forget the PIN, you must reset the TV to its original factory settings. Make sure you do not forget the PIN.

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].



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> [Enjoying safe apps and video streaming services \(Security & Restrictions\)](#)

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> [Settings](#) > Using the Quick Settings[Print](#)


Using the Quick Settings

If you press the  (Quick Settings) button on the remote control, you can quickly access features such as [Picture mode], [Sleep timer], and [Picture Off] on the current screen, and settings such as [Audio output] 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.



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> [Settings](#) > Channels & Inputs[Print](#)

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.

[Preferences (Channels)]


Configures [Captions].

[Info banner]

Display program information when channel is changed.

[EWBS Auto-On]

Broadcast signal may transmit emergency information and notify users by powering on the TV when the TV is in standby/networked standby mode.

To enable this feature, select [On] in [EWBS Auto-On] screen during Initial Setup or press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Preferences (Channels)] — [EWBS Auto-On] to change the settings.

Note

- The power consumption will increase if [On] is set.
- The availability of this function depends on your region/country.

[External inputs]

Configures the settings of the external inputs and BRAVIA Sync.
For details about BRAVIA Sync, refer to [BRAVIA Sync-compatible devices](#).

[TV button shortcut]

If an external input such as a connected tuner is set, it will be displayed when the TV button on the remote control is pressed.



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Display & Sound

1

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

Available options

[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.

[Screen]

Adjusts the screen size and position.

[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.

[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 \(only models equipped with an OLED panel\)](#).

> [Settings](#) > Display & Sound



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 > [Settings](#) > Network & Internet

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Network & Internet

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

Related topics

- [Connecting to a Network](#)


 > [Settings](#) > Network & Internet

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Accounts & Sign In

1

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Accounts & 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 & Sign In] cannot be used. To set a Google Account, set up Google TV from the settings menu.

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> [Settings](#) > Privacy

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Privacy

You can restrict the installation of apps from unknown sources.



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
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
 > [Settings](#) > [Apps](#)[Print](#)

Apps

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

Related topics


- [Installing apps](#)

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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 & 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 & Energy]

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

[Cast]

Configures the operation permissions when casting from an external device.

[Restart]

Restarts the TV.

[Parental controls]

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

[Region]

Sets your location to receive region-specific information. (This option may not be available depending on your region/country.)

[LED indicator]

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

[Sound]

Configures the [System sounds] setting.

[Apple AirPlay & HomeKit]

Configures the settings for Apple AirPlay & HomeKit.

[Picture adjustments lock]

Locks the picture adjustments to prevent them from being changed. (This option may not be available depending on your region/country.)

[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.

* Only TVs with a built-in MIC



> [Settings](#) > System

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Remotes & Accessories

1

Press the  (Quick Settings) button on the remote control, then select **[Settings] — [Remotes & 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.

[Remote control]

Setup for pairing the Voice Remote Control.

Related topics

- [Bluetooth devices](#)
- [Remote control](#)
- [Using the remote control microphone](#)

[Settings](#) > [Remotes & Accessories](#)[Go to page top](#)

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Help & Feedback

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

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Timers & Clock

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

Adding Timers & Clock to the input selection screen

- 1 Press the INPUT or  (Input) 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 or  (Input) button on the remote control and select the following.**
 (Timers & Clock icon) — the desired setting

Available options

[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](#)



> [Settings](#) > Timers & Clock

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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

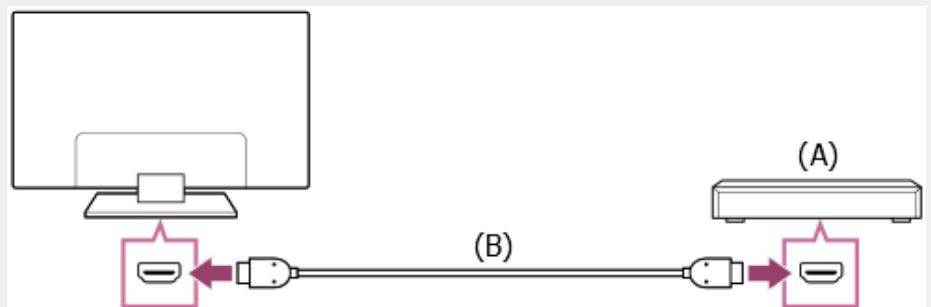
- The available terminals depend your model/region/country.

Hint

- You can also connect a cable/satellite 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.



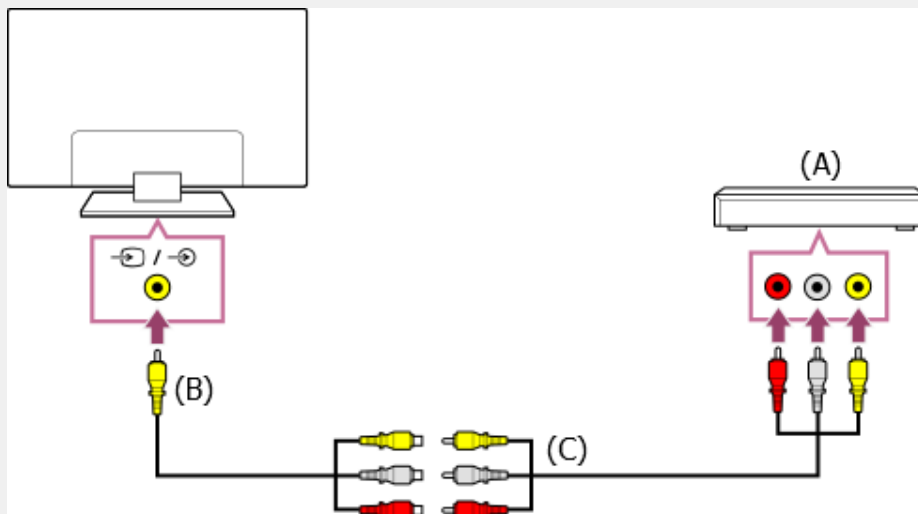
(A) Blu-ray/DVD player (same as connecting a cable/satellite box)

(B) HDMI cable (not supplied)*

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

Composite connection

If your Blu-ray/DVD player has composite jacks (sockets), connect them using a composite video/audio cable.



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

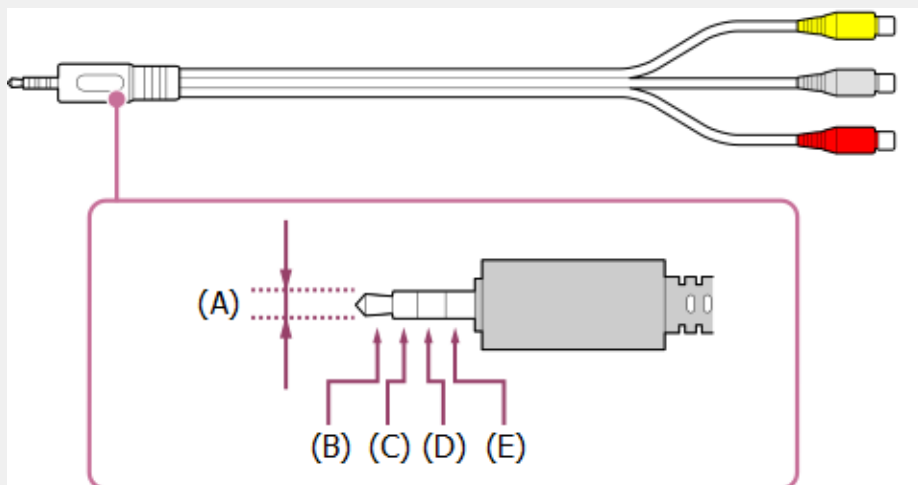
(B) Analog Extension cable (supplied)*

(C) RCA Cable (not supplied)

* Whether the Analog Extension cable is supplied depends on your model/region/country.

Cable that connects to the video input jack

The 3.5 mm jack of the Analog Extension Cable has 4 poles.



(A) 3.5 mm

(B) Left for Audio signal.

(C) Video signal.

(D) Ground.

(E) Right for Audio signal.

Related topics

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



> [Using the TV with Other Devices](#) > [Blu-ray and DVD players](#)

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

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[Using the TV as a center speaker \(only models with TV center speaker mode\)](#)

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



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Connecting an audio system

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

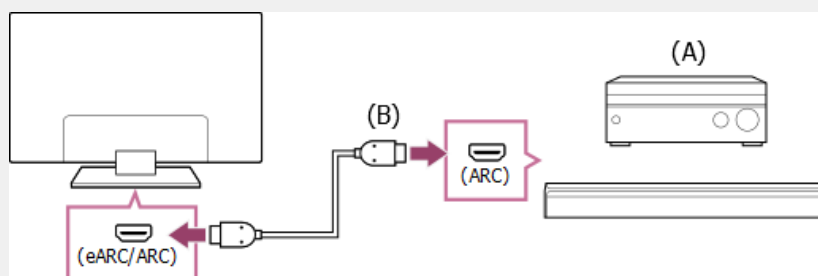
Note

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

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 authorized Premium High Speed HDMI™ Cable(s) bearing the HDMI logo.

2 [Adjusting an audio system](#)

Note

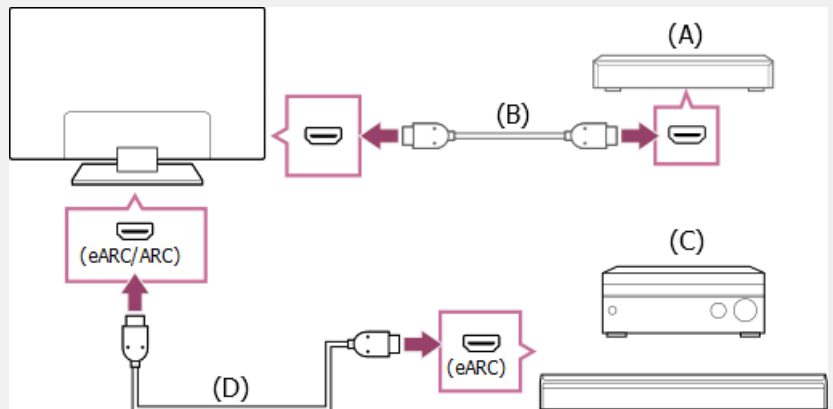
- For ARC connections, voice recognition performance may degrade

(only TVs with a built-in MIC).

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 authorized 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] — [eARC mode] — [Auto].**
- 3 **Select [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 mode] if the text-to-speech function for

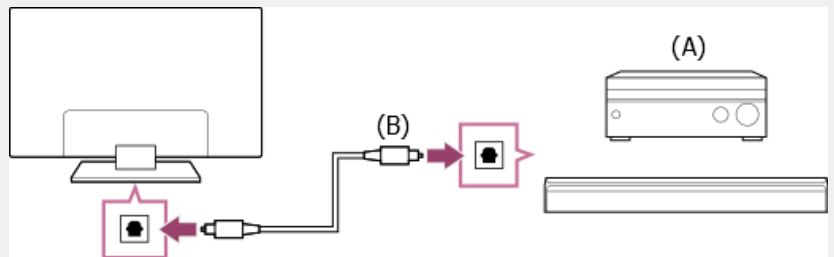
on-screen text within the TV's accessibility features is enabled.

- 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).

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)

2 Adjusting an audio system

Hint

- For more information, please visit the Sony support website.
[Support Site](#)

Related topics

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



> [Using the TV with Other Devices](#)

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Upper buttons on the remote control

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

- [Lower buttons on the remote control](#)



 **(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.

 **(Input)**

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

123 (Control menu)


Display a menu on the TV to use button functions that are not on the remote control on the screen.

 **(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.

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



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> Lower buttons on the remote control

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Lower buttons on the remote control

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

- [Upper buttons on the remote control](#)

**+/- (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).

CH +/- (Channel)

Select the channel.

 (Play) / (Pause)

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

 (Guide)

Display the digital program guide of the TV or

cable/satellite box. For details, refer to [Using the program guide](#) page.

 /  **(Online service)**

Enjoy various video streaming services with one push. Press to watch your desired service.

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



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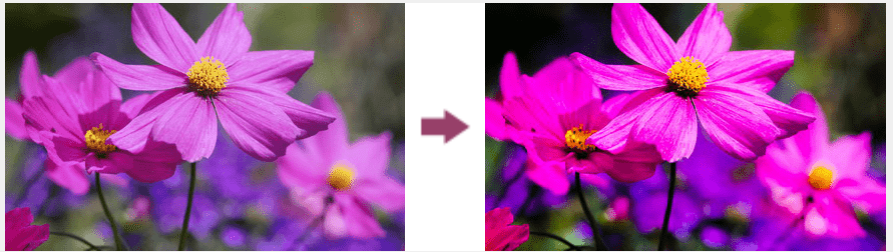
> [Watching TV](#)> [Changing the picture and sound quality to your preferences](#)> [Adjusting the picture quality](#)[Print](#)


Adjusting the picture quality

You can configure various settings related to the TV display such as color 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] — the desired option.

You can change the following settings.

Picture

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

Basic

You can set the following.

Picture mode

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

Reset picture settings for ***

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

Auto picture mode

Automatically selects the picture mode based on the content being viewed.

***** 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.

Light sensor

Optimizes brightness according to ambient light.

Ambient light sensor

Automatically adjusts the brightness and color of the picture based on the surrounding ambient light.

Actual display may not be available depending on your model/country/region.

Brightness

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

Color

Adjust the color saturation level and Hue.

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] and [Clearness].

CineMotion

Optimizes 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.

Video signal

You can set the following.

HDR mode

Picture that is suitable for a High Dynamic Range signal.

HDMI video range

Select the signal range for HDMI input.

Color space

Change the color reproduction range.

Adv. color adjustment

You can set the following.

Adv. color temperature: Basic

Finely adjust the color temperature for each color.

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

Optimally preset at shipping. Use this setting for professional adjustment. When adjusting, we recommend using a color analyzer.

Per color adjustment

Adjust Hue, Saturation, and Lightness for each color.

Screen

Adjust the aspect ratio and viewable screen area.

Wide mode

Adjust the picture size.

4:3 default

Automatic sizing for 4:3 pictures.

Auto display area

Automatically adjusts the viewable screen area based on the signal.

Display area

Adjust the viewable screen area.

Screen position

Adjust the vertical and horizontal screen position.



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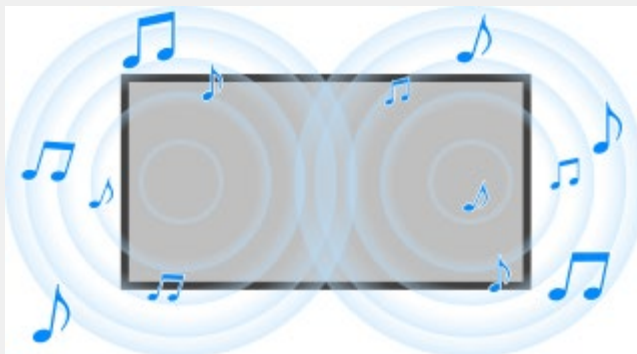
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Adjusting the sound quality

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] — the desired option.

You can change the following settings.

Sound

Adjust settings by input such as the TV or HDMI, and other common settings, to enjoy various sound effects.

You can configure settings such as those below.

Sound mode

Select modes such as [Cinema], [Music], or [Dolby Audio] based on your environment and preferences.

Sound customization

Adjust the sound quality for each sound mode in models with Sound mode.

Volume level

Adjust the sound level of current input.

Advanced auto volume

Keeps the volume level constant for all programs and inputs.

Balance

Adjust the speaker balance.

TV position

Output sound from the TV speakers according to the position of the TV.

Acoustic auto calibration

Adjust audio output based on your viewing environment. For details, refer to [Performing acoustic auto calibration](#).

Reset

Return all sound settings to factory default settings.

Audio output

Adjust for headphones and audio system.

You can configure settings such as those below.

Speakers

Select TV or external speakers.

TV center speaker mode

Use the TV speakers as the center speaker of the home theater system.

Audio system prioritization

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

Home theater control

Turns your audio system on, and allows you to control it.

Sound mode sync

The sound field of the specified audio system will switch automatically when the TV's sound mode changes.

A/V sync

Adjust audio and video timing while using a Bluetooth A2DP audio device or a specific audio system connected with an HDMI cable.

eARC mode

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

Digital audio out

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

Digital audio out volume

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

Dolby Digital Plus output

Select output for Dolby Digital Plus for audio systems supporting Dolby Digital Plus and ARC. If you use ARC and optical audio out, select [Dolby Digital]. (Dolby Digital Plus will be muted over optical audio out.)

Pass through mode

Output audio signals to an audio system without decoding.



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> “Sound” advanced settings

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“Sound” advanced settings

This page introduces various settings for the features you can configure in [Sound].

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.

[Sound mode] settings

Setting	Description
Standard	Optimize sound quality for general content.
Dialog	Suitable for spoken dialog.
Cinema	Optimize surround sound suitable for movies.
Music	Lets you experience dynamic and clear sound, like that of a concert.
Sports	Simulates the larger space of a stadium or other venue.
Dolby Audio	Output sound processed by Dolby acoustic technology.

[Sound customization]

Setting	Description
Surround	Virtually reproduce realistic surround sound.

Surround effect	Adjust the surround sound effect.
Equalizer	Adjust sound based on different frequencies.
Voice Zoom	Emphasize voice.
Dialog enhancer	Emphasize voice when [Sound mode] is set to [Dolby Audio].

[Volume level]

Setting	Description
Volume offset	Adjust the sound level of the current input relative to other inputs.
Dolby Dynamic Range	Compensates for audio level difference between channels (only for Dolby Digital audio).
MPEG audio level	Adjusts MPEG audio sound level.
HE-AAC Dynamic Range	Compensates for audio level difference between channels (only for HE-AAC audio).
HE-AAC audio level	Adjusts HE-AAC audio sound level.

Related topics

- [Adjusting the sound quality](#)



> [Watching TV](#)

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> “Sound” advanced settings

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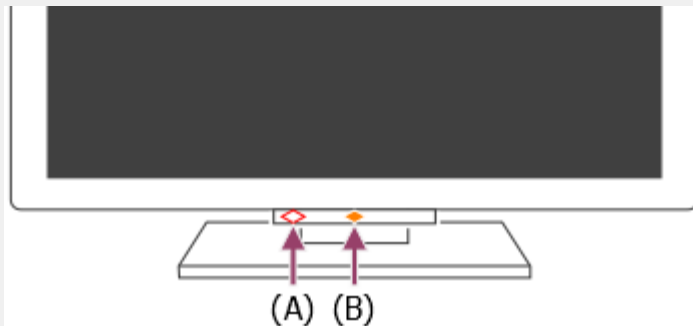
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How the LEDs light up

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 center at the bottom of the TV.)

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

Voice function LED

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

Note

- You can use the built-in Mic on the TV when the Built-in MIC switch is on. For the location of the Built-in Mic Switch, refer to the Reference Guide supplied with the TV.
- After you press the Google Assistant/MIC button on the remote control and finish activating the built-in Mic on the TV, the voice function LED turns on in amber when the built-in Mic on the TV is off (when on, the Operational response LED turns on in amber).

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^{*})

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

Related topics

- [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](#)
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Home menu

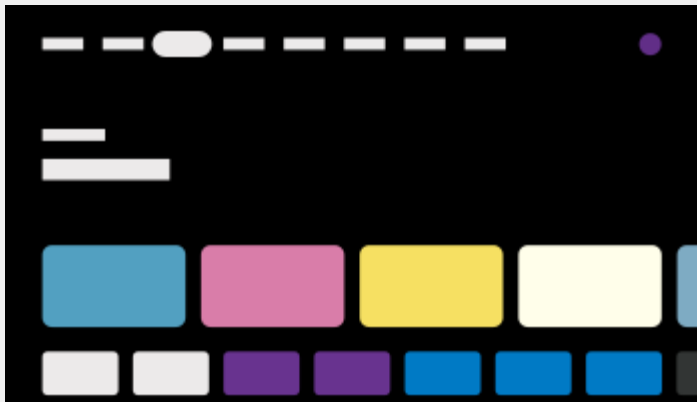
The screen displayed when you press the HOME/🏠 (HOME) button on the remote control is called the Home Menu. From the Home Menu, you can search for content and select recommended content, apps, and settings.

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 behavior], and then select [Last 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](#)



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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** or  (**Input**) button repeatedly to select the connected device.



Alternatively, press the **INPUT** or  (**Input**) 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 [Input menu].

To edit the input items


1 Press the **INPUT** or  (**Input**) button.

2 Press the  (**Right**) button 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.



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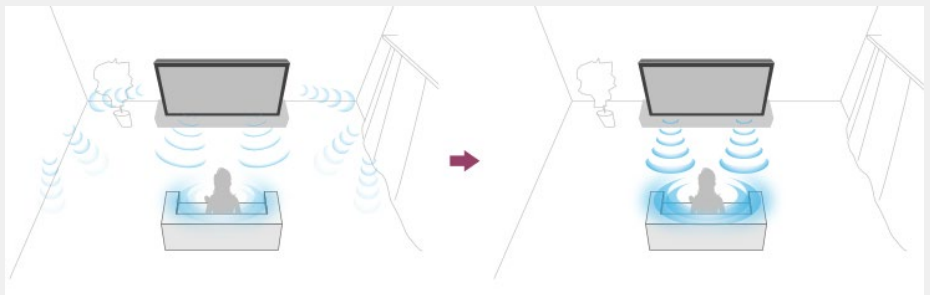
[Getting Started](#) > Performing acoustic auto calibration[Print](#)

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] — [Sound] — [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.

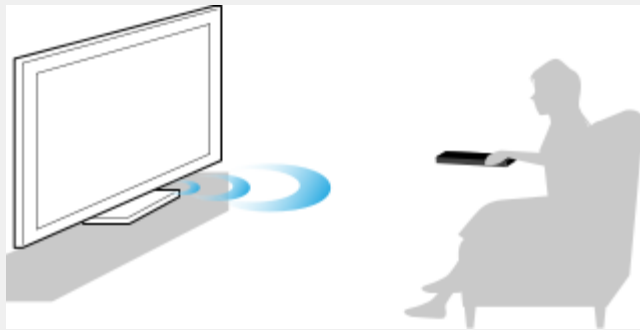
[Settings] — [Display & Sound] — [Audio output] — [Speakers] — [TV speakers]

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

[Settings] — [Display & Sound] — [Sound] — [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

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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 or  (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/>



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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/CC

You can press the 123 (Control 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](#).

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

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

Chromecast built-in™ or AirPlay allows you to display (cast) your favorite 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





- An Internet connection is 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 or  (Input) 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

- An internet connection is required to use AirPlay.
- Operation of a mobile device such as iPhone or iPad varies depending on the OS version.
- iPhone, iPad, AirPlay and HomeKit are trademarks of Apple Inc., registered in the U.S. and other 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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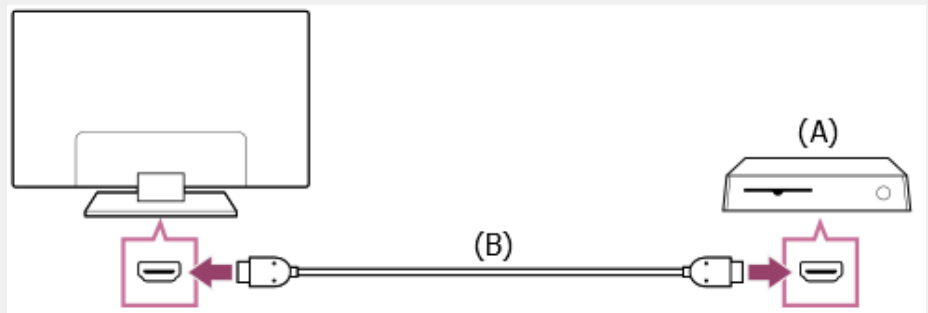
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Video game consoles

Connecting

Connect an HDMI-supported video game console to your TV with an HDMI cable.



(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 will 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 provide documentation included with the TV.

Changing HDMI input settings

After connecting, set the connected HDMI input port.


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

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]

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, 8K)].
- If you connect a video game console that supports VRR, set to [Enhanced format (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 labeled 4K 120Hz or 4K 120Hz 8K, or connect to the HDMI input port that is displayed as [Enhanced format (4K120, 8K)] or [Enhanced format (VRR)] for HDMI signal format].

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

Related topics

- [Connecting terminal](#)



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

If you connect the transmitter to the TV, 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-3ds>

The locations of the optical digital audio output jack and USB port varies depending on the model. Refer to the Setup Guide.

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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/

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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 & Sign In](#)
- [Enjoying safe apps and video streaming services \(Security & Restrictions\)](#)
- [Connecting to a network using a LAN cable](#)

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

[No color/Dark picture/Color is not correct/Picture is too bright.](#)

[Distorted picture./The screen flickers.](#)

[High resolution HDR pictures are not displayed.](#)

[OLED panel \(only models equipped with an OLED panel\)](#)

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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/  (BACK) button on the remote control.

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Broadcast reception

Check these things first to troubleshoot your TV reception.

You cannot view digital channels.

You cannot receive or select channels.



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Sound

[No sound but good picture.](#)

[No audio or low audio with a home theater 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 \(only TVs with a built-in MIC\).](#)

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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.



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Remote control/accessories

[The remote control does not operate.](#)

[You want to disable the remote control backlight. \(only remote controls that feature backlight\)](#)



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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.

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[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 cable/satellite box using the TV's remote control.](#)

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

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LED

You want to disable the LED so that it does not light up or blink.

The Operational response LED blinks in red.



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
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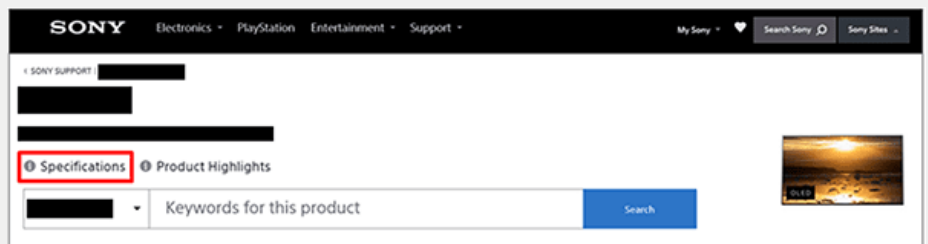
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Specifications

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](#)

 > [Index/Other](#) > Specifications

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Support Site

For the latest information and Online Help Guide, please visit the Sony support website:

- USA:
<https://www.sony.com/tvsupport>
- Canada:
<https://www.sony.ca/support>
- Brazil:
<https://esupport.sony.com/BR/>
- Latin America:
<https://esupport.sony.com/ES/LA/>
- Philippines:
<https://www.sony-asia.com/support/>

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Keeping the TV updated

The TV acquires data such as program 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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> The TV cannot connect to the Internet/Network.

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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 & 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 & 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 & Internet] — [Network status].

Related topics

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



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

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Connecting to a network using a wireless connection

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

[Using Wi-Fi Direct to connect to the TV \(no wireless router required\)](#)



> [Connecting to a Network](#) > [Connecting to a network](#)

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Using Wi-Fi Direct to connect to the TV (no wireless router required)

You can connect a device to the TV wirelessly, without using a wireless router, and then stream videos, photos, and music that is stored on your device directly to the TV.

Note

- Wi-Fi Direct connects smartphones and computers directly to the TV instead of through the Internet, so streaming video content that requires an Internet connection cannot be played back on the TV.



1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network & Internet] — [Wi-Fi Direct] — [Wi-Fi Direct settings].

2 Select the TV name displayed on the TV screen with the Wi-Fi Direct device.

If the device does not support Wi-Fi Direct, select the [Show Network (SSID)/Password].

3 Operate the Wi-Fi Direct/Wi-Fi device to connect with the TV.

4 Send content from the Wi-Fi Direct/Wi-Fi device to the TV.

For details, refer to the instruction manual of the device.


If connection is not successful

When the standby screen for the Wi-Fi Direct setting is displayed, select [Show Network (SSID)/Password] and follow the on-screen instructions to complete the set-up.


To connect another device


Follow the steps above to connect devices. Up to 10 devices can be connected at the same time. To connect another device when 10 devices are already connected, disconnect an unnecessary device, then connect the other device.

To change the name of the TV shown on the connected device


Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — [About] — [Device name].

To list connected devices/deregister devices

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Network & Internet] — [Wi-Fi Direct] — [Show device list/Delete].

To deregister a device, select the device in the list to delete, then press the  (Enter) button. Then, select [Yes] on the confirmation screen.

To deregister all devices, select [Delete all] in the list, then [Yes] in the confirmation display.

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

> [Using Wi-Fi Direct to connect to the TV \(no wireless router required\)](#)

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> Using the remote control microphone

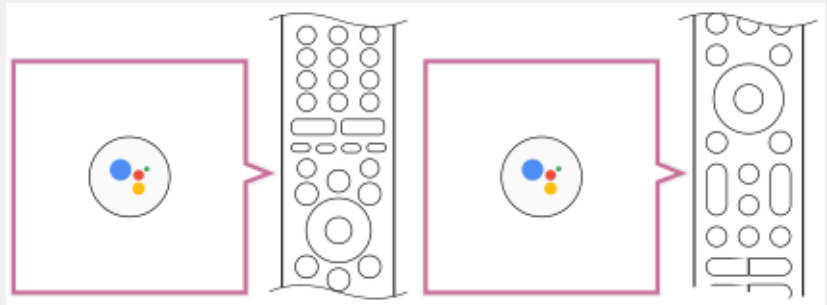
[Print](#)

Using the remote control microphone

Remote controls that support voice control have a Google Assistant 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 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 button.**

Speech examples may be displayed depending on your model.



Search results are displayed when you speak into the microphone.

Hint

- If you press the Google Assistant or MIC button on the remote control and say “Voice hints”, information about how to speak and available voice commands will be displayed. This function may not be available depending on your model/region/country/language.

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 microphone on the remote control, you must add and set a Google Account to the TV.



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

> Using the remote control microphone

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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.

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/us/>

Hint

- The URL is subject to change without notice.

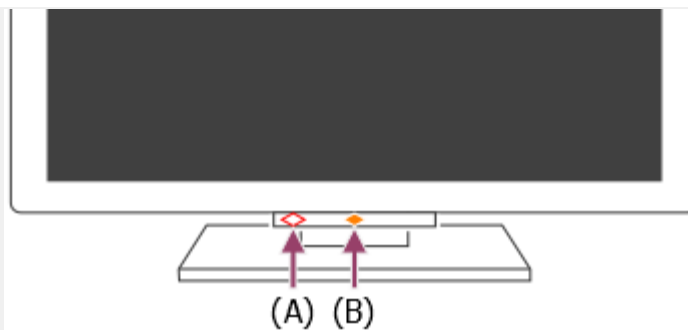
Do more on your TV using only your voice. Just start with “Hey Google” to:

- Control your TV and smart home devices
- Enjoy music and entertainment
- Get answers
- Plan your day and manage tasks



Face the TV and say, “Hey 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 center of the TV.

(B) The LED located at the bottom center of the TV lights up amber when hands-free operation is available.

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.

Note

- An Internet connection is required to use the built-in Mic on the TV.
- After turning on the built-in Mic switch on the TV, you need to press the Google Assistant/MIC 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 built-in Mic switch on the TV is enabled, 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). (Only models with the built-in MIC switch)
- With the TV's built-in mic enabled, you can say "Hey Google, Where is the remote control" to the TV to play a buzzer from the remote control. This is useful when you cannot find the remote control. For details, refer to [Finding the remote control \(only](#)

models supplied with a buzzer built-in remote control) .

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.](#)



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

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

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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](#)



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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)

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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 or  (Input) 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 the 123 (Control menu) button on the remote control while watching content from the HDMI input, select [Device 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](#)

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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](#)



> [Using the TV with Other Devices](#)

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

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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 out] settings according to your audio system. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Digital audio out].
- If the audio system is not compatible with Dolby Digital or DTS, set [Settings] — [Display & Sound] — [Audio output] — [Digital audio out] to [PCM].
- The [Digital audio out] 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](#)

For details about supported models, refer to the support site.

- [Support Site](#)

Related topics

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



> [Using the TV with Other Devices](#)

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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 kHz 16 bits
- Dolby Digital
- Dolby Digital Plus
- DTS
- Dolby TrueHD
- DTS-HD MA
- Dolby Atmos
- DTS:X Master Audio
- MPEG2 - AAC/MPEG4 - AAC

For details, refer to the support page.

- [Support Site](#)

Related topics

- [Connecting an audio system](#)




 > [Using the TV with Other Devices](#)

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No sound but good picture.

- Check the antenna/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  (Mute) or VOL or  (Volume) + button to cancel muting.
- Press the  (Quick Settings) button, then select [Audio output] — [TV speakers].
- If headphones or Bluetooth audio devices are connected, sound is not output from the TV speakers or audio system connected via eARC/ARC. Remove the headphones or disconnect the Bluetooth audio device.

Related topics

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

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> No audio or low audio with a home theater system.

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No audio or low audio with a home theater 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] — [Digital audio out] to [PCM].
- Check if the [Digital audio out volume] setting of the TV is at maximum.

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

[Settings] — [Display & Sound] — [Audio output] — [Digital audio out 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](#)

[> Troubleshooting](#) > [Sound](#)

> No audio or low audio with a home theater system.

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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 programs on other channels while watching TV.

You can add favorite channels when using the built-in tuner.



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 program you want to watch.


If you move the focus down and select [TV settings] or [Remote control], options available while you are watching will be displayed. You can also select options such as [Digital] or [Cable] to change the displayed Channel list. (The displayed options vary depending on what you are watching.)

Hint

- To add the channel you are watching to favorites, press the

(Up) button on the remote control from the [TV menu] and add the channel to favorites from the displayed menu.

- You can use the TV button on the remote control to display the channels from the cable/satellite box.

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [TV button shortcut].

Then, select the input that is connected to the cable/satellite box.

- If you configured a cable/satellite box in the initial setup, you can press the TV button to display the channel list of the cable/satellite box.

You can also operate the cable/satellite box with the control panel displayed when you select [Remote control].

Cable/satellite box control compatible models have [Cable/Satellite box setup] in [Settings] — [Channels & Inputs] — [External inputs].



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Using the program guide

You can quickly find your preferred programs.

(This function is available only for digital broadcasts and depends on your region/country/settings.)

- 1 Press the GUIDE/  (Guide) button to display the digital program guide.**
- 2 Select a program to watch.**
The details of the program are displayed.
- 3 Select [View] to watch the program.**

Hint

- (Cable/satellite box control compatible models only) If you perform the [Cable/Satellite box control setup] setting in [Cable/Satellite box setup] under [External inputs], you can display the program guide of the cable/satellite box.

Related topics

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

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> You want to disable the LED so that it does not light up or blink.

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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 Operational response LED (amber LED)/voice function LED (amber LED) (only TVs with a built-in MIC)

To turn off the amber voice function LED when the Built-in MIC switch is turned off, or to turn off the amber operational response LED when the Built-in MIC switch is on, in [Settings] — [System] — [LED indicator], disable [Voice detection status].

Related topics

- [How the LEDs light up](#)

[?](#) > [Troubleshooting](#) > [LED](#)

> You want to disable the LED so that it does not light up or blink.

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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/>



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Using interactive broadcast TV services

To use Ginga service (Ginga models only)

Ginga models have [Channel setup & Ginga] in [Settings] — [Channels & Inputs] — [Channels].

Ginga (also known as DTVi) Interactivity provides extended programming content information such as sports statistics, soap opera chapters and characters, publicity, merchandising, weather information and news, through high-quality digital text and graphics, along with advanced options.

If available in your home, Ginga Interactivity also allows you to communicate with the broadcaster through the return channel, in scenarios such as polls, quizzes and games. These services are provided by broadcasters.

(This function is only available for digital broadcasts and may not be available in your region/country.)

1**Select a digital channel that provides Ginga features.**[Watching TV](#) > [Watching TV programs](#)> [Using interactive broadcast TV services](#)[Go to page top](#)

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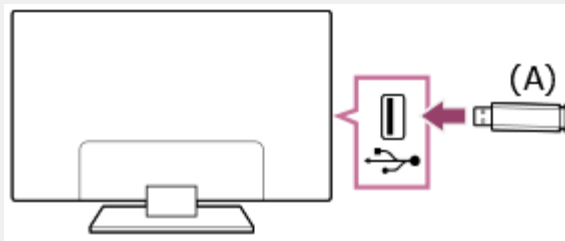
> Playing content stored on a USB device

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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/  (HOME) button, and select **Apps** from the Home menu, then select **[Media Player]**.
If the supplied remote control has an APPS button, you can press the APPS button.
- 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 3.1 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.

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.](#)



> [Using the TV with Other Devices](#) > [USB devices](#)
> [Playing content stored on a USB device](#)

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> Information about USB devices used for storing photos and music

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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](#)



> [Using the TV with Other Devices](#) > [USB devices](#)

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Connecting a cable/satellite box

Connect the cable/satellite 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.

[> Using the TV with Other Devices](#) > [Cable/satellite box](#)> [Connecting a cable/satellite box](#)[Go to page top](#)

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How to control the cable/satellite box using the TV remote control

Cable/satellite box control compatible models have [Cable/Satellite box setup] in [Settings] — [Channels & Inputs] — [External inputs].

Performing [Cable/Satellite box control setup] in [Cable/Satellite box setup] allows you to control a cable/satellite box using the TV's remote control.

1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [External inputs] — [Cable/Satellite box setup] — [Cable/Satellite box control setup].

2 Follow the on-screen instructions.

Note

- When operating the TV's remote control, point it at the cable/satellite 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 \(such as a cable/satellite box\) cannot be](#)

controlled using the TV's remote control. (Cable/satellite box control compatible models only)



> [Using the TV with Other Devices](#) > [Cable/satellite box](#)

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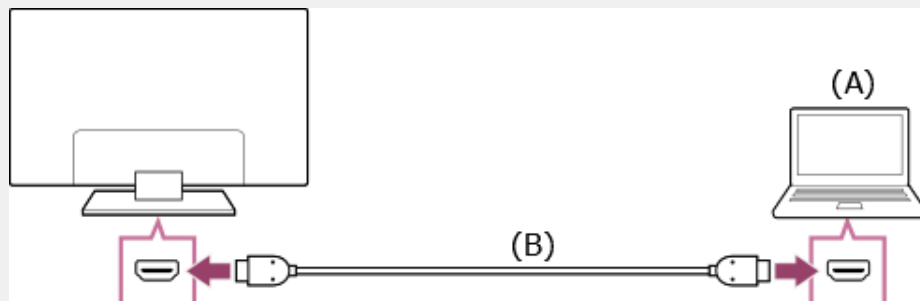
Index/Other

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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 authorized 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 or  (Input) 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.



> [Using the TV with Other Devices](#)

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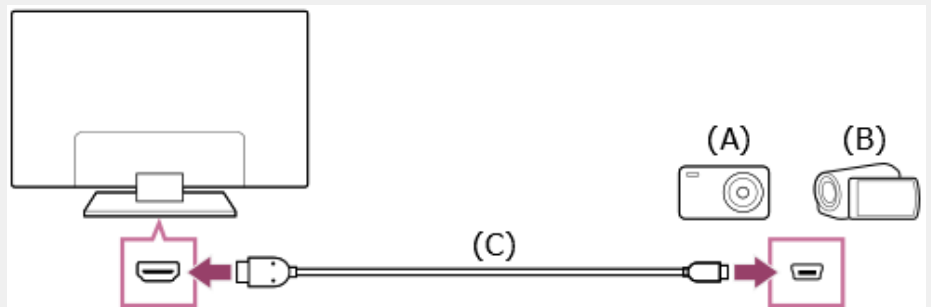
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Connecting a camera or camcorder and viewing stored content

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 authorized 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 or  (Input) 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](#)



> [Using the TV with Other Devices](#)

> [Computers, cameras, and camcorders](#)

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

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Computer video signal specifications

(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)

* 1920 x 1080 timing, when applied to the HDMI input, will be treated as a video timing and not computer timing. This will affect the [Screen] settings in [Display & Sound]. To view computer content, set [Wide mode] to [Full], and [Display area] to [+1]. ([Display area] is configurable only when [Auto display area] is disabled.)

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 "Supported computer input signals".

[Using the TV with Other Devices](#)[Computers, cameras, and camcorders](#) > [Computer video signal specifications](#)


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Connecting a Bluetooth device


To pair the TV with a Bluetooth device

Only for Bluetooth A2DP-supported models that can use Bluetooth audio devices such as headphones or speakers.

Bluetooth A2DP-supported models that support Bluetooth audio devices have [A/V sync] in [Settings] — [Display & Sound] — [Audio output].

- 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 & 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.

To connect to a paired Bluetooth device

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

3 Select [Connect].

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.](#)



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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. (Only for Bluetooth A2DP-supported models that can use Bluetooth audio devices.)

Bluetooth A2DP-supported models that support Bluetooth audio devices have [A/V sync] in [Settings] — [Display & Sound] — [Audio output].

1

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

Hint

- You can also adjust the output timing of the picture and sound if a specific audio system is connected with an HDMI cable. For details about supported models, refer to the support site.

- [Support Site](#)

Note

- Depending on the connected Bluetooth audio device, the picture and sound may not match even when the [A/V sync] setting is set to [On] or [Auto].
- To prevent the TV from displaying a black screen immediately after turning it on when a sound bar is connected wirelessly (Bluetooth), set the [A/V sync] setting to [On].
- If [Picture mode] is set to one of the options below, the output

timing of the picture and sound is not adjusted even when the [A/V sync] setting is set to [Auto].

- [Game]
- [Graphics]
- [Photo]

To adjust [A/V sync] when in any of these modes, select [On].

- 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.



> [Using the TV with Other Devices](#) > [Bluetooth devices](#)

> Adjusting the AV sync setting

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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](#)

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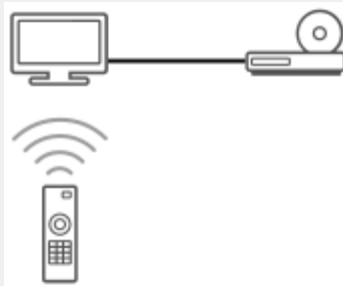
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BRAVIA Sync overview

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](#)



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Using features available for BRAVIA Sync-compatible devices

To operate BRAVIA Sync-compatible devices from the TV, use the INPUT or  (Input) 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 (VOL or  (Volume) +/- buttons) and mutes the sound (MUTE or  (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.

Note

- “BRAVIA Sync control” (BRAVIA Sync) is only available for connected BRAVIA Sync-compatible devices that have the BRAVIA Sync logo.

Related topics

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



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> Using features available for BRAVIA Sync-compatible devices

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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.)

[Device auto power off]

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

[TV auto power 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.

[Device control keys]

Allows you to set buttons to control an HDMI connected device.

Related topics

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



> [Using the TV with Other Devices](#) > [BRAVIA Sync-compatible devices](#)

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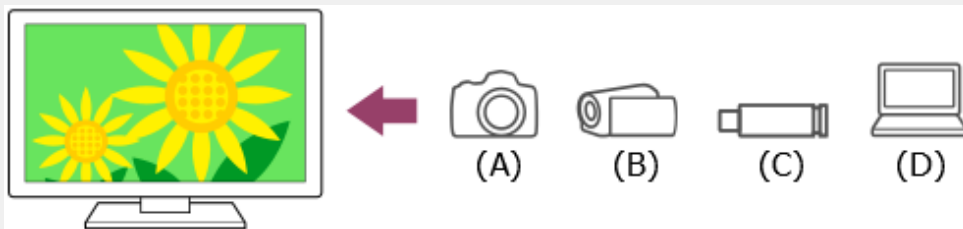
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Viewing pictures in 4K resolution

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/  (HOME) button, and select Apps from the Home menu, then select [Media Player].**
If the supplied remote control has an APPS button, you can press the APPS button.
- 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 or  (Input) 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](#)



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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] 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] — the HDMI input you want to set.

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

- Standard format
- Enhanced format
- Enhanced format (Dolby Vision)
- Enhanced format (4K120, 8K)
- Enhanced format (VRR)

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](#)



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> Adjusting home network settings

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Adjusting home network settings

You can adjust the following home network settings.

To check the server connection

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

To use the renderer function

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

[Renderer]


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 [Auto 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 & Internet] — [Remote device settings] — the desired option.

[Control remotely]

Enable operation of the TV from a registered device.

[Deregister remote device]

Deregister a device to disable operation of the TV from that device.



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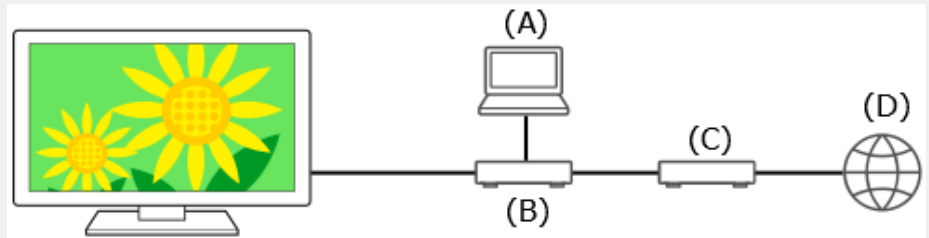
> [Connecting to a Network](#) > [Home network features](#)

> Playing content from a computer

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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/  (HOME) button, and select Apps from the Home menu, then select [Media Player].
If the supplied remote control has an APPS button, you can press the APPS button.
- 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](#)



> [Connecting to a Network](#) > [Home network features](#)

> [Playing content from a computer](#)

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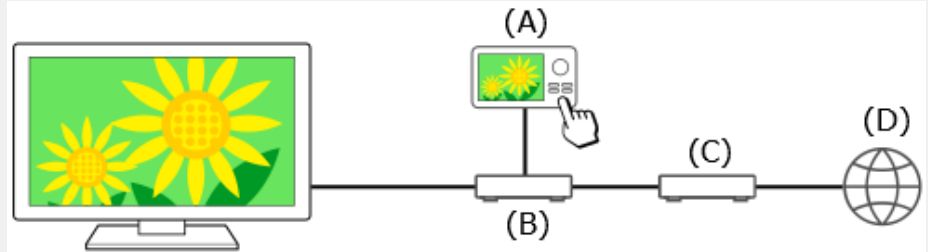
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Playing content from a media server

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](#)

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Self diagnostics

Check if the TV is working properly.

- 1 Press **INPUT** or  (Input) 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](#)

[> Troubleshooting](#) > [Start here](#) > Self diagnostics[Go to page top](#)

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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.



> [Troubleshooting](#) > [Start here](#)

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

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


> No color/Dark picture/Color is not correct/Picture is too bright.

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No color/Dark picture/Color is not correct/Picture is too bright.

- Check the antenna/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] to make adjustments. For details, refer to [Adjusting the picture quality](#) page.
- Press the  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 [%1] [%2]]. 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] — [Brightness], and adjust [Brightness] or [Contrast].

Related topics

- [Display & Sound](#)



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

> No color/Dark picture/Color is not correct/Picture is too bright.

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

> Distorted picture./The screen flickers.



[Print](#)

Distorted picture./The screen flickers.

Check the connection and position of the antenna and peripheral devices

- Check the antenna/cable connection.
- Keep the antenna/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 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] — [Motion] — [Motionflow] — [Off].
- Change the current setting of [CineMotion] to [Off].
Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture] — [Motion] — [CineMotion].



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

> Distorted picture./The screen flickers.

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> High resolution HDR pictures are not displayed.

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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] — 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.

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

> High resolution HDR pictures are not displayed.

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> [Troubleshooting](#) > [Broadcast reception](#)

> Check these things first to troubleshoot your TV reception.

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Check these things first to troubleshoot your TV reception.

- Make sure that the antenna cable is firmly connected to the TV.
 - Make sure that the antenna cable is not loose or disconnected.
 - Make sure that the cable or cable connector of antenna 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](#)



> [Troubleshooting](#) > [Broadcast reception](#)

> Check these things first to troubleshoot your TV reception.

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> [Troubleshooting](#) > [Broadcast reception](#)

> You cannot view digital channels.

[Print](#)

You cannot view digital channels.

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

Related topics

- [Check these things first to troubleshoot your TV reception.](#)
- [You cannot receive or select channels.](#)



> [Troubleshooting](#) > [Broadcast reception](#)

> You cannot view digital channels.

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> You cannot receive or select channels.

[Print](#)

You cannot receive or select channels.

- Perform [Auto program] to add receivable channels to the TV memory. Press the  (Quick Settings) button, then select [Settings] — [Channels & Inputs] — [Channels] — [Cable/Antenna] — [Auto program].
- Check that [Signal type] is set correctly. Press the  (Quick Settings) button, then select [Settings] — [Channels & Inputs] — [Channels] — [Cable/Antenna] — [Signal type].

[Antenna]

Set to receive and select antenna channels.

[Cable]

Set to receive and select cable channels.

Related topics

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

[> Troubleshooting](#) > [Broadcast reception](#)

> You cannot receive or select channels.

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> [Troubleshooting](#) > [Sound](#)

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

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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 cannot 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 out] to [PCM]

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



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

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

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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] — [A/V sync].

If a specific audio system is connected with an HDMI cable

You can adjust the output timing of the picture and sound. For details about supported models, refer to the support site.

- [Support Site](#)

Related topics

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

 > [Troubleshooting](#) > [Sound](#)

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

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> No TV sounds such as operation sound or audio response.

[Print](#)


No TV sounds such as operation sound or audio response.

If the TV is connected via eARC or [Pass through mode] is set to [Auto], 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 mode] to [Off].

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

- Set [Pass through mode] to [Off].

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Display & Sound] — [Audio output] — [Pass through mode] — [Off].

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> No TV sounds such as operation sound or audio response.

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
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> You cannot establish an eARC connection.


[Print](#)

You cannot establish an eARC connection.

- [eARC mode] 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] — [eARC mode] — [Auto]
 - [Settings] — [Display & Sound] — [Audio output] — [Speakers] — [Audio system]
- Enable the audio system's eARC feature.

Related topics

- [Connecting an audio system](#)

 > [Troubleshooting](#) > [Sound](#)

> You cannot establish an eARC connection.

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

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

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 [Pass through mode] is set to [Auto]



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

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

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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] — enable [Automatic date & time] in [System] — [Date & 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](#)

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

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> The remote control does not operate.

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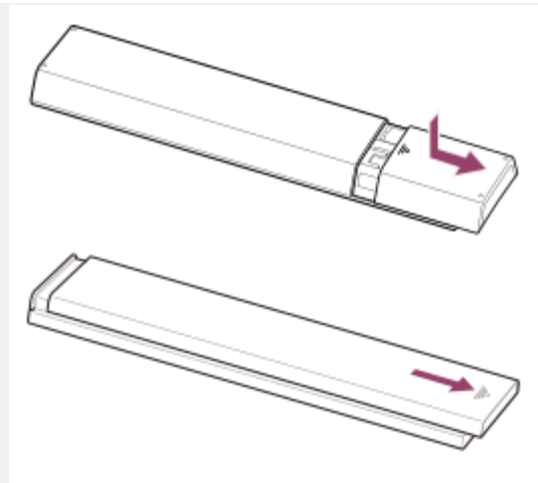
The remote control does not operate.

Check if the TV is working properly

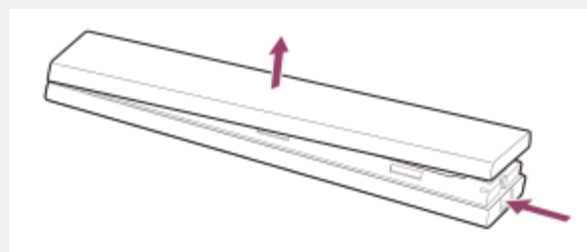
- Press the power button on the TV to determine if the problem is with the remote control or not. For the location of the power button, refer to the Reference Guide supplied with the TV.
- If the TV is not working, try resetting it.
[If a full reset \(restart\) of the TV is required](#)

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 MIC button or Google Assistant 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 (IEEE802.11b/g/n).

- 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 & 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 (IEEE802.11a) 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 & 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 initialize the system. Wait for about 10 to 20 seconds, then try again.

Related topics

- [Using the remote control microphone](#)



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> The remote control does not operate.

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

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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 VOL or  (Volume) - button and HOME/
 (HOME) button on the remote control at the same time 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.



> [Troubleshooting](#) > [Remote control/accessories](#)

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

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> The TV cannot be turned off using the remote control.

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The TV cannot be turned off using the remote control.

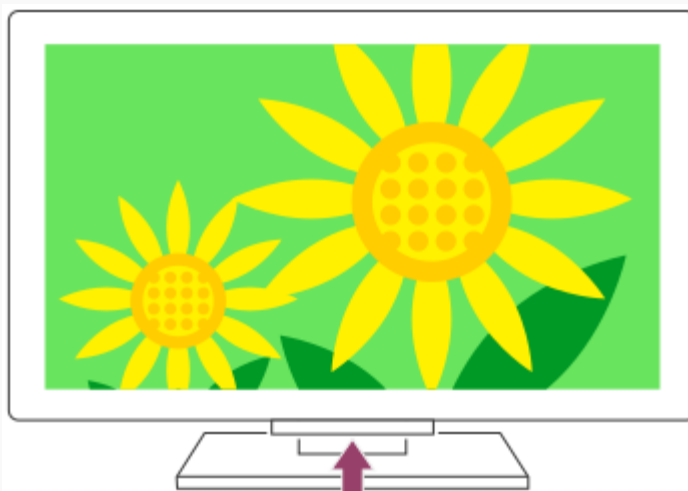
The batteries in the remote control may be depleted. Replace them with new ones or turn off the TV using the power button on the TV.

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](#)



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> The TV cannot be turned off using the remote control.

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The TV turns off automatically.

- The screen may have been turned off due to [Sleep timer] settings.
- Check the [Duration] setting of [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 & Energy] — [Energy saver] — [Turn off TV after]

- (US, CA and MX models only) Check if [Auto shut-off] in [Power & Energy] is activated.

Related topics

- [Timers & Clock](#)

[> Troubleshooting](#) > [> Power](#) > The TV turns off automatically.[Go to page top](#)

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The TV turns on automatically.

- Check if the [Timer] is activated.
- Disable the [TV auto power on] setting in [BRAVIA Sync settings].

Related topics

- [BRAVIA Sync-compatible devices](#)
- [Timers & Clock](#)



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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.

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 initialize 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](#)



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

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> No picture from a connected device.

[Print](#)

No picture from a connected device.

- Turn the connected device on.
- Check the cable connection between the device and TV.
- Press the INPUT or  (Input) 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] — the HDMI input you want to set.

Related topics

- [Using the TV with Other Devices](#)

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> No picture from a connected device.

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> You cannot select a connected device.

[Print](#)

You cannot select a connected device.

- Check the cable connection.

Related topics

- [Using the TV with Other Devices](#)



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> You cannot select a connected device.

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> You cannot find a connected BRAVIA Sync HDMI device.

[Print](#)

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](#)



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> You cannot find a connected BRAVIA Sync HDMI device.

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> You cannot turn off the cable/satellite box using the TV's remote control.

[Print](#)

You cannot turn off the cable/satellite box using the TV's remote control.

Cable/satellite box control compatible models have [Cable/Satellite box setup] in [Settings] — [Channels & Inputs] — [External inputs].



> [Troubleshooting](#) > [Connected devices](#)

> You cannot turn off the cable/satellite box using the TV's remote control.

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> An external device (such as a cable/satellite box) cannot be controlled using the TV's remote control. (Cable/satellite box control compatible models only)

[Print](#)

An external device (such as a cable/satellite box) cannot be controlled using the TV's remote control. (Cable/satellite box control compatible models only)

Cable/satellite box control compatible models have [Cable/Satellite 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 cable/satellite box using the TV remote control](#)



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> An external device (such as a cable/satellite box) cannot be controlled using the TV's remote control. (Cable/satellite box control compatible models only)

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> Operation cuts out, or a device does not work.

[Print](#)

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](#)



> [Troubleshooting](#) > [Connected devices](#)

> Operation cuts out, or a device does not work.

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

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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 colors easily cause image retention. Avoid displaying these types of images for long periods of time, otherwise image retention may occur.



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

> [OLED panel \(only models equipped with an OLED panel\)](#)

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

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> [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)

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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.



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> [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)

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> [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)

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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 (50°F) and 40°C (104°F) 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.



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> [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)

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> [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)

[Print](#)

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 (50°F) and 40°C (104°F) 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.



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> [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)

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Photos

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

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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.

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Videos

Use case : USB / Home Network

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

Subtitle Type : External

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

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

Subtitle Type : External

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

MPEG2TS

Extension : *.m2t

Subtitle Type : Internal (Except for Brazilian models) / External (For Brazilian models only)

- **Video Codec (Profile@Level):** MPEG2 MP@HL, MP@H14L, MP@ML

- **Audio Codec:** MPEG1L1 / MPEG1L2 / AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

Extension : *.m2ts / *.mts

Subtitle Type : External

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

MP4 (*.mp4)

Subtitle Type : External

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

- **Max. Frame Rate:** 3840x2160@60p / 1920x1080@120fps
- **Video Codec (Profile@Level):** HEVC / H.265 MP@L5.1, Main10@L5.1
- **Audio Codec:** AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / AC4 / E-AC3
- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)
- **Max. Frame Rate:** 3840x2160@60p / 1920x1080@120fps

*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):** Xvid
- **Audio Codec:** MPEG1L1 / MPEG1L2 / MPEG1L3 / AC3 / E-AC3
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps
- **Video Codec (Profile@Level):** Motion JPEG
- **Audio Codec:** μ -LAW / PCM (U8) / PCM (S16LE)
- **Max. / Min. Resolution:** 1280x720 / QCIF (176x144)
- **Max. Frame Rate:** 1280x720@30fps

Asf (*.asf / *.wmv)

Subtitle Type : External

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

MKV (*.mkv)

Subtitle Type : Internal / External

- **Video Codec (Profile@Level):** Xvid

- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

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

- **Video Codec (Profile@Level):** MPEG4 SP@L6, ASP@L5, ACEP@L4
- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

- **Video Codec (Profile@Level):** VP8
- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

- **Video Codec (Profile@Level):** VP9 Profile 0, Profile 2
- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2 / MPEG1L1 / MPEG1L2 / Vorbis
- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)
- **Max. Frame Rate:** 3840x2160@60fps

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

- **Video Codec (Profile@Level):** HEVC / H.265 MP@L5.1,

Main10@L5.1

- **Audio Codec:** DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE-AAC v2
- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)
- **Max. Frame Rate:** 3840x2160@60p / 1920x1080@120fps

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

Subtitle Type : External

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

MOV (*.mov)

Subtitle Type : External

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

Audio Codec

: AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 /
MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM
(S16LE)

- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

- **Video Codec (Profile@Level):** Motion JPEG
- **Audio Codec:** AAC-LC / HE-AAC v1 / HE-AAC v2 / AC3 / E-AC3 /
MPEG1L1 / MPEG1L2 / μ -LAW / PCM (U8) / PCM (S16BE) / PCM
(S16LE)
- **Max. / Min. Resolution:** 1280x720 / QCIF (176x144)
- **Max. Frame Rate:** 1280x720@30fps

WebM (*.webm)

Subtitle Type : External

- **Video Codec (Profile@Level):** VP8
- **Audio Codec:** Vorbis
- **Max. / Min. Resolution:** 1920x1080 / QCIF (176x144)
- **Max. Frame Rate:** 1920x1080@30fps / 1280x720@60fps

- **Video Codec (Profile@Level):** VP9 Profile 0, Profile 2
- **Audio Codec:** Vorbis
- **Max. / Min. Resolution:** 3840x2160 / QCIF (176x144)
- **Max. Frame Rate:** 3840x2160@60fps

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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
WMA9	8k / 11.025k / 16k / 22.05k / 32k / 44.1k / 48k
DTS core	32k / 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](#)



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External subtitles

Use case : USB

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

Other supported files and formats

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- [Music](#)
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