

# SONY

Television

## Getting Started [1]

- Remote control [2]
  - Remote control buttons [3]
  - Remote control buttons [4]
- Connecting terminal [5]
- How the LEDs light up [6]
- Home menu [7]
- Selecting inputs [8]
- Performing acoustic auto calibration [9]
- Accessibility features [10]

## Useful features [11]

- Searching for content/operating the TV with your voice [12]
  - Using the remote control microphone [13]
  - Using the built-in MIC on the TV (only TVs with a built-in MIC) [14]
- Enjoying preferred apps [15]
  - Installing apps [16]
- Finding the remote control (only models supplied with a buzzer built-in remote control) [17]
- Enjoying safe apps and video streaming services (Security and restrictions) [18]
- Enjoying the Camera and Microphone Unit (BRAVIA CAM supported models only) [19]

## Watching TV [20]

- Watching TV programmes [21]
  - Understanding the information banner icons [22]
  - Using the programme guide [23]
  - Configuring channel settings [24]
    - Receiving digital broadcasts [25]
    - Receiving satellite broadcasts [26]
    - Sorting or editing the channels [27]

- [Using the TV menu](#) [28]
- [Using interactive broadcast TV services](#) [29]
- [Useful features when watching TV](#) [30]
- [Changing the picture and sound quality to your preferences](#) [31]
  - [Adjusting the picture quality](#) [32]
  - [Adjusting the sound quality](#) [33]
  - [“Sound” advanced settings](#) [34]
  - [Advanced auto volume](#) [35]
  - [Balance](#) [36]

## [Recording TV Programmes](#) [37]

- [Recording to a USB HDD device](#) [38]
  - [Registering a USB HDD device](#) [39]
  - [Timer recording](#) [40]
  - [Information about using a USB HDD device for recording](#) [41]
- [Watching/deleting recorded content](#) [42]
- [Understanding the symbols displayed in the recorded title list](#) [43]

## [Using the TV with Other Devices](#) [44]

- [USB devices](#) [45]
  - [Playing content stored on a USB device](#) [46]
  - [Information about USB devices used for storing photos and music](#) [47]
  - [Supported files and formats](#) [48]
    - [Photos](#) [49]
    - [Music](#) [50]
    - [Videos](#) [51]
    - [Audio sampling rates \(for videos\)](#) [52]
    - [External subtitles](#) [53]
- [Blu-ray and DVD players](#) [54]
  - [Connecting a Blu-ray or DVD player](#) [55]
  - [Watching Blu-ray and DVD discs](#) [56]
- [TV box](#) [57]
  - [Connecting a TV box](#) [58]
  - [How to control the TV box using the TV remote control](#) [59]
- [Displaying the iPhone/smartphone or iPad/tablet app screen on the TV](#) [60]
- [Computers, cameras, and camcorders](#) [61]
  - [Connecting a computer and viewing stored content](#) [62]
  - [Connecting a camera or camcorder and viewing stored content](#) [63]

- [Computer video signal specifications](#) [64]
- [Audio system \(such as an AV receiver or sound bar\)](#) [65]
  - [Outputting audio from an audio system](#) [66]
  - [Connecting an audio system](#) [67]
  - [Adjusting an audio system](#) [68]
  - [Using the TV as a centre speaker \(only models with TV centre speaker mode\)](#) [69]
  - [Pass-through audio formats supported with eARC](#) [70]
  - [Accessing audio system settings](#) [71]
- [Video game consoles](#) [72]
- [Experiencing 3D surround with a neckband speaker or headphones \(BRAVIA XR models only\)](#) [73]
- [Bluetooth devices](#) [74]
  - [Connecting a Bluetooth device](#) [75]
  - [Adjusting the AV sync setting](#) [76]
  - [Supported Bluetooth profiles](#) [77]
- [BRAVIA Sync-compatible devices](#) [78]
  - [BRAVIA Sync overview](#) [79]
  - [Using features available for BRAVIA Sync-compatible devices](#) [80]
  - [Adjusting BRAVIA Sync settings](#) [81]
- [Viewing pictures in 4K from compatible devices](#) [82]
  - [Viewing pictures in 4K resolution](#) [83]
  - [Settings for viewing pictures through HDMI input with higher quality](#) [84]
- [BRAVIA Connectivity Guide](#) [85]

## [Connecting to a Network](#) [86]

- [Connecting to a network](#) [87]
  - [Connecting to a network using a LAN cable](#) [88]
  - [Connecting to a network using a wireless connection](#) [89]
    - [Using Wi-Fi to connect the TV to the Internet/Network](#) [90]
    - [Using Wi-Fi Direct to connect to the TV \(no wireless router required\)](#) [91]
- [Home network features](#) [92]
  - [Adjusting home network settings](#) [93]
  - [Playing content from a computer](#) [94]
  - [Playing content from a media server](#) [95]
- [Viewing Internet content](#) [96]

## [Settings](#) [97]

- [Using the Quick Settings](#) [98]
- [Using the Eco Dashboard](#) [99]
- [Channels & Inputs](#) [100]
- [Display & Sound](#) [101]
- [Network and Internet](#) [102]
- [Accounts and sign-in](#) [103]
- [Privacy](#) [104]
- [Apps](#) [105]
- [System](#) [106]
- [Remotes and accessories](#) [107]
- [Help and feedback](#) [108]
- [Timers & Clock](#) [109]

## [Troubleshooting](#) [110]

- [Start here](#) [111]
  - [Self diagnostics](#) [112]
  - [Software updates](#) [113]
  - [If a full reset \(restart\) of the TV is required](#) [114]
  - [Frequently Asked Questions for Troubleshooting](#) [115]
- [Picture \(quality\)/screen](#) [116]
  - [No colour/Dark picture/Colour is not correct/Picture is too bright.](#) [117]
  - [Distorted picture./The screen flickers.](#) [118]
  - [High resolution HDR pictures are not displayed.](#) [119]
  - [OLED panel \(only models equipped with an OLED panel\)](#) [120]
    - [The screen becomes darker after a certain period of time. \(only models equipped with an OLED panel\)](#) [121]
    - [The message \[Panel refresh did not finish\] is displayed. \(only models equipped with an OLED panel\)](#) [122]
    - [You are concerned about an image retention. \(only models equipped with an OLED panel\)](#) [123]
    - [A white line, or a red, green, or blue line appears on the screen. \(only some models equipped with an OLED panel\)](#) [124]
- [Keyboard](#) [125]
- [Broadcast reception](#) [126]
  - [Check these things first to troubleshoot your TV reception.](#) [127]
  - [You cannot view digital channels.](#) [128]
  - [You cannot view satellite channels.](#) [129]

- Some digital channels are missing. [130]
- Sound [131]
  - No sound but good picture. [132]
  - No audio or low audio with a home theatre system. [133]
  - You want to output sound from the headphones/Bluetooth audio device and audio system/TV speakers at the same time. [134]
  - You are concerned about a delay between the picture and sound. [135]
  - No TV sounds such as operation sound or audio response. [136]
  - You cannot establish an eARC connection. [137]
  - You cannot use voice search with the built-in MIC (only TVs with a built-in MIC). [138]
  - The TV responds to sound from the surroundings (only TVs with a built-in MIC). [139]
- Network (Internet/home)/apps [140]
  - The TV cannot connect to the Internet/Network. [141]
  - You can connect to the Internet, but not to certain apps and services. [142]
- Remote control/accessories [143]
  - The remote control does not operate. [144]
  - You want to disable the remote control backlight. (only remote controls that feature backlight). [145]
- Power [146]
  - The TV cannot be turned off using the remote control. [147]
  - The TV turns off automatically. [148]
  - The TV turns on automatically. [149]
  - The TV does not turn on. [150]
- Connected devices [151]
  - No picture from a connected device. [152]
  - You cannot select a connected device. [153]
  - You cannot find a connected BRAVIA Sync HDMI device. [154]
  - You cannot turn off the TV box using the TV's remote control. [155]
  - An external device (such as a TV box) cannot be controlled using the TV's remote control. (TV box control compatible models only). [156]
  - Operation cuts out, or a device does not work. [157]
- USB HDD recording [158]
  - You cannot use a USB HDD device. [159]
  - The USB HDD device cannot be registered. [160]
- LED [161]
  - You want to disable the LED so that it does not light up or blink. [162]
  - The Operational response LED blinks in red. [163]

## [Index/Other \[164\]](#)

- [Index \[165\]](#)
- [About the Help Guide \[166\]](#)
- [Help Guide structure \[167\]](#)
- [Specifications \[168\]](#)
- [Support Site \[169\]](#)
- [Keeping the TV updated \[170\]](#)
- [Trademark information \[171\]](#)

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[1]

## Getting Started

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

[Connecting terminal](#)

[How the LEDs light up](#)

[Home menu](#)

[Selecting inputs](#)

[Performing acoustic auto calibration](#)

[Accessibility features](#)

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[2] Getting Started

## Remote control

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Please select your remote control.



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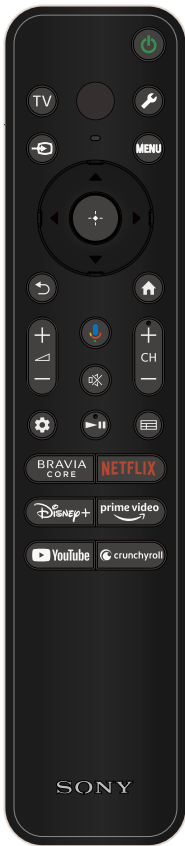
[3] Remote control | Remote control

## Remote control buttons

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

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



### **(Power)**

Turns on or switches to standby/networked standby mode.

### **TV**

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

### **(MIC)**

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

### **(Quick Settings)**

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

### **Hint**

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

### **(Input select)**

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

### **MENU**

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.

### **+/- (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.

### **(Dashboard)**

Display Dashboard.

### **(Play) / (Pause)**

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

### **(Guide)**

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

### **App buttons (Online service)**

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

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[4] Remote control | Remote control

## Remote control buttons

---

The included remote control, as well as the layout of the buttons and the button names, vary depending on your model/country/region.

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





### **i+ (Info/Text reveal)**

Display information.

### **TV**

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

### **⏻ (Power)**

Turns on or switches to standby/networked standby mode.

### **⋮ (Subtitle setting)**

Turn subtitles on or off (when the feature is available).

### **AUDIO**

Select multilingual source sound or dual sound for the programme currently being viewed (depending on programme source).

### **HELP**

Display the Help menu. Help Guide can be accessed from here.

### **EXIT**

Return to the previous screen or exit from the menu. When an Interactive Application service is available, press to exit from the service.

### **Number Button/ • (Dot)**

Use with the 0-9 buttons to select digital channels.

### **☰ (Text)**

Display text information.

### **Colour buttons**

Execute corresponding function at that time.

### **↔ (Input select)**

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

### **🔑 (Quick Settings)**

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

### **▲ (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.

### **MENU**

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

 **+/- (Volume)**

Adjust the volume.


 **(Jump)**

Jump back and forth between two channels or inputs. The TV alternates between the current channel or input and the last channel or input that was selected.

 **(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)**

In TV mode: Select the channel.

In Text mode: Select the  (Next) or  (Previous) page.

 **(Dashboard)**

Display Dashboard.

 **(Play)** /  **(Fast rewind)** /  **(Pause)** /  **(Stop)** /   
**(Fast forward)**

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

 **(Guide)**

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

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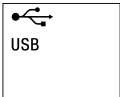
[5] Getting Started

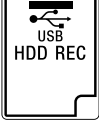


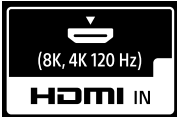
## Connecting terminal


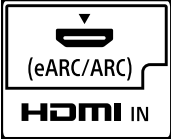


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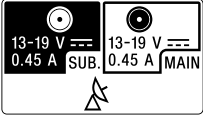
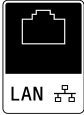

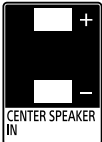

The types and shapes of connectors available vary depending on your TV.



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

Terminal	Description
	<b>USB</b> Connects to Digital still camera/Camcorder/USB storage media.

Terminal	Description
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>Connecting a large USB device may interfere with other devices connected next to it. In such a case, connect it to the another USB input.</li> </ul>
	<p><b>USB HDD REC</b></p> <p>Connects to the USB HDD device or Digital still camera/Camcorder/USB storage media.</p> <p>The USB HDD recording function is only available in limited regions/countries/TV models.</p>
	<p><b>AV IN</b></p> <p>Connects to VCR/Video game equipment/DVD player/Camcorder/External Box.*<sup>1</sup></p> <p>For a composite connection, use an Analogue Extension Cable (not supplied).</p> <p>*<sup>1</sup> For an external device which has only SCART AV OUT, use a SCART-RCA adaptor and Analogue Extension Cable.</p> <p>For more about the shape of the Analogue Extension Cable, refer to <a href="#">Connecting a Blu-ray or DVD player</a>.</p>
	<p><b>HDMI IN</b></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><b>HDMI IN (8K, 4K 120 Hz)</b></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>

Terminal	Description
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• 4K 100 Hz support depends on your country/region.</li> </ul>
	<p><b>HDMI IN (4K 120 Hz)</b></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><b>Note</b></p> <ul style="list-style-type: none"> <li>• 4K 100 Hz support depends on your country/region.</li> </ul>
	<p><b>HDMI IN (eARC/ARC)</b></p> <p>To connect an audio system that supports eARC (Enhanced Audio Return Channel) or ARC (Audio Return Channel), connect to the HDMI port labelled “eARC/ARC” on the TV. It is a feature that sends audio to an audio system that supports eARC/ARC through an HDMI cable. If the audio system does not support eARC/ARC, you need to connect with DIGITAL AUDIO OUT (OPTICAL).</p>
	<p><b>DIGITAL AUDIO OUT (OPTICAL)</b></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><b>ㄗ (RF input)</b></p> <p>Connects to Cable/Antenna/External Box.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• When connecting the cable to the Cable/Antenna input, finger tighten only, over tightening the connection can damage the TV.</li> </ul>

Terminal	Description
	<p><b>(Satellite input)</b></p> <p>Connects to satellite input.</p> <p>Connection steps: SUB. → MAIN → Antenna.</p> <p>For SUB. jack, connect only when you are using twin tuner mode except for Single Cable Distribution EN50494 (depends on model).</p>
	<p><b>LAN</b></p> <p>Connect to a Router.</p> <p>Connect to the Internet using a LAN cable.</p>
	<p><b>CAM (Conditional Access Module)</b></p> <p>Provides access to pay TV services. For details, refer to the instruction manual supplied with your CAM.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Do not insert the smart card directly into the TV CAM slot. It must be fitted into the Conditional Access Module provided by your authorised dealer.</li> <li>• CAM is not supported in some countries/areas. Check with your authorised dealer.</li> <li>• A CAM message may appear when you switch to a digital programme after using the Internet video.</li> <li>• Do not remove the dummy card or cover (availability depends on TV model) from the TV CAM slot other than to insert a smart card fitted in CAM.</li> </ul>
	<p><b>CENTER SPEAKER IN</b></p> <p>To use your TV speakers as the centre speaker, connect the output of your AV receiver to the CENTER SPEAKER IN on your TV.</p> <p>To use your TV speakers as the centre speaker, press the  (Quick Settings) button on the remote control, then select [Settings] — [Display &amp; Sound] — [Audio output] — [Speakers] — [Audio system].</p> <p><b>Note</b></p>

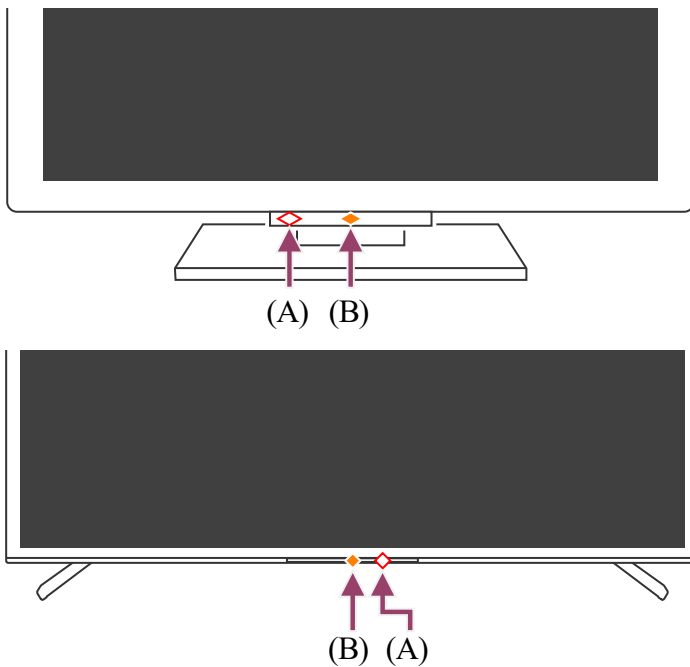
Terminal	Description
	<ul style="list-style-type: none"> <li>• Before connecting cables, disconnect the AC power cord (mains lead) of both the TV and AV receiver.</li> <li>• If you do not use the CENTER SPEAKER IN terminal or the S-CENTER SPEAKER IN input, change the following setting to prevent noise from the speakers. Press the  (Quick Settings) button on the remote control, and disable [TV centre speaker mode] in [Settings] — [Display &amp; Sound] — [Audio output].</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content;">S-CENTER SPEAKER IN</div>	<p><b>S-CENTER SPEAKER IN</b></p> <p>Connects the TV and an audio device with an S-CENTER OUT output/jack using a TV centre speaker mode cable. Before connecting, make sure you unplug the AC power cord (mains lead) of the TV and audio device to be connected.</p> <p>For details, refer to <a href="#">Using the TV as a centre speaker (only models with TV centre speaker mode)</a>.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• 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 centre speaker mode] in [Settings] — [Display &amp; Sound] — [Audio output].</li> </ul>

## How the LEDs light up

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

The location of the LEDs varies by model.



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

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

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

### Voice function LED

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

### Note

- 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/Setup Guide supplied with the TV.
- After you press the MIC/Google Assistant button on the remote control and finish activating the built-in MIC on the TV, the voice function LED turns on in 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](#)

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[7] Getting Started

## Home menu

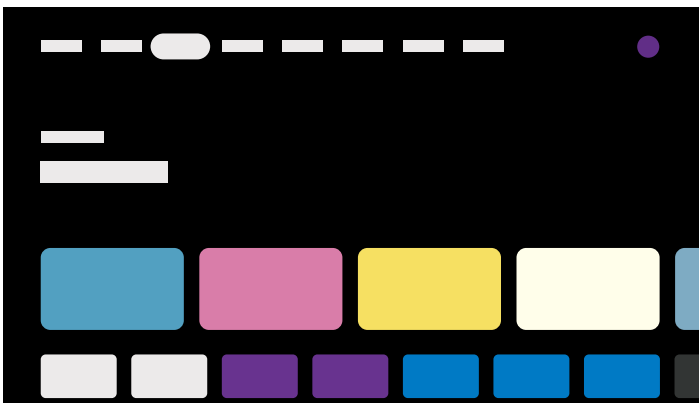
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The screen displayed when you press the HOME/  (HOME) button on the remote control is called the Home Menu. From the Home Menu, you can search for content and select recommended content, apps, and settings.

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 behaviour], and then select [Last used input].

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

Specifications may be subject to change without notice.

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

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




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





### Note

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

### To edit the input items

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

### Hint

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

- You can switch to TV broadcasting by simply pressing the TV button on the remote control.

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## [9] Getting Started

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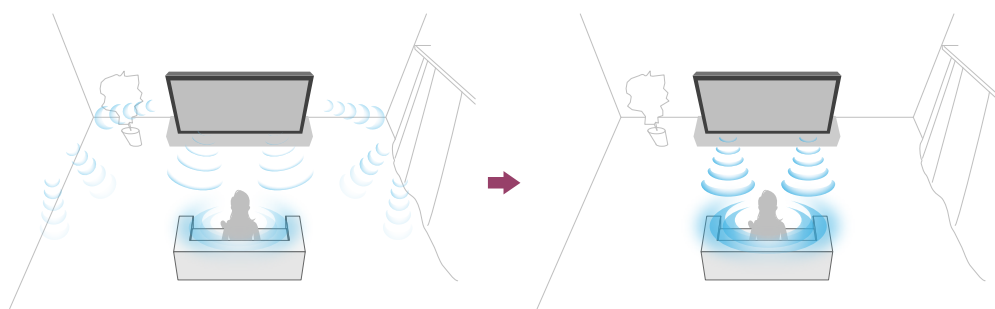
# Performing acoustic auto calibration

---

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.

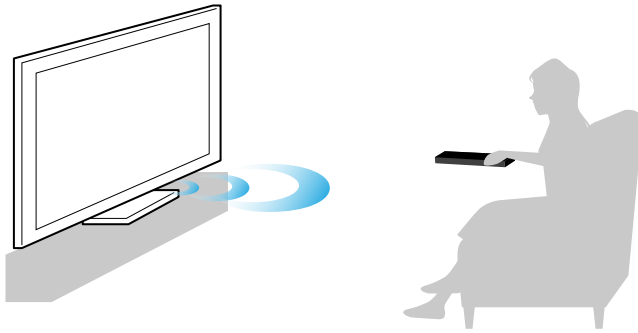
[Settings] — [Display & Sound] — [Audio output] — [Speakers] — [TV speakers]

- 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) 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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[11]

## Useful features

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[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 \(Security and restrictions\)](#)

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

---

[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 Google Assistant or MIC button.](#)

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

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

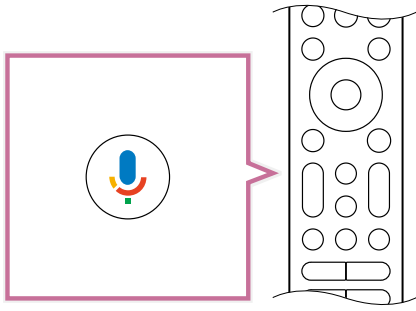
## Using the remote control microphone

---

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

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

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



## 2 Speak into the microphone while pressing and holding the Google Assistant or MIC 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.

# 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.

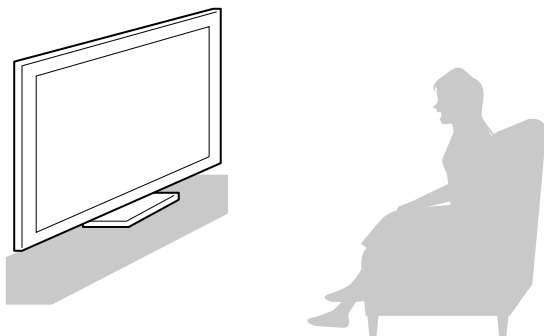
<https://www.sony.net/tv-hf/aep/>

## Hint

- The URL is subject to change without notice.

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

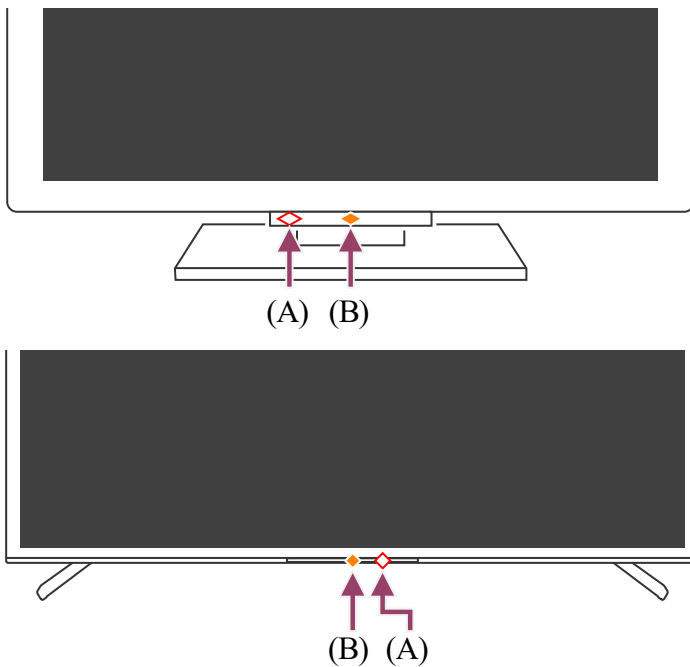
- Control your TV and smart home devices
- Enjoy music and entertainment
- Get answers
- Plan your day and manage tasks



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

When the voice function LED blinks white, start speaking.

The location of the LED varies by model.



- (A) The voice function LED is located at the bottom just left of centre or centre right of the TV.
- (B) The LED located at the bottom centre 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/Setup Guide.

**Note**


- An Internet connection is required to use the TV's built-in MIC.
- After turning on the built-in MIC switch on the TV, you need to press the MIC/Google Assistant button on the remote control to complete the setup, depending on your model/country/region. (Only models with the built-in MIC switch)
- Power consumption will increase when the built-in MIC is enabled as it is always listening.

**Hint**

- When the 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).
- With the TV's built-in MIC enabled, you can say "Ok 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 \(only models supplied with a buzzer built-in remote control\)](#).



- The TV's built-in MIC may pick up sound from the surroundings and respond unintentionally. You can use [Built-in MIC sensitivity] to change the mic sensitivity.

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

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

#### Related topics

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

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[15] Useful features

## Enjoying preferred apps

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[Installing apps](#)

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[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/🏠(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](#)

# 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 "Ok 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 for some models/countries/regions/languages.

- To find a remote control using the TV's built-in MIC, the TV must be on (in some languages, you can find a remote control using the TV's built-in MIC even if the TV is off).
- 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 and sign-in](#)
- [Using the built-in MIC on the TV \(only TVs with a built-in MIC\)](#)

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[18] Useful features

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

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

You can set the following [Parental controls] features 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 restrict features by setting the following.

### To set age restrictions on programmes

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

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

Set restrictions in [Parental controls] .

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

- 1 Press the  (Quick Settings) button on the remote control, and select the following in order.**  
[Settings] — [System] — [Parental controls] — [Apps]
- 2 Set or input the PIN.**
- 3 Enable [Restrict apps].**
- 4 Select the apps that you want to restrict from the app list.**  
Restricted apps will change from  (Unlocked) to  (Locked). To restrict all apps, select [All apps].

## To restrict the installation of apps from unknown sources

- 1 Press the  (Quick Settings) button on the remote control, and select the following in order.**  
[Settings] — [Privacy] — [Security and restrictions] — [Unknown sources] —  
change the setting in [Install unknown apps].

### Note

- If you change the [Security and 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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[19] Useful features

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

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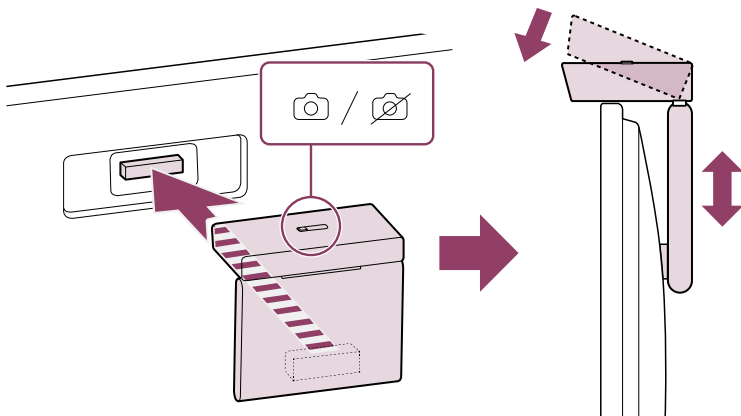
You can connect the supplied Camera and Microphone Unit (CMU-BC1M) or optional Camera and Microphone Unit (CMU-BC1) to the TV to enjoy video chat or set the optimum image and sound quality for the user's viewing position.

### Attaching and removing the Camera and Microphone Unit

#### Attaching

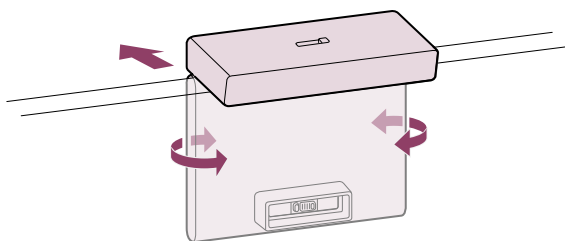
Attach the supplied Camera and Microphone Unit to the Camera port on the back of the TV.

You can adjust the angle and vertical position of the Camera and Microphone Unit.



#### Removing

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



### Hint

- For the optional Camera and Microphone Unit (CMU-BC1), attach it to the TV by following the instructions in the manual supplied with CMU-BC1.

### Note

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

## Setting the Camera sensing functions

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

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

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

### Available settings

---

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

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

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#### **[Brightness]**

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

---

#### **[Voice emphasis]**

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

---

#### **[Sound balance]**

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

---

### **[Proximity Alert]\***

Notifies you if the TV viewing distance is too close.

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

---

### **[Auto power saving mode]\***

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

---

### **[Gesture Control]\***

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

\* Future software updates may be required to use some features.

Some of the Camera sensing functions added by software updates are added to [Quick Settings](#), and you can turn On/Off features such as [Auto adjust picture and sound].

For details about software updates, see the [Software updates](#) page.

## **Hint**

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

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



[Watching TV programmes](#)

[Useful features when watching TV](#)

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

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[21] Watching TV

## Watching TV programmes

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[Understanding the information banner icons](#)

[Using the programme guide](#)

[Configuring channel settings](#)

[Using the TV menu](#)

[Using interactive broadcast TV services](#)

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[22] Watching TV programmes | Watching TV programmes

## Understanding the information banner icons

---

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

 :Data service (Broadcast application)


 :Radio service

 :Scrambled/Subscription service

 :Multilingual audio available

 :Subtitles available

 :Subtitles and/or audio available for the hearing impaired

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

 :Parental lock

AD :Audio available for the visually impaired

 :Spoken subtitle audio available

 :Multi-channel audio available

### Related topics

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


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[23] Watching TV programmes | Watching TV programmes

# Using the programme guide

---

You can quickly find your preferred programmes.

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

## Hint

- (TV box control compatible models only) If you perform the [TV box control setup] setting in [TV box setup] under [External inputs], you can display the programme guide of the TV box.

## Related topics

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

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[24] Watching TV programmes | Watching TV programmes

## Configuring channel settings

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[Receiving digital broadcasts](#)

[Receiving satellite broadcasts](#)


[Sorting or editing the channels](#)

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


## Receiving digital broadcasts

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- 1 Press the  (Quick Settings) button on the remote control, then select **[Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Auto tuning]**.

- 2 Follow the on-screen instructions to tune in all available digital channels and store them in the TV.

### To change the tuning range

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

---

#### [Normal]

Searches for available channels within your region/country.

---

#### [Extended]

Searches for available channels regardless of region/country.

#### Hint

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

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#### Related topics

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


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

## Receiving satellite broadcasts

---

If you have a satellite dish installed, you can view satellite broadcasts by configuring the tuner settings.

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Auto tuning] — [Set up] for subscribed satellite broadcasts.
- 2 Follow the on-screen instructions.

---


#### Related topics

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

## Sorting or editing the channels

---

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


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

### Note

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

### Editing the channel list with a smartphone

You can edit the channel list with your smartphone.

- 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel list edit from mobile device].**
- 2 Follow the on-screen instructions.**

## Using the TV menu

---

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

You can add favourite 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 programme 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 favourites, press the ▲ (Up) button on the remote control from the [TV menu] and add the channel to favourites from the displayed menu.
- You can use the TV button on the remote control to display the channels from the TV 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 TV box.

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

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

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

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## Using interactive broadcast TV services

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### To display text information

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

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

### About the Digital Text Information Service

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

### About the Digital Interactive Application Service

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

#### Note

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

## Useful features when watching TV

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### Timers

Use a timer to turn the TV on and off.

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

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## Parental lock

Use [Parental controls] to set parental restrictions.

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

---

## (Subtitle setting)

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

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## 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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[31] Watching TV

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# Changing the picture and sound quality to your preferences

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[Adjusting the picture quality](#)

[Adjusting the sound quality](#)

[“Sound” advanced settings](#)

[Advanced auto volume](#)

[Balance](#)

---

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

---

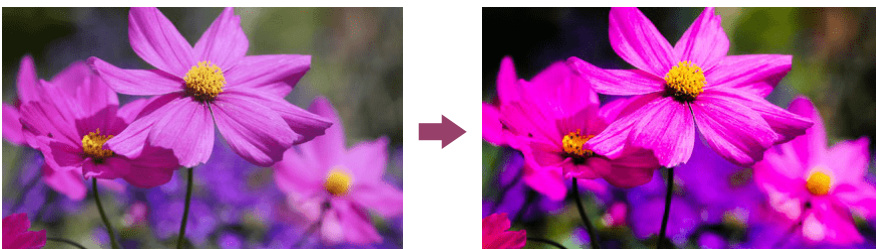
## Adjusting the picture quality


---

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

### Note

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



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

You can change the following settings.

## Picture

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

---

### Basic

You can set the following.

---

#### Picture mode

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

Optimises brightness according to ambient light.

---

#### Ambient light sensor

Automatically adjusts the brightness and colour 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.

---

### Colour

Adjust the colour 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].

---

### **Film mode**

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

---

## **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.

---

### **Colour space**

Change the colour reproduction range.

---

## **Adv. colour adjustment**

You can set the following.

---

### **Adv. colour temperature: Basic**

Finely adjust the colour temperature for each colour.

---

### **Adv. colour temperature: Multi point (\*\*\*)**

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

---

### **Per colour adjustment**

Adjust Hue, Saturation, and Lightness for each colour.

---

## **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.

---

## Vertical size

Stretch the picture vertically.

---

---

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

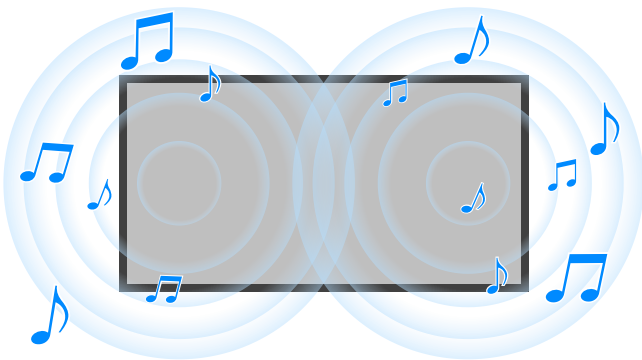
# Adjusting the sound quality


---

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.

For details, refer to [“Sound” advanced settings](#).

---

## Sound customisation

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

For details, refer to [“Sound” advanced settings](#).

---

## Volume level

Adjust the sound level of current input.

For details, refer to [“Sound” advanced settings](#).

---

## Advanced auto volume

Keeps the volume level constant for all programmes and inputs.

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

---

## Balance

Adjust the speaker balance.

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

---

## TV position

Change [TV position] based on the TV Installation.

---

## Acoustic auto calibration

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

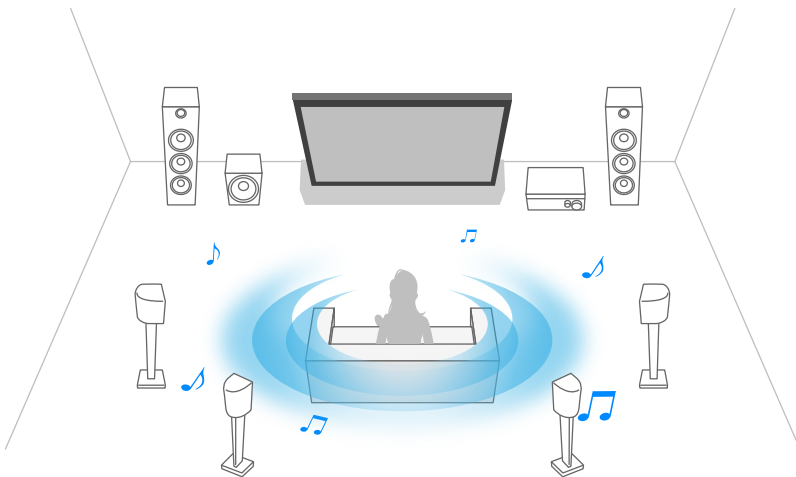
---

## Reset

Return all sound settings to factory default settings.

---

## Audio output



Configure to output sound from headphones or an audio system instead of the TV speakers.

You can configure settings such as those below.

---

## Speakers

Select TV or external speakers.

---

## TV centre speaker mode

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

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

---

### **Audio system prioritisation**

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

---

### **Home theatre 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.

---

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

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

\* Sony's Premium High Speed HDMI™ Cable(s) is recommended.

---

### **Digital audio out**

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

### **Hint**

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

### **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.)

## Hint

- Dolby Digital Plus is high quality surround sound processed by Dolby's acoustic technology.

---

### Pass through mode

Output audio signals to an audio system without decoding.

To use pass through mode as the connection method, refer to [Connecting an audio system](#).

### Related topics

- [“Sound” advanced settings](#)
- [Accessing audio system settings](#)

---

[34] 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
<b>Standard</b>	Optimise sound quality for general content.
<b>Dialogue</b>	Suitable for spoken dialogue.
<b>Cinema</b>	Optimise surround sound for movies.
<b>Music</b>	Lets you experience dynamic and clear sound, like that of a concert.
<b>Sports</b>	Simulates the larger space of a stadium or other venue.
<b>Dolby Audio</b>	Output sound processed by Dolby acoustic technology.

### [Sound customisation]

Setting	Description
<b>Surround</b>	Virtually reproduce realistic surround sound.
<b>Surround effect</b>	Adjust the surround sound effect.
<b>Equaliser</b>	Adjust sound based on different frequencies.
<b>Voice Zoom</b>	Emphasise voice.
<b>Dialogue enhancer</b>	Emphasise voice when [Sound mode] is set to [Dolby Audio].

### [Volume level]

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

#### Related topics

- [Adjusting the sound quality](#)

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

## Advanced auto volume

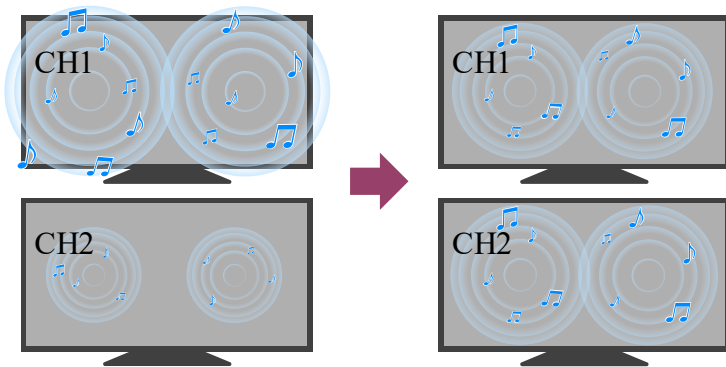
---

The volume is automatically adjusted to a certain level according to changes in the volume level of broadcasts and input signals.

Reducing the volume difference that occurs when switching channels or inputs allows you to

watch at a constant volume level. To enable this feature, press the  (Quick Settings) button on the remote control, then select the following settings.

[Settings] — [Display & Sound] — [Sound] — [Advanced auto volume]



### Note

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


---

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

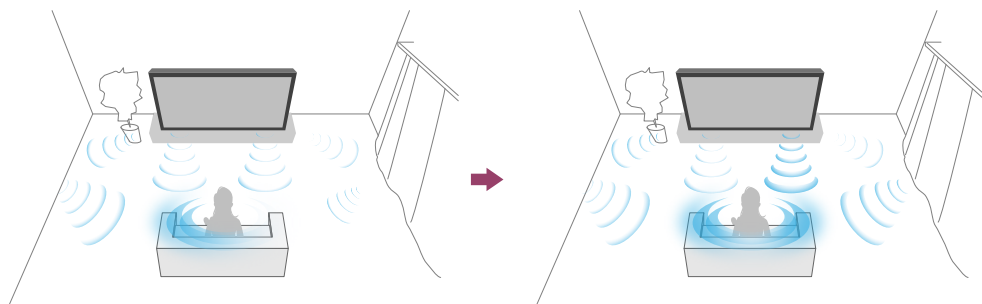
## Balance

---

Adjusts the balance of the left and right sound.

Due to the distance to walls and windows and the reflection of sound, you may hear the left and right sound become unbalanced. You can adjust the volume balance. To adjust the sound balance, press the  (Quick Settings) button on the remote control, then select the following settings.

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



### Note

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

---

[37]

## Recording TV Programmes

---

[Recording to a USB HDD device](#)

[Watching/deleting recorded content](#)

[Understanding the symbols displayed in the recorded title list](#)

---

[38] Recording TV Programmes

## Recording to a USB HDD device

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[Registering a USB HDD device](#)

[Timer recording](#)

[Information about using a USB HDD device for recording](#)

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[39] Recording to a USB HDD device | Recording to a USB HDD device

## Registering a USB HDD device

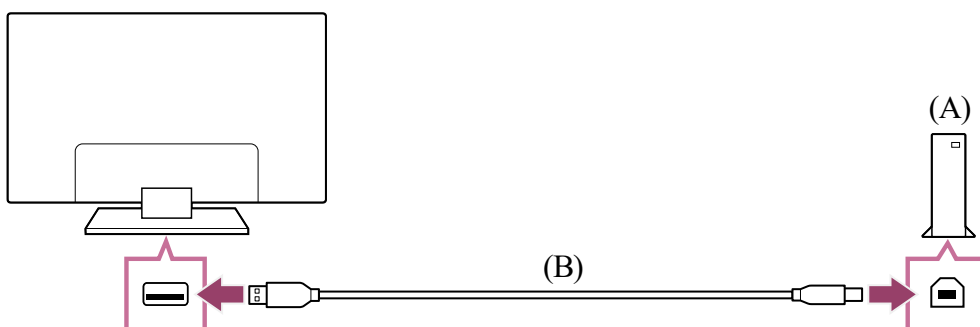
---

This function is available only in limited regions/countries/TV models.

USB HDD recording models have [Recording device setup] in [Settings] — [Channels & Inputs].

Connect and register a USB HDD device to your TV to record digital broadcasts.

Connect the USB HDD device to the TV's USB port labelled "HDD REC" (if there is a blue USB port, that port supports HDD recording).



(A) USB HDD device




(B) USB cable (not supplied)

- 1 **Connect a USB HDD device to the USB port (blue) labelled “HDD REC” on your TV.**
- 2 **Turn the USB HDD device on.**
- 3 **Wait until the screen [USB drive connected] is displayed.**  
If the message does not appear you can manually register the USB HDD device from the Settings menu.
- 4 **Select [Register for recording].**
- 5 **Follow the on-screen instructions to register the USB HDD device.**


### Note

- If the message “Can't detect a USB HDD for recording” is displayed during registration in step 4, follow the instructions in the message and check that the USB HDD device for recording is connected to the Super Speed USB port (blue).  
If the USB HDD device for recording is not recognised even after you have checked the connection, you must register the USB HDD device again because it may have already been registered as a device for purposes other than recording. Refer to "[The USB HDD device cannot be registered.](#)" to register the USB HDD device again for recording.

## To register a USB HDD device manually

- 1 **Press the  (Quick Settings) button on the remote control, and select the following.**  
[Settings] — [Channels & Inputs] — [Recording device setup] — [HDD registration].

## To deregister a USB HDD device

- 1 **Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Recording device setup] — [HDD deregistration] — the device to deregister.**

Related topics

- [Information about using a USB HDD device for recording](#)

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[40] Recording to a USB HDD device | Recording to a USB HDD device

## Timer recording



---

This function is only available in limited regions/countries/TV models.

USB HDD recording models have [Recording device setup] in [Settings] — [Channels & Inputs].



- 1 Press the **GUIDE**/ (Guide) button.
- 2 Select the desired programme in the programme guide, then select [Timer REC].
- 3 Select [Set timer].

### To manually set the timer by specifying date, time and channel

- 1 Press the  (Input select) button and select [Recorded Title List] (Recorded Title List). If [Recorded Title List] does not exist, select  [Edit] and add [Recorded Title List].
- 2 Select [Timer list/Timer settings] — [Set timer] — [Set timer manually].
- 3 Configure the timer setting.
- 4 Select [Set timer].

### To check, modify or delete timer settings

Checking, modifying, or deleting timer settings is performed in [Recording timer list].

- 1 Press the  (Input select) button and select [Recorded Title List] (Recorded Title List). If [Recorded Title List] does not exist, select  [Edit] and add [Recorded Title List].
- 2 Select [Timer list/Timer settings] — [Recording timer list], then change the settings.

## Hint

- Up to 32 timer settings can be created.
- If the recording fails, the reason will be listed in [Recording error list]. Select [Recording error list] in [Timer list/Timer settings].
- In the programme guide, you can move the focus to the desired programme and press the MENU button to display the Control menu, and select the [Rec].

## Note

- Timer recording will not work when the AC power cord (mains lead) is unplugged.

### Related topics

- [Watching/deleting recorded content](#)

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[41] Recording to a USB HDD device | Recording to a USB HDD device

## Information about using a USB HDD device for recording

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This function is only available in limited regions/countries/TV models.

USB HDD recording models have [Recording device setup] in [Settings] — [Channels & Inputs].

- The USB HDD device must be used exclusively for recording. Use a separate USB HDD device for viewing photos and videos.
- Only USB HDDs larger than 32 GB are supported.
- Connection of a USB HDD device via a USB hub is not supported. Connect the device directly to the TV.
- Any data stored in the USB HDD device will be erased when it is formatted during the registration process. The USB HDD device cannot be used with a PC once it has been registered to the TV. To enable use of the USB HDD device on a PC, format it on the PC. (Note that any data in the USB HDD device will be erased.)
- A maximum of 8 USB HDD devices can be registered.
- Only this TV will be able to play the data recorded on the USB HDD that has been registered to this TV.
- Recording is supported only for digital TV and radio broadcasts. Recording of data broadcasts is not supported.
- Scrambled/encrypted signals cannot be recorded.

- Recording cannot be performed in the following cases:
  - The TV cannot recognise the registered USB HDD device.
  - More than 1,000 programmes are recorded on the USB HDD device.
  - The USB HDD device is full.
- Automatic selection of the programme may not be possible while it is being recorded.
- Recording a programme is not possible unless its recording has been authorised.
- If using a Conditional Access Module (CAM), avoid using its parental rating protection, which may not work during recording. As an alternative, use programme block or the TV's own parental rating if it is supported by the broadcaster.
- In Norway, some programmes cannot be recorded due to legal restrictions.
- If the TV is subjected to impact during USB HDD recording, noise may occur in the recorded content.
- In no event shall Sony be liable for recording failure or any damage or loss of recorded content caused or associated with the TV's malfunction, signal interference, or any other problem.

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[42] Recording TV Programmes



## Watching/deleting recorded content

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




This function is only available in limited regions/countries/TV models.

USB HDD recording models have [Recording device setup] in [Settings] — [Channels & Inputs].

### To watch recorded content

- 1 Press the  (Input select) button and select [Recorded Title List] (Recorded Title List). If [Recorded Title List] does not exist, select  [Edit] and add [Recorded Title List], then select the content to be watched.

### To delete recorded content

- 1 Press the  (Input select) button and select [Recorded Title List] (Recorded Title List). If [Recorded Title List] does not exist, select  [Edit] and add [Recorded Title List].
- 2 Select the  (Delete icon) to the right of the programme you want to delete. To delete multiple programmes, select  (Delete multiple icon) to the right of all the programmes you want to delete, and then select  (Delete icon).

For information about the meaning of the symbols in the recorded title list, see [Understanding the symbols displayed in the recorded title list](#).

---

[43] Recording TV Programmes

## Understanding the symbols displayed in the recorded title list

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This function is only available in limited regions/countries/TV models.

 :Unviewed recording

 :Protected recording

 :Currently recording

---

[44]

## Using the TV with Other Devices

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[USB devices](#)

[Blu-ray and DVD players](#)

[TV box](#)

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

[Computers, cameras, and camcorders](#)

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

[Video game consoles](#)

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

[Bluetooth devices](#)

[BRAVIA Sync-compatible devices](#)

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

[BRAVIA Connectivity Guide](#)

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[45] Using the TV with Other Devices

## USB devices

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

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

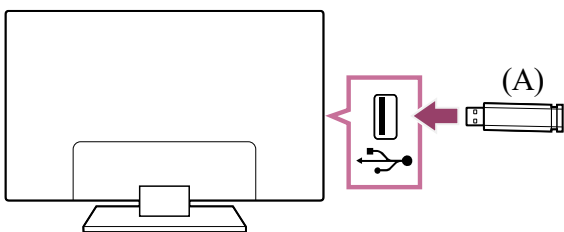
## Playing content stored on a USB device

---

To record programmes to a USB storage device or watch recorded programmes, see [Recording TV Programmes](#).

### 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 3.2 Gen 1, USB 3.1 Gen 1 or USB 3.0). USB hubs are not supported.
- While accessing the USB device, do not turn off the TV or USB device, do not disconnect the USB cable, and do not remove or insert recording media. Otherwise, data stored on the USB device may be corrupted.
- Depending on the file, playback may not be possible, even when using the supported formats.

## 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.](#)

---

[47] 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.

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### Related topics

- [Supported files and formats](#)

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[48] USB devices | USB devices

## Supported files and formats

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[Photos](#)

[Music](#)

[Videos](#)

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

[External subtitles](#)

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[49] 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 <sup>*1</sup>	*.arw

<sup>\*1</sup> ARW is only to be used for playing back files.

### Other supported files and formats

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

[50] 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 <sup>*1</sup>	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 <sup>*2</sup>	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](#)

# Videos

---

Use case : USB / Home Network

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

Subtitle Type : External

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

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

Subtitle Type : External

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

## MPEG2TS

Extension : \*.m2t

Subtitle Type : External

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

Extension : \*.m2ts / \*.mts

Subtitle Type : External

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

## MP4 (\*.mp4)

Subtitle Type : External

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

<b>Video Codec (Profile@Level)</b>	<b>Audio Codec</b>	<b>Max. / Min. Resolution</b>	<b>Max. Frame Rate</b>
Main10@L5.1	AAC v2 / AC3 / AC4 / E-AC3	(176x144)	

\*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

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

## Asf (\*.asf / \*.wmv)

Subtitle Type : External

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

## MKV (\*.mkv)

Subtitle Type : Internal / External

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

<b>Video Codec (Profile@Level)</b>	<b>Audio Codec</b>	<b>Max. / Min. Resolution</b>	<b>Max. Frame Rate</b>
	MPEG1L1 / MPEG1L2 / Vorbis		
AVC / H.264 BP@L5.2, MP@L5.2, HP@L5.2	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2	3840x2160 / QCIF (176x144)	3840x2160@60p / 1920x1080@120fps
HEVC / H.265 MP@L5.1, Main10@L5.1	DTS core / AC3 / AAC-LC / E-AC3 / HE-AAC v1 / HE- AAC v2	3840x2160 / QCIF (176x144)	3840x2160@60p / 1920x1080@120fps

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

Subtitle Type : External

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

### **MOV (\*.mov)**

Subtitle Type : External

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

## WebM (\*.webm)

Subtitle Type : External

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



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

### Other supported files and formats

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

[52] Supported files and formats | Supported files and formats | Supported files and formats

## Audio sampling rates (for videos)

<b>Audio Codec</b>	<b>Sampling Rate</b>
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

Audio Codec	Sampling Rate
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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[53] Supported files and formats | Supported files and formats | Supported files and formats

## External subtitles

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Use case : USB

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

### Other supported files and formats

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

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[54] Using the TV with Other Devices

## Blu-ray and DVD players

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

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

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# Connecting a Blu-ray or DVD player

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

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

## Note

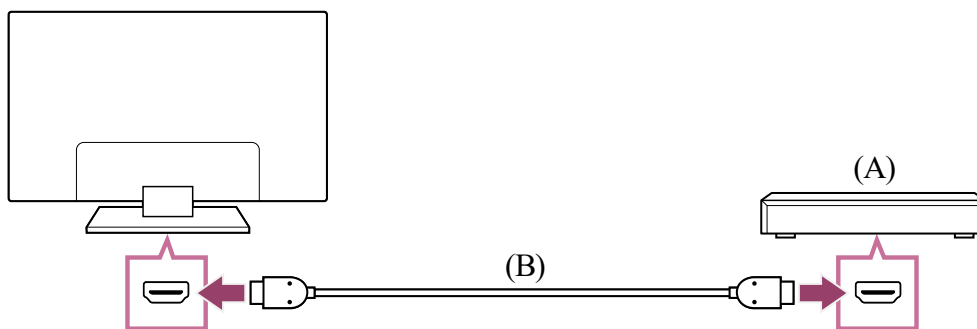
- The available terminals depend your model/region/country.

## Hint

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

## HDMI connection

For optimum picture quality, we recommend connecting your player to the TV using an HDMI cable. If your Blu-ray/DVD player has an HDMI jack (socket), connect it using an HDMI cable.



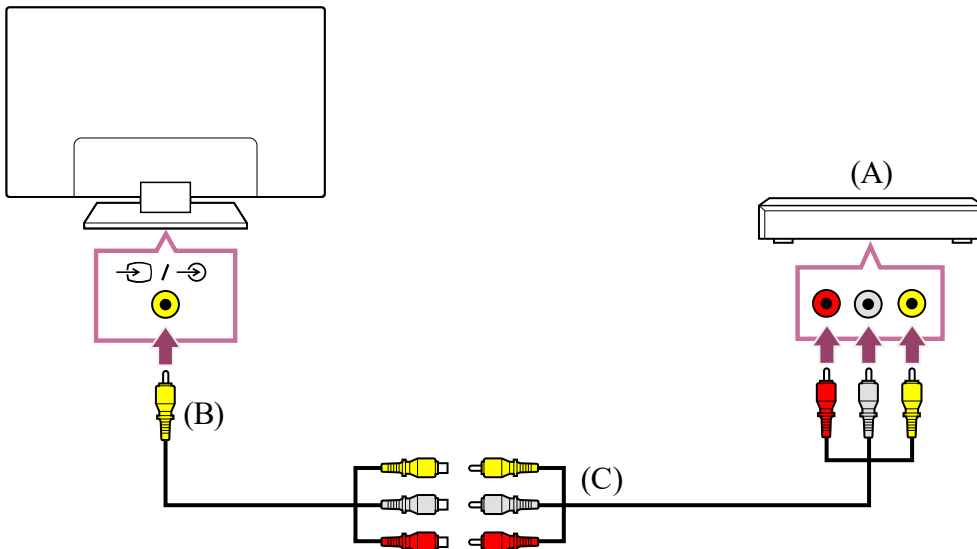
(A) Blu-ray/DVD player (same as connecting a TV box)

(B) HDMI cable (not supplied)\*

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

## 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 TV box)

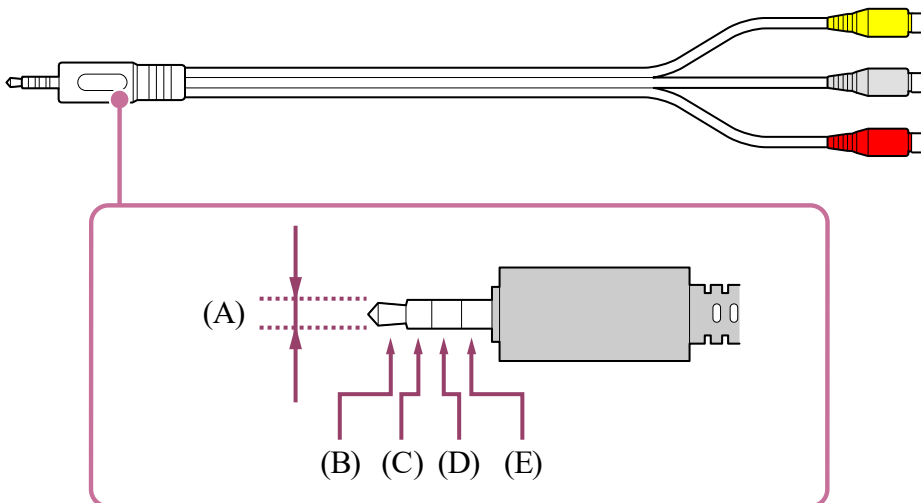
(B) Analogue Extension cable (supplied)\*

(C) RCA Cable (not supplied)

\* Whether the Analogue 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 Analogue 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](#)

## Watching Blu-ray and DVD discs

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

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

### Hint

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

#### Related topics

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

## TV box

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[Connecting a TV box](#)

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

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## Connecting a TV box

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Connect the TV box to the TV.

Connect it to the input on your TV.

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

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[59] TV box | TV box

## How to control the TV box using the TV remote control

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

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

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

### Note

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

### Related topics

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

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[60] Using the TV with Other Devices

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

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

## Using Chromecast built-in

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





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

### Note

- 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 select) button on the remote control, selecting  (AirPlay), and following the

on-screen instructions to setup Apple HomeKit.

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

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

## Note

- An internet connection is required to use AirPlay.
- Operation of a mobile device such as iPhone or iPad varies depending on the OS version.

### Related topics

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

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[61] Using the TV with Other Devices

## Computers, cameras, and camcorders

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

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

[Computer video signal specifications](#)

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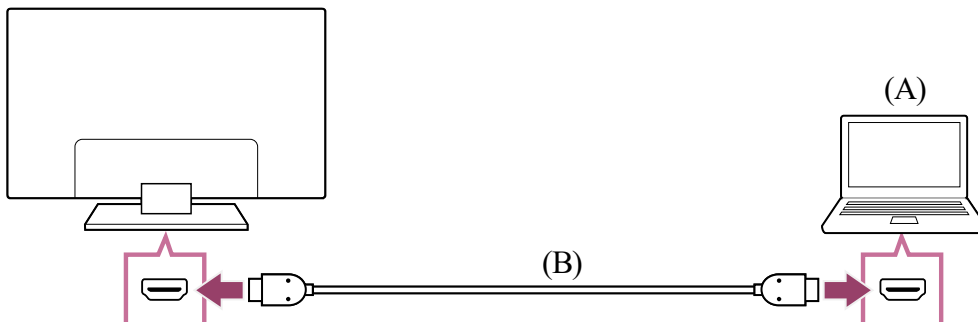
[62] Computers, cameras, and camcorders | Computers, cameras, and camcorders

## Connecting a computer and viewing stored content

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### To connect a computer

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



(A) Computer

(B) HDMI cable (not supplied)\*




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

### **To check the video signal specifications**

- [Computer video signal specifications](#)

### **To view content stored on a computer**

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

### **To check the supported file formats**

- [Supported files and formats](#)

#### **Note**

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

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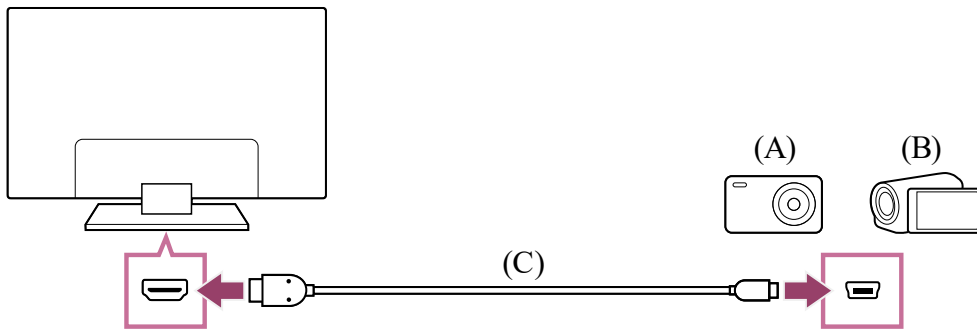
[63] Computers, cameras, and camcorders | Computers, cameras, and camcorders

## **Connecting a camera or camcorder and viewing stored content**

---

### **To connect a camera or camcorder**

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




(A) Digital still camera

(B) Camcorder

(C) HDMI cable (not supplied)\*

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

## To view content stored on a digital still camera/camcorder

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

## To check the supported file formats

- [Supported files and formats](#)

### Hint

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

### Related topics

- [BRAVIA Sync-compatible devices](#)

(Resolution, Horizontal frequency/Vertical frequency)

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

\* 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.)

### Hint

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

### Note

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

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[65] Using the TV with Other Devices

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

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[Outputting audio from an audio system](#)

[Connecting an audio system](#)

[Adjusting an audio system](#)

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

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

[Accessing audio system settings](#)

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[66] 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](#)

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

## Connecting an audio system

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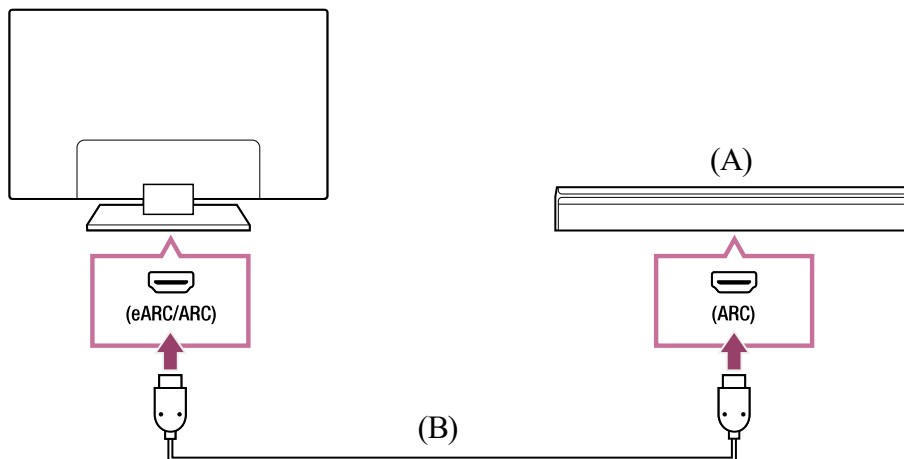
See the illustrations below to connect an audio system such as an AV receiver or sound bar.

## Note

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

## Sound bar connection

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



(A) Sound bar

(B) HDMI cable (not supplied)\*

\* We recommend Sony's Premium High Speed HDMI™ Cable(s).

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

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

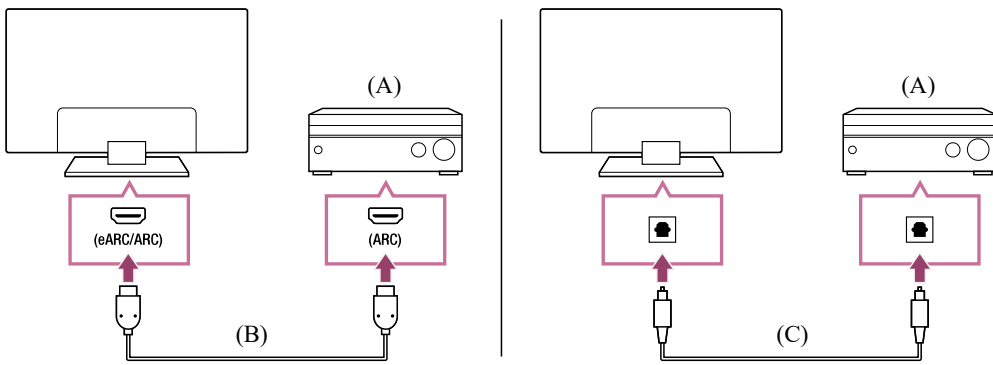
- Link the power state of the sound bar and TV
- Display and configure the sound bar settings on the TV

## Note

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

## Audio amp connection

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



(A) Audio amp

(B) HDMI cable (not supplied)\*

(C) Digital optical cable (not supplied)

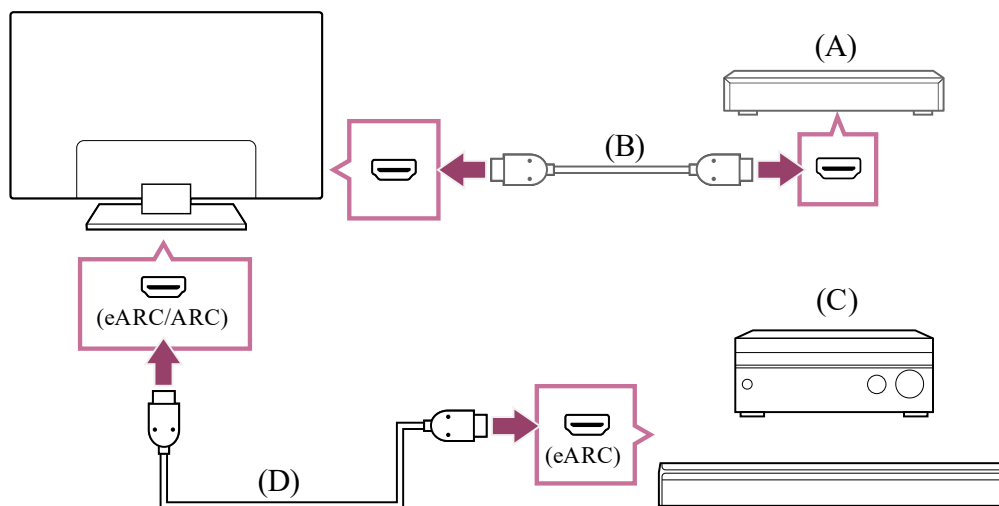
\* We recommend Sony's Premium High Speed HDMI™ Cable(s).

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

## HDMI connection (eARC supported)

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

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



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

(B) HDMI cable (not supplied)

(C) AV receiver or sound bar

(D) HDMI cable with Ethernet (not supplied)\*

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

- 2 Press the **⚙️ (Quick Settings)** button on the remote control, then select **[Settings] — [Display & Sound] — [Audio output] — [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**

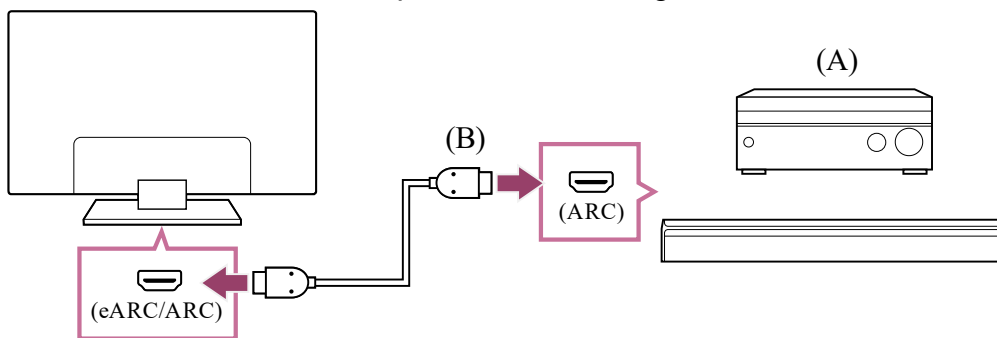
## Note

- 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).

## HDMI connection (ARC supported)

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

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



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

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

- 2 **Adjusting an audio system**

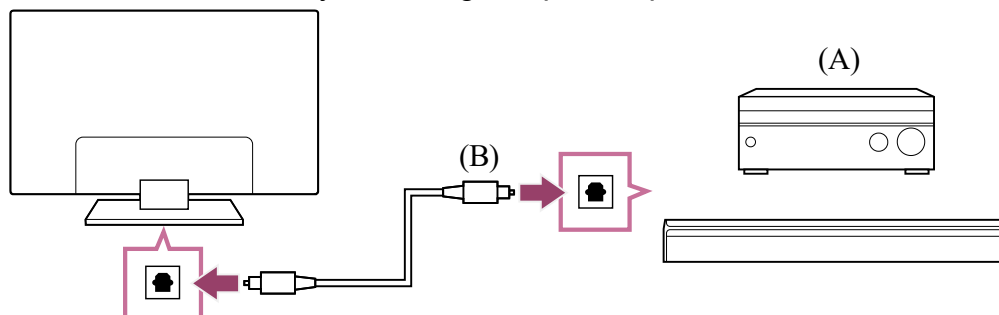
## Note

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

## Digital optical cable connection

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

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



(A) AV receiver or Sound bar

(B) Optical audio cable (not supplied)

### 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 theatre system.](#)

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


## Adjusting an audio system

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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 theatre system.](#)

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

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

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

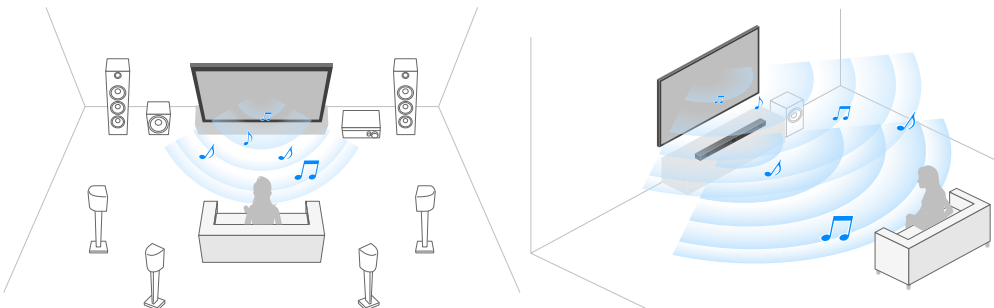
On TVs with S-CENTER SPEAKER IN input, you can use the TV as a centre speaker in the following cases.

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

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

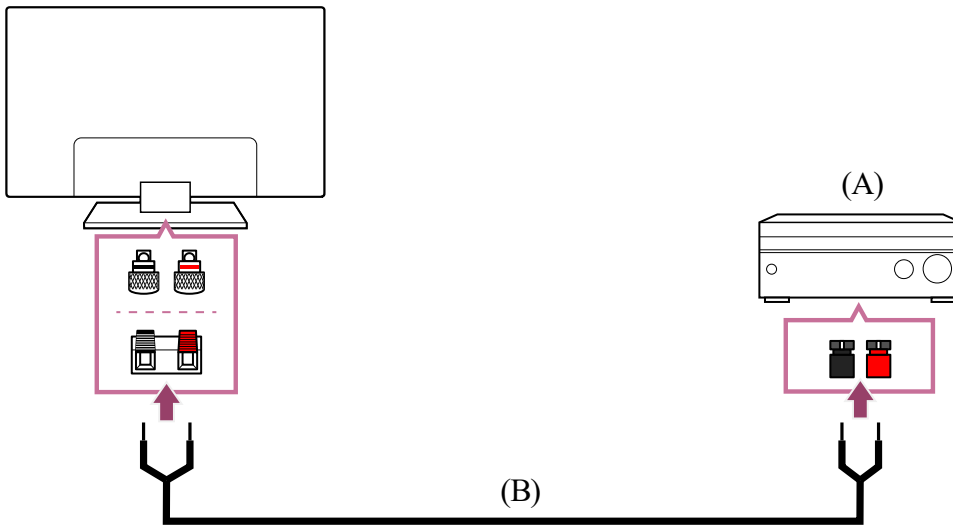
## Hint

- 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.



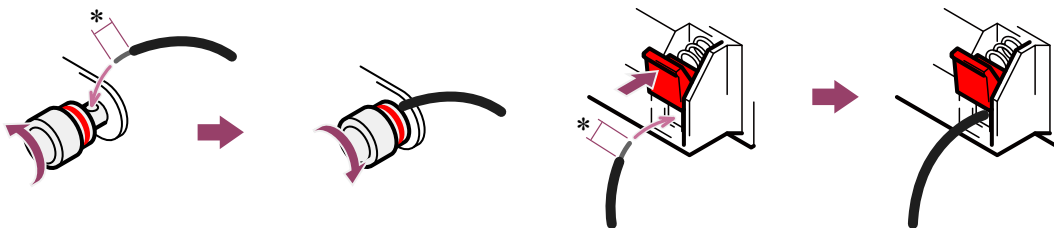
(A) AV receiver

(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.

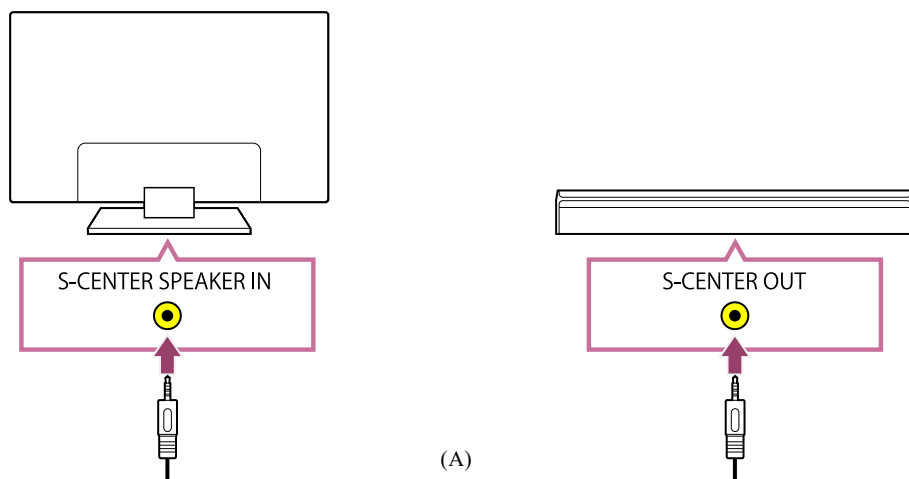
### Note

- 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 centre speaker mode cable supplied with sound bar/home theatre system.

When a sound bar is connected, centre 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 centre 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](#)

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[70] 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

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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](#)

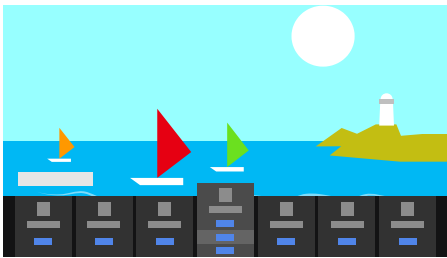
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[71] Audio system (such as an AV receiver or sound bar) | Audio system (such as an AV receiver or sound bar)

## Accessing audio system settings

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



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

For details about audio system settings, please refer to the manual of your audio system.

### Note

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

### Hint

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

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#### Related topics

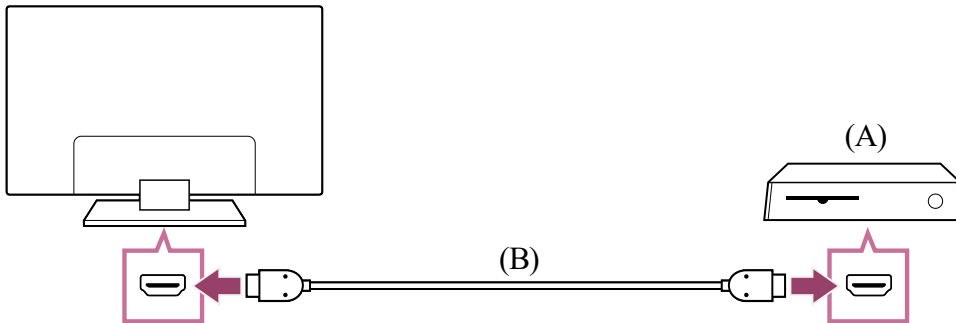
- [Connecting an audio system](#)

[72] 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 want to connect a video game console that supports 4K 120Hz, use the HDMI cable included with the game console, or an Ultra High Speed HDMI™ Cable.
- The type and position of the HDMI port differs depending on your TV. Refer to the documentation provided with the TV.

### Changing HDMI input settings

After connecting, set the connected HDMI input port.

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

### 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

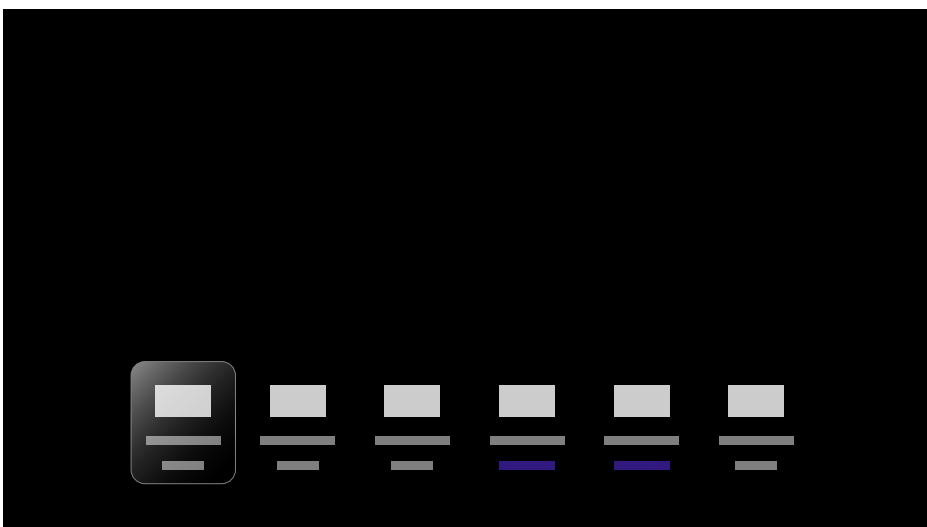
- If you connect a video game console that supports 4K 120 Hz video output, set to [Enhanced format (4K120, 8K)].
- If you connect a video game console that supports VRR, set to [Enhanced format (VRR)].

## 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 labelled 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.
- If [Enhanced format (VRR)] is set, slight brightness fluctuations (flicker) may occur on the TV screen depending on the frequency of the content output from the connected video game console.

## Game Menu

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



## Hint

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

## Note

- The number of options may change.
- Unsupported options are grayed out (not available).

### Related topics

- [Connecting terminal](#)

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[73] Using the TV with Other Devices

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

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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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[74] Using the TV with Other Devices

## Bluetooth devices

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[Connecting a Bluetooth device](#)

[Adjusting the AV sync setting](#)

[Supported Bluetooth profiles](#)

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[75] Bluetooth devices | Bluetooth devices

## Connecting a Bluetooth device

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## 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 and accessories] — [Pair accessory] to put the TV in pairing mode.

Available Bluetooth devices will be displayed.

- 3 Select the desired device, then follow the on-screen instructions.

If you are prompted to enter a passcode, refer to the instruction manual of the device.

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

## To connect to a paired Bluetooth device

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

- 2 Select a paired but unconnected device.


- 3 Select [Connect].

### 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.](#)

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.

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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[78] Using the TV with Other Devices

## BRAVIA Sync-compatible devices

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[BRAVIA Sync overview](#)

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

[Adjusting BRAVIA Sync settings](#)

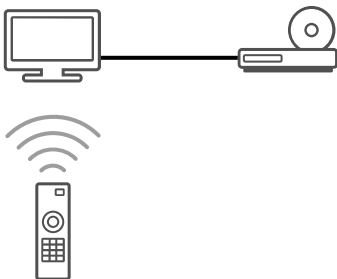
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[79] BRAVIA Sync-compatible devices | BRAVIA Sync-compatible devices

## BRAVIA Sync overview

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

# Using features available for BRAVIA Sync-compatible devices



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





## Blu-ray/DVD player

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

## AV receiver

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

## Video camera

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

### 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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[81] BRAVIA Sync-compatible devices | BRAVIA Sync-compatible devices

## Adjusting BRAVIA Sync settings

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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.)

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#### [Auto devices off]

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

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#### [Auto TV on]

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

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#### [BRAVIA Sync device list]

Displays the BRAVIA Sync device list.

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#### [Device control keys]

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

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### Related topics

- [BRAVIA Sync overview](#)

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

[82] Using the TV with Other Devices

## Viewing pictures in 4K from compatible devices

[Viewing pictures in 4K resolution](#)

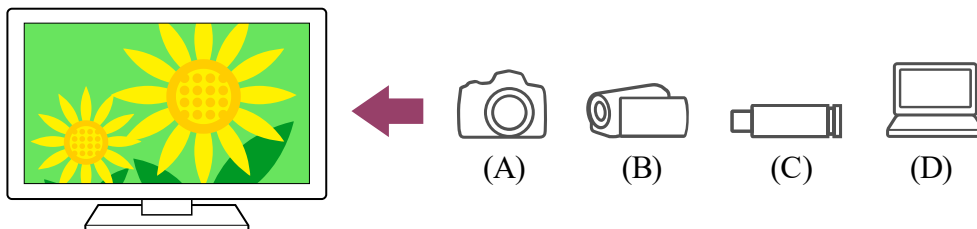
[Settings for viewing pictures through HDMI input with higher quality](#)

[83] 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 select) button repeatedly to select the connected device.
- 3 Set the connected device to 4K output.
- 4 Start playback on the connected device.

### To check the supported file formats

- [Supported files and formats](#)

### To view pictures in 4K resolution with higher quality

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

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

#### Note

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

#### Related topics

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

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


## Settings for viewing pictures through HDMI input with higher quality

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To display a picture from a device connected to the HDMI input terminal in a higher quality HDMI format<sup>\*1</sup>, set [HDMI signal format] in [External inputs].

<sup>\*1</sup> 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 for the HDMI input terminal to a suitable format below. Available HDMI signal formats depend on your model and the HDMI input.

- Standard format
- Enhanced format
- Enhanced format (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](#)



# BRAVIA Connectivity Guide

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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/](https://www.sony.net/tv_connectivity_guide/)

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[86]

## Connecting to a Network

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[Connecting to a network](#)

[Home network features](#)

[Viewing Internet content](#)

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[87] Connecting to a Network

## Connecting to a network

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

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

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[88] Connecting to a network | Connecting to a network

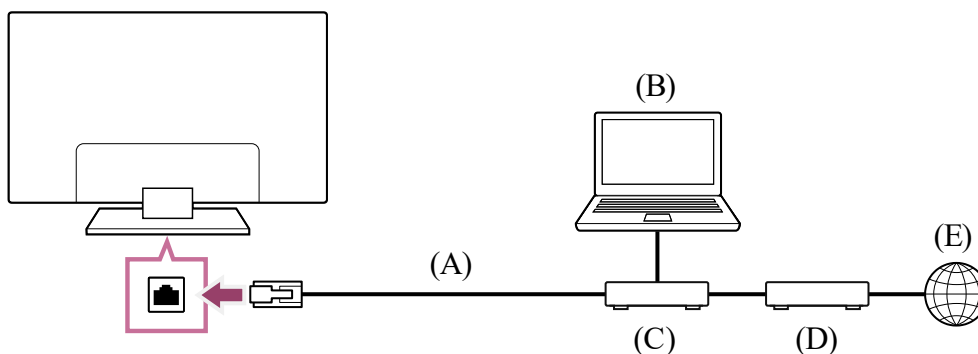
## Connecting to a network using a LAN cable

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### 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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[89] Connecting to a network | Connecting to a network

## Connecting to a network using a wireless connection

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

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

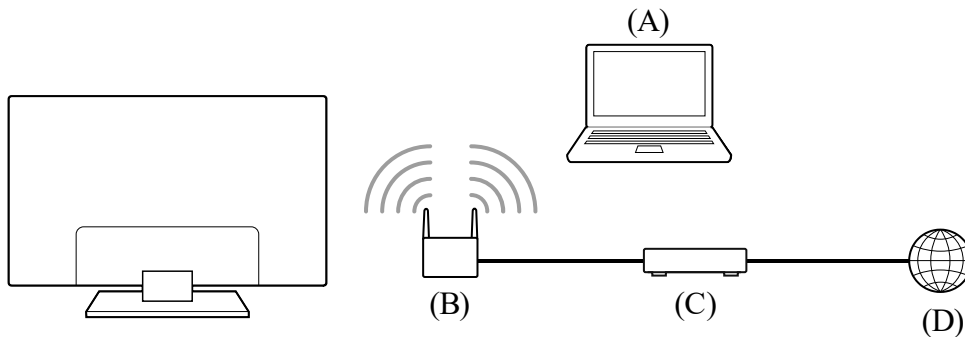
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[90] Connecting to a network using a wireless connection | Connecting to a network using a wireless connection | Connecting to a network using a wireless connection

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

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



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

## 1 Set up your wireless router.

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

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

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

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

## To turn off the built-in wireless LAN

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

## Hint

- For smooth video streaming:
  - Change the setting of your wireless router to a high-speed networking standard such as 802.11n or 802.11ac 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](#)

---

[91] 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)

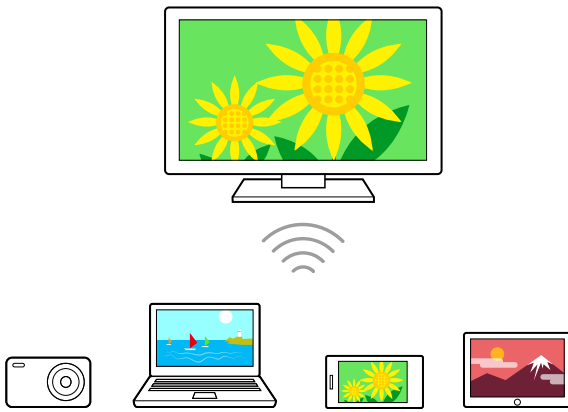
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You can connect a device to the TV wirelessly, without using a wireless router, and then stream videos, photos, and music that is stored on your device directly to the TV.

## 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 and 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 and 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.

---

[92] Connecting to a Network

## Home network features

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[Adjusting home network settings](#)

[Playing content from a computer](#)

[Playing content from a media server](#)

---

[93] Home network features | Home network features

## Adjusting home network settings

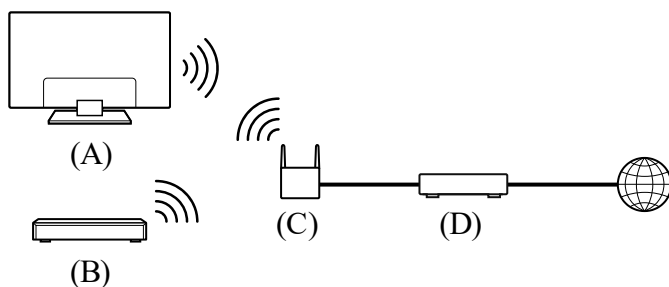
---

You can adjust the following home network settings.

### To connect to a server

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

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



(A) TV

(B) BD/DVD recorder

(C) Wireless LAN router

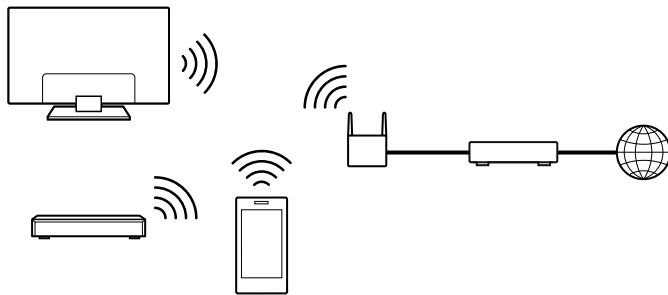
(D) Modem


### To check the server connection

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

## To use the renderer function

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



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

---

### [Renderer function]

Enable the renderer function.


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

---

### [Renderer access control]

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

## To use the remote device

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

---

### [Control remotely]

Enable operation of the TV from a registered device.

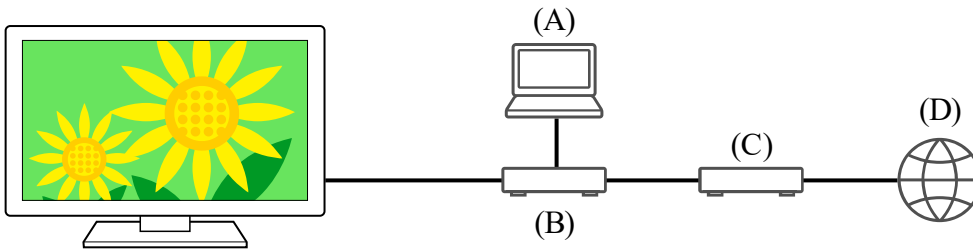
---

### [Deregister remote device]

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

---

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](#)

---

[95] Home network features | Home network features

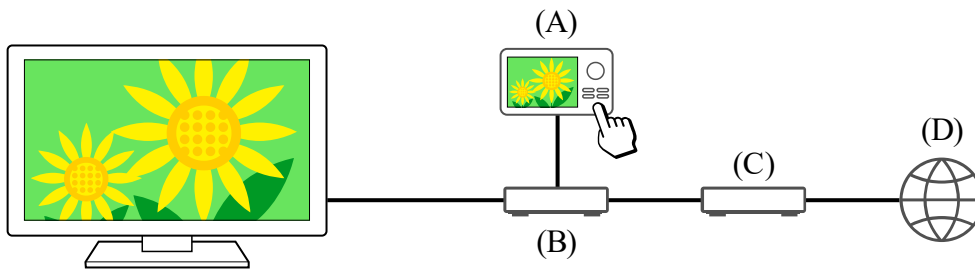
## Playing content from a media server

---

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](#)

---

[96] Connecting to a Network

## Viewing Internet content

---

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

### Note

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

### Hint

- Even if a Google Account is not setup on the TV, you can still see videos from, for example, YouTube displayed on the Home Menu, as long as the TV is connected to the

Internet. To install new apps such as those for video streaming services, you must setup/add a Google Account on the TV.

#### Related topics

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

---

[97]

## Settings

---

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

[Using the Quick Settings](#)

[Using the Eco Dashboard](#)

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

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

[Network and Internet](#)

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

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

[Apps](#)

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

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

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


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

---

[98] Settings

## Using the Quick Settings

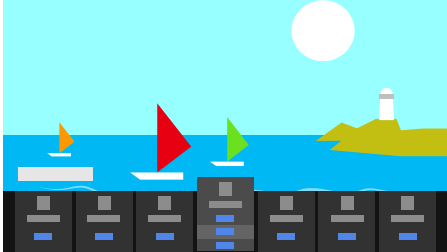
---


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.

---

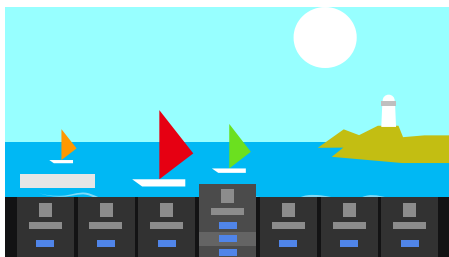
[99] Settings

## Using the Eco Dashboard

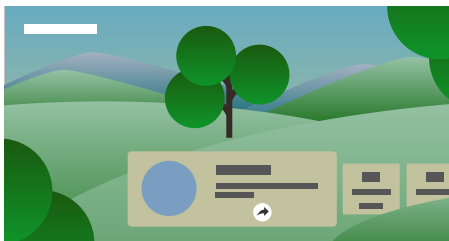
---

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

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



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



#### Related topics


- [Using the Quick Settings](#)

---

[100] 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. You can also configure the settings related to receiving satellite broadcast programming.

---

#### To tune digital channels

[Receiving digital broadcasts](#)

---

#### To tune your satellite

[Receiving satellite broadcasts](#)

---

#### To sort channels or edit the channel list

[Sorting or editing the channels](#)

---

### [Preferences (Channels)]

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

---

### [Info banner]

Display programme information when channel is changed.

---

### [External inputs]

Configures the settings of the external inputs and BRAVIA Sync.

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

---

### [Recording device setup]

Configures the settings of USB HDD devices for recording. (This option may not be available depending on your model/region/country.)

---

### [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.

---

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

---

[102] Settings

## Network and Internet

---

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

### Related topics

- [Connecting to a Network](#)
- 

[103] Settings

## Accounts and sign-in

---

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

### Available options

#### **When a Google Account is set on the TV**

Configure the Google Account or add other accounts.

#### **When a Google Account is not set on the TV**

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

---

[104] Settings

## Privacy

---

You can restrict the installation of apps from unknown sources.

---

## Apps

---

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

### Related topics

- [Installing apps](#)

## System

---

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

### Note

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

## Available options

---

### [Accessibility]

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

---

### [About]

Displays information about the TV.

Here, you can reset your TV

---

### [Date and time]

Configures the current time and auto clock display.

---

### [Language]

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

---

### [Keyboard]

Configures the settings of the on-screen keyboard.

---

### [Storage]

Changes the settings related to data storage.

---

### **[Ambient mode]**

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

---

### **[Power and energy]**

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

---

### **[Cast]**

Configures the operation permissions when casting from an external device.

---

### **[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].

---

### **[LED indicator]**

Configures the [Operational response] and [Voice detection status]<sup>\*</sup> 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.

---

### **[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.

<sup>\*</sup> Only TVs with a built-in MIC

---

[107] Settings

## Remotes and accessories

---

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



## Available options

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

---

### [Bluetooth]

Enables or disables Bluetooth.

---

### [Pair accessory]

Pairs Bluetooth devices.

---

### [BRAVIA CAM]

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

---

### [Remote control]

Setup for pairing the Voice Remote Control.

#### Related topics

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

---

[108] Settings

## Help and feedback

---

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

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


[109] Settings

## Timers & Clock

---

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

### Adding Timers & Clock to the input selection screen

- 1 Press the  (Input select) button.  
Available devices and apps are displayed at the bottom of the screen.
- 2 Press the  (Right) button on the remote control and select  (Edit).

### 3 Select Timers & Clock and press the Enter button.

Timers & Clock is added.

## To configure settings for Timers & Clock

### 1 Press the (Input select) button on the remote control and select the following.

[Timers & Clock] — the desired setting

## Available options

---

### [On timer]

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

---

### [Sleep timer]

Turns off the TV after a preset time.

---

### [Alarm]

Plays a sound after a preset time.

---

### [Clock display]

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

#### Related topics

- [Selecting inputs](#)

---

[110]

## Troubleshooting

---

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

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

[Keyboard](#)

[Broadcast reception](#)

[Sound](#)

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

[Remote control/accessories](#)

[Power](#)

[Connected devices](#)

[USB HDD recording](#)

## Start here

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[Self diagnostics](#)

[Software updates](#)

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



[Frequently Asked Questions for Troubleshooting](#)

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## Self diagnostics

---

### Check if the TV is working properly.

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

### Hint

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

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

### If the problem persists, try the following.



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

## Software updates

---

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

## To check for software updates automatically

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

### Hint

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

### Note

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

## Updating software via USB storage device

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

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[114] 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] — [Factory 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.

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[115] Start here | Start here

## Frequently Asked Questions for Troubleshooting

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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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[116] Troubleshooting

## Picture (quality)/screen

---

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

Distorted picture./The screen flickers.

High resolution HDR pictures are not displayed.


OLED panel (only models equipped with an OLED panel)


---

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


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

---

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

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

## Note

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

### Related topics

- [Display & Sound](#)

---

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




## Distorted picture./The screen flickers.

---

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

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

### Check the [Motion] setting

- Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture] — [Motion] — [Motionflow] — [Off].
- Change the current setting of [Film mode] to [Off].  
Press the  (Quick Settings) button on the remote control, and select [Settings] — [Display & Sound] — [Picture] — [Motion] — [Film mode].
- Check the [Analogue] settings.  
Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Manual tuning] — [Analogue].

- Disable [LNA] to improve picture reception. ([LNA] may not be available depending on your situation/region/country.)
- Perform [AFT] to improve picture for analogue reception.  
(Availability of [Analogue] and its options may vary depending on the region/country/situation.)

---

[119] 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.

---

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

## OLED panel (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)

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)

---

[121] 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.

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

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

---

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

### Hint

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

---

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

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

---

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

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

You can perform a [Panel refresh] when necessary.

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

### Hint

- [Pixel shift] is a feature that helps prevent image retention by automatically moving the image at fixed intervals. Under normal circumstances, keep this option enabled.

- To reduce image retention, we recommend that you turn off the TV on a daily basis for more than four hours using the remote control or the power button on the TV.

## Note

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

---

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

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

---

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

## Hint

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

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

---

[125] Troubleshooting

## Keyboard

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**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.

---

[126] Troubleshooting

## Broadcast reception

---

Check these things first to troubleshoot your TV reception.

You cannot view digital channels.

You cannot view satellite channels.

Some digital channels are missing.

---

[127] Broadcast reception | Broadcast reception

## Check these things first to troubleshoot your TV reception.

---

- Make sure that the antenna (aerial) cable is firmly connected to the TV.
  - Make sure that the antenna (aerial) cable is not loose or disconnected.
  - Make sure that the cable or cable connector of antenna (aerial) is not damaged.
- After moving to a new house or trying to receive new services, select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Auto tuning], and follow the on-screen instructions to reconfigure the necessary settings.
- 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](#)
- 

[128] 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 (aerial).

#### Related topics

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

---

[129] Broadcast reception | Broadcast reception

## You cannot view satellite channels.

---

- Ask a local installer if satellite services are provided in your area.
- Check the satellite cable connection.
- When [No signal. LNB overload detected. Please turn off your TV and check the satellite connection.] message is displayed, unplug the mains lead. Then, ensure the satellite cable is not damaged and the satellite signal line is not short-circuited in the satellite connector.
- Check your LNB device and settings.
- If your TV has both “MAIN” and “SUB” jacks (sockets), and is not set to satellite twin tuner , the jack (socket) labelled “SUB” cannot be used. In this case, connect your satellite antenna (aerial) to the jack (socket) labelled “MAIN.”


---

[130] Broadcast reception | Broadcast reception

## Some digital channels are missing.

---

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

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

---

#### [Normal]

Searches for available channels within your region/country.

---

#### [Extended]


Searches for available channels regardless of region/country.

### To update digital services

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

## Configuring automatic service updates

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

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

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

### Hint

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

#### Related topics

- [Check these things first to troubleshoot your TV reception.](#)
- [You cannot view digital channels.](#)

---

[131] Troubleshooting

## Sound

---

[No sound but good picture.](#)

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

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

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

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

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

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




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

---

[132] Sound | Sound

# No sound but good picture.

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- Check the antenna (aerial)/cable connection.
- Connect the TV to the AC power (mains), and press the power button on the TV or the remote control.
- Check the volume control.
- Press  (Mute) or  (Volume) + button to cancel muting.
- Press the  (Quick Settings) button, 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 theatre system.](#)

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[133] Sound | Sound

# No audio or low audio with a home theatre system.

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- 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].
- If you select an analogue (RF) channel and pictures are not displayed correctly, you will need to change the TV broadcast system. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Channels] — [Channel setup] — [Manual tuning] — [Analogue] — [TV system]. (Availability of [Analogue] or option name differs depending on the region/country/situation.)
- Check if the [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](#)

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[134] Sound | 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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### **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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[135] Sound | Sound

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

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### **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](#)

---

[136] 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].

---

[137] 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](#)

---

[138] 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]

---

[139] Sound | Sound

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

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

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

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[140] 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.


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

# The TV cannot connect to the Internet/Network.


---

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

- Press the  (Quick Settings) button on the remote control and check that the following setting is enabled.  
[Settings] — [Network and Internet] — [Wi-Fi]
- Check the installation location of the TV and wireless router. Signal condition may be affected by the following:
  - Other wireless devices, microwaves, fluorescent lights, etc., are placed nearby.
  - There are floors or walls between the wireless router and TV.
- Turn the wireless router off and then on again.
- If the network name (SSID) of the wireless router to which you want to connect is not displayed, select [Add new network] to enter a network name (SSID).

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

## Checking the status of the network connection

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


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

### Hint

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

### Note

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

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

### Related topics

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


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

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[142] 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 and time].
- Check that the LAN cable and AC power cord (mains lead) of the router/modem\* has been properly connected.  
\* Your router/modem must first be setup to connect to the Internet. Contact your Internet service provider for router/modem settings.
- Try using apps later. The app content provider's server may be out of service.

### Hint

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

### Related topics

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

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[143] Troubleshooting

## Remote control/accessories

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The remote control does not operate.

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

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[144] Remote control/accessories | Remote control/accessories

## The remote control does not operate.

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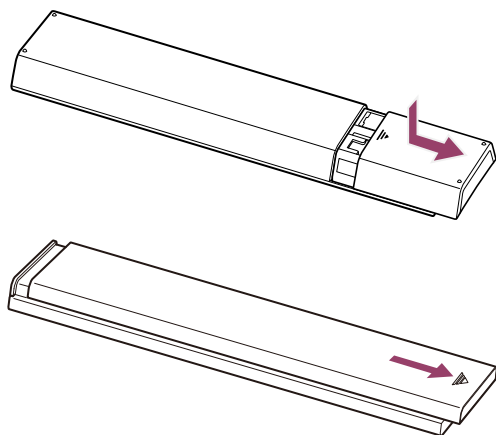
## Check if the TV is working properly

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

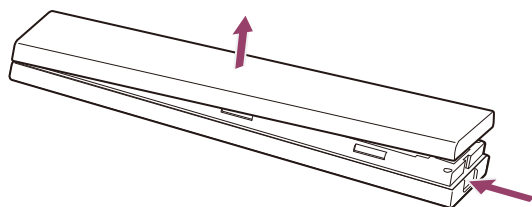
## Check if the remote control is working properly

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

### - Sliding type



### - Push-release type



## Note


- Remote controls with a Google Assistant or MIC button are connected to the TV using Bluetooth. Radio interference may occur in the following situations and cause issues such as poor operation of microphone or remote control because Bluetooth radio

waves use the same frequency as radio waves emitted from microwaves and wireless LANs (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 and accessories] — [Bluetooth] is disabled, enable it. If it is enabled, disable and then enable it again.

- Set wireless LAN access points and microwaves at least 10 m away from the TV
- If the 5 GHz band (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 and accessories] — [Remote control] — [Connect via Bluetooth] — [Connect a new remote] — follow the on-screen instructions to reconnect the remote control.

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

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

## Reset the remote control

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

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

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

## Note

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

### Related topics

- [Using the remote control microphone](#)

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[145] Remote control/accessories | Remote control/accessories

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

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You can turn off the remote control backlight.

- 1 **Press and hold the  (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.

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[146] Troubleshooting

## Power

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[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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[147] Power | Power

## The TV cannot be turned off using the remote

# control.

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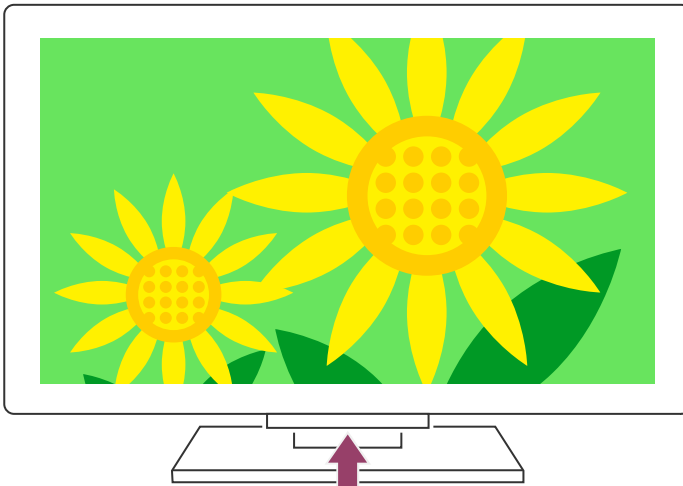
The batteries in the remote control may be depleted. Replace them with new ones or turn off the TV using the power button on the TV.

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](#)

- The screen may have been turned off due to [Sleep timer] settings.
- Check the [Duration] setting of [On timer].
- If the time set in [Turn off TV after] elapses, the power turns off automatically.

To check the settings, press the  (Quick Settings) button on the remote control and select the following in order.

[Settings] — [System] — [Power and energy] — [Energy saver] — [Turn off TV after]

#### Related topics

- [Timers & Clock](#)

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[149] Power | Power

## The TV turns on automatically.

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- Check if the [On timer] is activated.
- Disable the [Auto TV on] setting in [BRAVIA Sync settings].

#### Related topics

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

---

[150] Power | Power

## The TV does not turn on.

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Perform the procedures in the order below until the problem is solved.

### 1. Check if the TV turns on with the remote control.

Point the remote control at the sensor on the front of the TV and press the power button on the remote control.

Check if the TV turns on.

If the TV does not turn on, try resetting (restarting) the TV.

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

### 2. Check if the TV turns on with the power button on the TV.



Press the power button on the TV and check if the TV turns on.

For the location of the power button, refer to the Reference Guide/Setup Guide.

If the TV turns on with this procedure, there may be a problem with the remote control. Refer to the following topic.

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

### 3. Unplug the AC power cord (mains lead).

Unplug the TV power cord (mains lead) from the electrical outlet. Then press the power button on the TV and wait for 2 minutes, and plug the power cord (mains lead) back into the electrical outlet.

#### Hint

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

#### Related topics

- [The remote control does not operate.](#)
- [If a full reset \(restart\) of the TV is required](#)

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[151] Troubleshooting

## Connected devices

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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 TV box using the TV's remote control.](#)

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

[\(TV box control compatible models only\)](#)

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



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[152] Connected devices | Connected devices

## No picture from a connected device.

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- Turn the connected device on.

- Check the cable connection between the device and TV.
- Press the  (Input select) button to display the list of inputs, then select the desired input.
- Correctly insert the USB device.
- Make sure that the USB device has been properly formatted.
- Operation is not guaranteed for all USB devices. Also, operations differ depending on the USB device features or the video files being played.
- Change the HDMI signal format of the HDMI input that does not display a picture to standard format. Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [External inputs] — [HDMI signal format] — the HDMI input you want to set.

#### Related topics

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

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[153] [Connected devices](#) | [Connected devices](#)

## You cannot select a connected device.

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- Check the cable connection.

#### Related topics

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

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[154] [Connected devices](#) | [Connected devices](#)

## You cannot find a connected BRAVIA Sync HDMI device.

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- 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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[155] [Connected devices](#) | [Connected devices](#)

# You cannot turn off the TV box using the TV's remote control.

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

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[156] Connected devices | Connected devices

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

---

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

- Make sure that your TV supports the external device.
- If you press and hold a button on the remote control, the operation may not work. Instead, try pressing the button repeatedly.
- Depending on the external devices, some buttons may not work.

### Related topics

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

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[157] Connected devices | Connected devices

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

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- 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](#)

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[158] Troubleshooting

## USB HDD recording

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You cannot use a USB HDD device.

The USB HDD device cannot be registered.

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[159] USB HDD recording | USB HDD recording

## You cannot use a USB HDD device.


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- Check that the USB HDD device is:


- connected properly.

Check that it is connected to the blue USB port labelled as “HDD REC”.

- turned on.
- registered to the TV.

To register the USB HDD device to the TV, press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Recording device setup] — [HDD registration].

- Connecting the USB HDD device via a USB hub is not supported.
- Perform [HDD performance check] to verify whether the USB HDD's specifications meet the requirements.

Press the  (Quick Settings) button on the remote control, then select [Settings] — [Channels & Inputs] — [Recording device setup] — [HDD performance check].

#### Related topics

- [Information about using a USB HDD device for recording](#)

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[160] USB HDD recording | USB HDD recording


# The USB HDD device cannot be registered.

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- Check if the USB HDD device is connected to the USB port (blue) indicated as “HDD REC”.
- If the USB HDD device is properly connected to the blue USB port, register it for recording again because it is already registered as a device for purposes other than recording (such as storage).

## Note

- If there are devices connected to the USB1 and USB2 ports (only models with three USB ports), temporarily remove them while registering the USB HDD.
  - 1 Press the  (Quick Settings) button on the remote control, then select [Settings] — [System] — [Storage].
  - 2 From [Device storage], select the USB HDD device you want to register for recording.
  - 3 Select [Delete and format as removable storage], and then select [Format].
  - 4 Select [Register for recording].
  - 5 Follow the on-screen instructions to register the USB HDD device to the TV.
- Use [HDD performance check] to verify whether if the USB HDD device specifications meet the requirements.

To perform an [HDD performance check], press the  (Quick Settings) button on the remote control, and then select [Settings] — [Channels & Inputs] — [Recording device setup] — [HDD performance check].

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[161] Troubleshooting

## LED

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

The Operational response LED blinks in red.

---


[162] 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](#)

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[163] LED | LED

## The Operational response LED blinks in red.

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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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[164]

## Index/Other

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[Index](#)

[About the Help Guide](#)

[Help Guide structure](#)

[Specifications](#)

[Support Site](#)

[Keeping the TV updated](#)

[Trademark information](#)

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[165] Index/Other

## Index

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### TV programmes

- [GUIDE/ !\[\]\(e662c6fdc679f154c0e75d901761d894\_img.jpg\) \(Guide\)](#)
- [Interactive broadcasts](#)
- [Satellite broadcasts](#)
- [Recording](#)
- [Channel setup](#)
- [Parental lock](#)

### Picture/display

- [4K pictures](#)
- [HOME menu](#)
- [Picture](#)
- [Date and time](#)
- [Language](#)
- [Expert panel settings](#)
- [Pixel shift](#)
- [Panel refresh](#)

### Sound/voice

- [Voice search, using](#)
- [Sound](#)

### Remote control

- [Voice search](#)
- [HOME/ !\[\]\(029651ce9ee64da8525b17c64e266edc\_img.jpg\) \(HOME\)](#)
- [Quick Settings](#)
- [Inputs](#)
- [SYNC MENU](#)

### Connections

- [Bluetooth](#)
- [Chromecast](#)
- [BRAVIA Sync](#)
- [Internet](#)

## External devices

- [USB storage devices, recording with](#)
- [Blu-ray/DVD players, connecting](#)
- [USB memory devices, etc.](#)
- [Computers](#)
- [Digital cameras, camcorders](#)
- [Audio systems](#)

## Apps

- [YouTube™](#)
- [Netflix](#)

## File playback

- [Computers](#)
- [Supported files and formats](#)
- [Digital cameras, camcorders](#)

## Other

- [Restart](#)
- [Accessibility](#)
- [System software update](#)
- [Eco Dashboard](#)

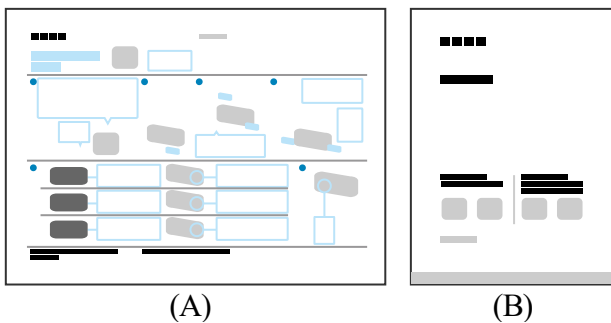
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[166] Index/Other

## About the Help Guide

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This Help Guide explains how to use this TV. You can also refer to the Setup Guide for descriptions about TV installation, and the Reference Guide for information such as specifications, and wall mounting of this TV.



(A) Setup Guide

(B) Reference Guide

## Help Guide versions



There are two versions of the Help Guide: the built-in version and the online version. The online Help Guide includes the latest information.

The online Help Guide is automatically displayed when the TV is connected to the internet, otherwise the built-in Help Guide is displayed.



## Help Guide structure

For details about the structure of the Help Guide, see the [Help Guide structure](#) page.

### Note

- To use the latest features described in the Help Guide, you may need to update the TV's software. For details about software updates, see the [Software updates](#) page.
- The names of settings in the Help Guide may differ from those displayed on the TV depending on the TV's release date or your model/country/region.
- The images and illustrations used in the Help Guide may differ depending on your TV model.
- Design and specifications are subject to change without notice.
- The Help Guide contains descriptions common across all models/regions/countries. Some descriptions of features do not apply depending on your model/region/country.

### Hint

- This Help Guide is written for all regions/countries. Some descriptions contained in this Help Guide do not apply to some regions and countries.

#### Related topics

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

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[167] Index/Other

## Help Guide structure

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The Help Guide is structured as follows.

## Getting Started

- [Remote control](#)
- [Connecting terminal](#)
- [How the LEDs light up](#)
- [Home menu](#)
- [Selecting inputs](#)
- [Performing acoustic auto calibration](#)
- [Accessibility features](#)

## 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 \(Security and restrictions\)](#)
- [Enjoying the Camera and Microphone Unit \(BRAVIA CAM supported models only\)](#)

## Watching TV

- [Watching TV programmes](#)
- [Useful features when watching TV](#)
- [Changing the picture and sound quality to your preferences](#)

## Recording TV Programmes

- [Recording to a USB HDD device](#)
- [Watching/deleting recorded content](#)
- [Understanding the symbols displayed in the recorded title list](#)

## Using the TV with Other Devices

- [USB devices](#)
- [Blu-ray and DVD players](#)
- [TV box](#)
- [Displaying the iPhone/smartphone or iPad/tablet app screen on the TV](#)
- [Computers, cameras, and camcorders](#)
- [Audio system \(such as an AV receiver or sound bar\)](#)
- [Video game consoles](#)
- [Experiencing 3D surround with a neckband speaker or headphones \(BRAVIA XR models only\)](#)

- [Bluetooth devices](#)
- [BRAVIA Sync-compatible devices](#)
- [Viewing pictures in 4K from compatible devices](#)
- [BRAVIA Connectivity Guide](#)

## Connecting to a Network

- [Connecting to a network](#)
- [Home network features](#)
- [Viewing Internet content](#)

## Settings

- [Using the Quick Settings](#)
- [Using the Eco Dashboard](#)
- [Channels & Inputs](#)
- [Display & Sound](#)
- [Network and Internet](#)
- [Accounts and sign-in](#)
- [Privacy](#)
- [Apps](#)
- [System](#)
- [Remotes and accessories](#)
- [Help and feedback](#)
- [Timers & Clock](#)

## Troubleshooting

## Index/Other

- [Index](#)
- [About the Help Guide](#)
- [Specifications](#)
- [Support Site](#)
- [Keeping the TV updated](#)
- [Trademark information](#)

# Specifications

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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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[169] Index/Other

## Support Site

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

<https://www.sony.eu/support/>

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[170] Index/Other

## Keeping the TV updated

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The TV acquires data such as programme guides while it is in standby/networked standby mode. To keep your TV updated, we recommend that you turn off the TV normally by using the power button on the remote control or TV.

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[171] Index/Other

## Trademark information

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### **Note**

- The availability of each service depends on your region/country.
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