

SONY.

BRAVIA

## Sony Reference Book

KDL-52S5100  
KDL-46S5100  
KDL-40S5100  
KDL-32S5100

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## Welcome to the Sony Online Reference Book

This manual is a part of Sony's eco-friendly initiatives to help reduce the consumption of natural resources. Use the printed Operating Instructions, the Quick Setup Guide, and this online Reference Book to fully enjoy your TV.

For the best online experience, use the latest version of [Firefox](#) or [Internet Explorer](#).

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## Getting Started

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- [Locating Inputs and Outputs](#)
- [Connecting the TV](#)
- [Initial Setup](#)



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## Installing the TV

This TV can be mounted on a wall using a Wall-Mount Bracket or placed on a TV stand (each sold separately). This section will explain:

- [Carrying the TV](#)
- [Preparation for a Table-Top stand](#)
- [Preparation for a Wall-Mount Bracket](#)
- [Installing the Wall-Mount Bracket](#)
- [Installation against a wall or enclosed area](#)
- [Bundling the connecting cables](#)
- [Securing the TV](#)



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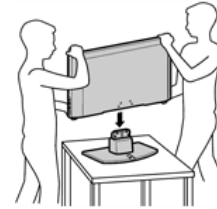
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## Carrying the TV

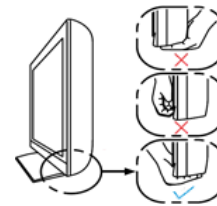
Some TV models are packaged with a detached Table-Top Stand so you can mount it to a wall right away. If you are not mounting the TV to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver and the supplied screws to complete the task. Look for the instructions attached to the TV unit.

Be sure to consider the following while setting up your TV:

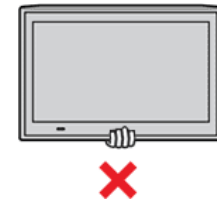
- Carry the TV with an adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damages.
- Ensure your TV has adequate ventilation if it is installed against a wall or in an enclosed area.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid installing the TV in a room with reflective wall and floor materials.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the TV to show poor picture and/or poor color. Should this occur, allow moisture to evaporate completely before powering the TV on.



- Be sure to hold the bottom of the panel, and not the transparent part, speaker, or speaker grill area. Do not compress the panel's speaker grill area.



- Do not lift the TV from the bottom center.



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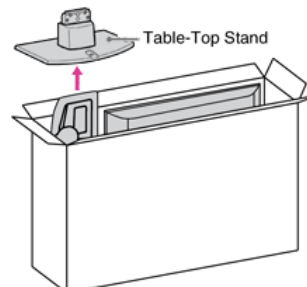
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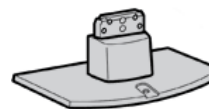
## Preparation for a Table-Top Stand

Follow the assembling steps required to place on a TV stand (except model, KDL-52S5100).

- 1) Remove the Table-Top Stand from the carton and the four screws from the bag attached to the Table-Top Stand. For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV.

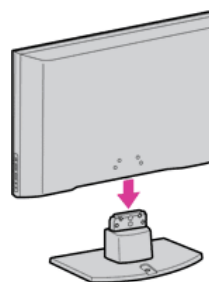


- 2) Place the Table-Top Stand on a level and stable surface.

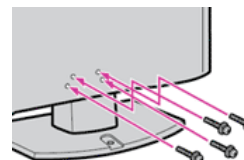


- 3) Gently slide the TV unit onto the neck of the Table-Top Stand and align the screw holes.

- Do not put stress on the LCD panel or the frame around the screen.
- Be careful to not pinch your hands or the AC power cord when you install the TV unit to the Table-Top Stand.



- 4) Use the supplied screws to attach the TV unit to the Table-Top Stand (refer to the "Attaching the Table-Top Stand" flyer). If an electric screwdriver is used, set the torque to tighten at approximately 1.5 N·m, 15 Kgf·cm.



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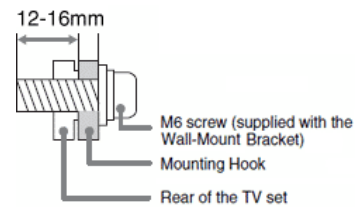
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## Preparation for a Wall-Mount Bracket

All models are ready to be mounted on a wall. Model KDL-52S5100 will require detaching the Table-Top stand.

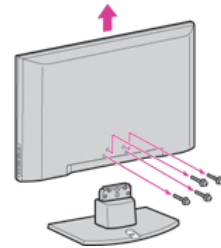
- For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and the wall-mounting of your TV should be performed by a Sony dealer or licensed contractor.
- Use your TV with the Sony Wall-Mount Bracket Model number: SU-WL500
- For bracket installation, refer to the instruction guide provided by the Wall-Mount Bracket model for your TV.
- Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV's weight.
- Be sure to use the screws supplied with the Wall-Mount Bracket when attaching the mounting hooks to the TV set. The supplied M6 screws are designed so that they are 12 mm to 16 mm in length when measured from the attaching surface of the mounting hook. The diameter and length of the screws differ depending on the Wall-Mount Bracket model. Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.
- Be sure to store the unused screws and Table-Top Stand in a safe place until you are ready to attach the Table-Top Stand. Keep the screws away from small children.



For details on how to use the Wall-Mount Bracket compatible with your model, visit [www.sony.com/accessories](http://www.sony.com/accessories) Or call 1-800-488-7669 (for United States) 1-877-899-7669 (for Canada)

Follow the simple steps below to remove the Table-Top Stand:

- 1) Unplug the AC power cord and disconnect all the cables from the TV.
- 2) Secure the Mounting Hook to the rear of the TV.
- 3) Adjust the angle of the Mounting Hook.
- 4) Remove the screws on the rear of the TV (see illustration). Do not remove any other screws from the TV.
- 5) When screws are removed, lift the TV off the stand. Make sure that you carry out this task with at least two or three people. Do not attempt to lift the TV by yourself.



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## Installing the Wall-Mount Bracket (Page 1)

### To Customers

Your TV can be wall-mounted using a Wall-Mount Bracket (sold separately).

**Use your TV with the Sony Wall-Mount Bracket Model number: SU-WL500**

For product protection and safety, Sony strongly recommends that you use the Wall-Mount Bracket designed for your TV and wall-mounting is performed by a Sony dealer or a licensed contractor. Do not attempt to install it yourself. Sony is not liable for any damage or injury caused by mishandling or improper installation.

Please provide your licensed contractor with this installation information as well as instructions supplied with the Wall-Mount Bracket.

### To Sony Dealers and Licensed Contractors

To avoid injury and property damage, read these instructions carefully. Periodic inspection and maintenance is highly recommended to ensure that TV is securely mounted.

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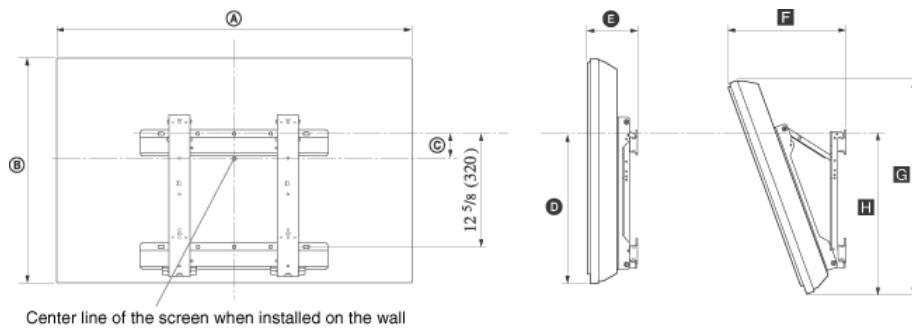


## Installing the Wall-Mount Bracket (Page 2)

### Installing the Wall-Mount Bracket and Mounting Hooks

- 1) Open the Wall-Mount Bracket package and check for all the required parts including the instruction.
- 2) See the Installation Dimensions Table to determine the best location for wall-mounting. The wall must be strong enough to support at least four times the weight of the TV. Also refer to the instruction provided with your Wall-Mount Bracket.

- The installation dimensions may differ according to how the TV is installed.
- The wall must be strong enough to support at least four times the weight of the TV that you are installing.



- 3) Install the Base Bracket on the wall. Refer to the instruction provided with your Wall-Mount Bracket.

Installation dimensions table

Unit: mm (Inches)		TV model	KDL-32S5100	KDL-40S5100	KDL-46S5100	KDL-52S5100
TV dimensions		A	798 (31 1/2)	987 (38 7/8)	1123 (44 1/4)	1262 (49 3/4)
		B	536 (21 1/8)	636 (25 1/8)	723 (28 1/2)	822 (32 3/8)
Screen center dimensions		C	172 (6 7/8)	122 (4 7/8)	84 (3 3/8)	39 (1 9/16)
Length for each mounting angle	Angle (0°)	D	463 (18 1/4)	463 (18 1/4)	471 (18 5/8)	478 (18 7/8)
		E	143 (5 3/4)	147 (5 7/8)	150 (6)	169 (6 3/4)
	Angle (20°)	F	291 (11 1/2)	328 (13)	358 (14 1/8)	407 (16 1/8)
		G	511 (20 1/8)	604 (23 7/8)	685 (27)	778 (30 3/4)
		H	492 (19 3/8)	493 (19 1/2)	502 (19 7/8)	515 (20 3/8)
Weight		TV	11.9kg (26.3Lbs)	16.8kg (37.1Lbs)	22.6kg (49.8Lbs)	29.9kg (65.9Lbs)
		x4	47.6kg (106Lbs)	67.2kg (149Lbs)	90.4kg (200Lbs)	119.6kg (264Lbs)

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## Installing the Wall-Mount Bracket (Page 3)

### Installing the Wall-Mount Bracket and Mounting Hooks

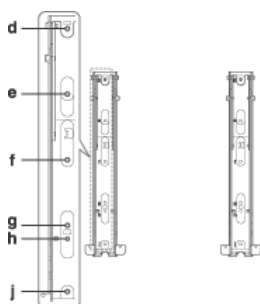
- 4) Disconnect all cables and remove the Table-Top Stand.
- 5) Install Mounting Hooks on the TV.

#### Screw and Hook Locations Diagram

TV Model	Screw Location	Hook location
KDL-32S5100	e, g	c
KDL-40S5100	d, g	b
KDL-46S5100	d, g	b
KDL-52S5100	d, g	b

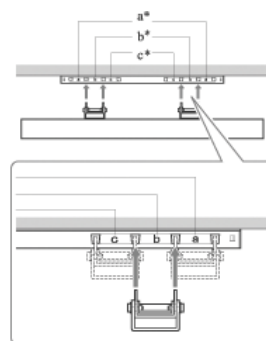
#### Screw location

When installing the Mounting Hooks on the TV



#### Hook location

When installing the TV onto Base Bracket.



\* Hook position "a" and "c" cannot be used for the models KDL-40S5100/KDL-46S5100/KDL-52S5100.

\* Hook position "a" and "b" cannot be used for the model KDL-32S5100.

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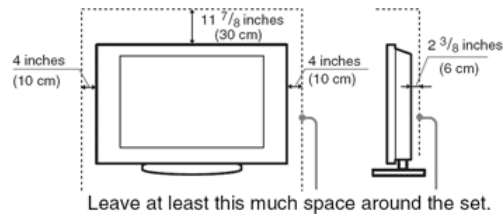
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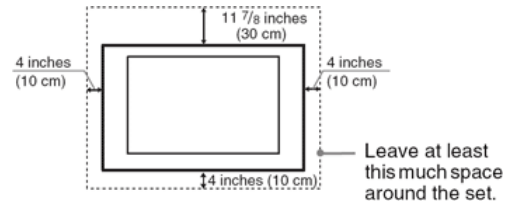
## When Installing the TV Against a Wall or Enclosed Area

Make sure that your TV has adequate air circulation. Allow enough space around the TV as shown below. Avoid operating the TV at temperatures below 41 °F (5 °C).

### Installed with stand

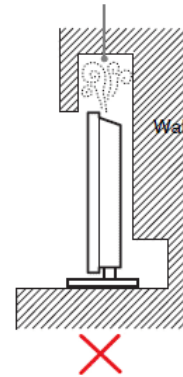


### Installed on the wall

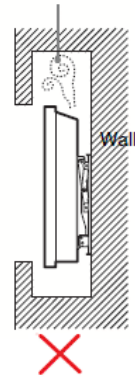


### Never install the TV set as follows:

Circulation is blocked.



Circulation is blocked.



- Inadequate air circulation can lead to overheating of the TV and may cause damage to your TV or cause a fire.

### Consider the following for best picture quality

- Do not expose the screen to direct illumination or sunlight.
- Use spot lighting directed down from the ceiling or cover the windows that face the screen with opaque drapery.
- Install the TV in a room where the floor and walls are not of a reflective material.
- When moving the TV from a cold area to a warm area, a sudden room temperature change may cause the TV's picture to blur or show poor color due to moisture condensation. Should this occur, please wait a few hours to allow the moisture to evaporate before powering on the TV.

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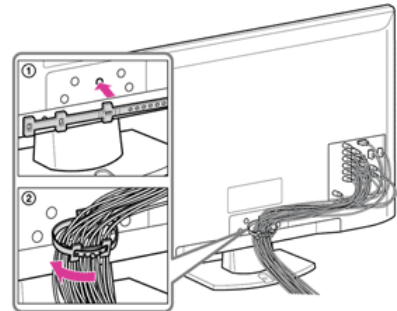
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## Bundling the Connecting Cables

You can bundle the connecting cables as illustrated.

- Do not bundle the AC power cord with other connecting cables.



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## Securing the TV (Page 1)



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

### Prevent the TV from Toppling Over

- Secure the TV to a wall and/or stand.
- Do not allow children to play or climb on furniture and TV sets.
- Avoid placing or hanging items on the TV.
- Never install the TV on:
  - slippery, unstable and/or uneven surfaces.
  - furniture that can easily be used as steps, such as a chest of drawers.
- Install the TV where it cannot be pulled, pushed, or knocked over.
- Route AC power cord and connecting cables so that they are not accessible to curious children.

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## Securing the TV (Page 2)

### Use a Sony TV Stand

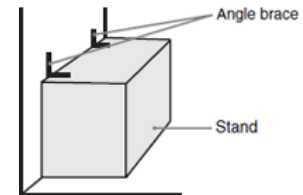
Use a Sony specified TV stand and follow the instruction manual provided with the Sony TV stand.  
If a Sony specified TV stand is not used, consider the following recommended measures.

### Recommended Measures to Secure the TV

#### Secure the Stand for the TV

Make sure the TV stand can adequately support the weight of the TV. Use two angle braces (not supplied) to secure the stand. For each angle brace use the appropriate hardware to:

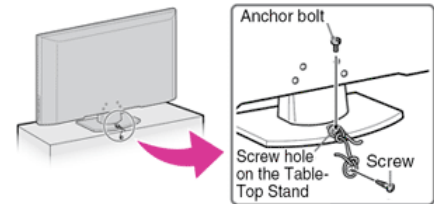
- Attach one side of the angle brace to the wall stud.
- Attach the other side to the TV stand.



#### Secure the TV to the Stand

Use the optional hardware listed below (not supplied):

- M4 × 10-12 mm anchor bolt (screwed into the TV's Table-Top Stand)
- A screw or similar (attach it to the TV stand)
- Rope or chain (strong enough to support the weight of the TV).  
Make sure that there is no excess slack in the rope or chain.



An alternative way to secure the TV is with an optional Sony Support Belt Kit.

- Contact Sony Customer Support to purchase the optional Support Belt Kit by providing your TV model name.
- For United States call: 1-800-488-7669 or visit: [www.sony.com/accessories](http://www.sony.com/accessories)
- For Canada call: 1-877-899-7669

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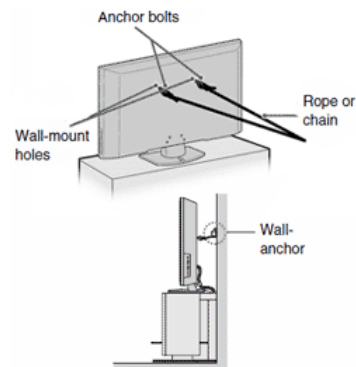


## Securing the TV (Page 3)

### Anchor the TV to the Wall

Use the hardware listed below (not supplied):

- Two M6 × 12-16 mm anchor bolts (screw into the top-most wall-mount holes located on the rear of the TV)
  - Rope or chain (attach to one M6 anchor bolt)
  - Wall-anchor (attach to the wall stud) strong enough to support the weight of the TV (pass the rope through the wall-anchor, then attach to the other M6 anchor bolt)
- Securing the TV to the stand without securing it and the stand to the wall provides minimum protection against the TV toppling over. For further protection, follow all three measures recommended above.



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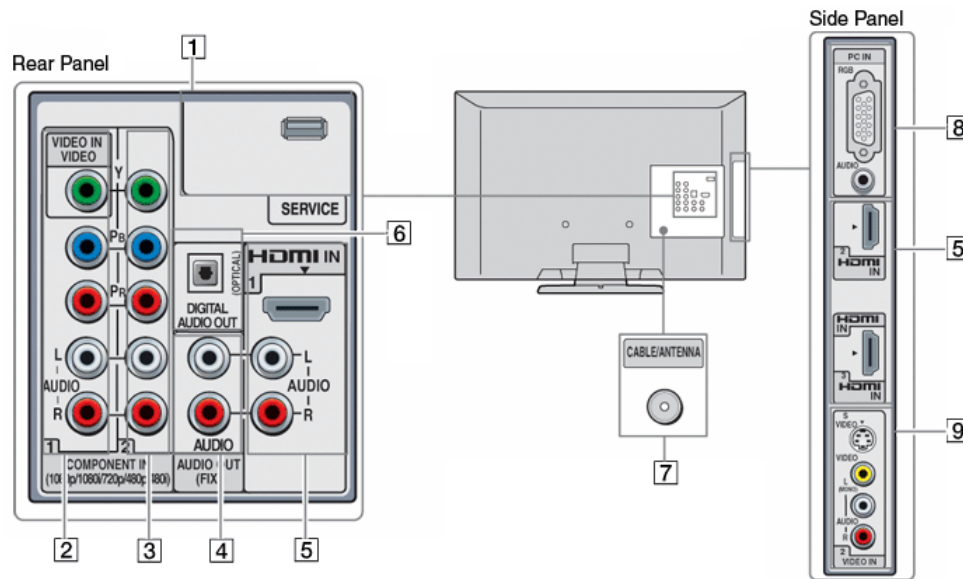
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## Locating Inputs and Outputs

Click on a number to view that feature's description.



### 1 SERVICE

This port is to be used when service is required.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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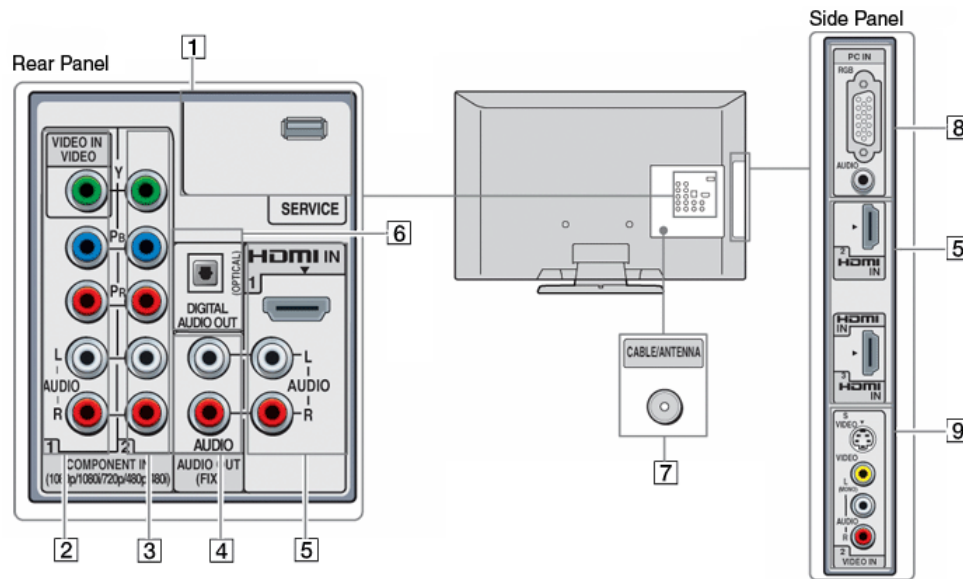


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## Locating Inputs and Outputs

Click on a number to view that feature's description.



### 2 VIDEO IN 1 / COMPONENT IN 1 (1080p / 1080i / 720p / 480p / 480i) / L-AUDIO-R

This input port can be used as composite video input (VIDEO 1) or as component video input (COMPONENT 1). For composite use, connect the yellow jack to Y/Video for video and use audio L and R for audio signal. For component connection, use Y, PB, PR for video signals and also connect the audio L and R for audio signal. If you are using composite video input (VIDEO 1), make sure to select **Video 1** under **Channel** Menu. If you are using component video input (COMPONENT 1), make sure to select **Component 1** under **Channel** Menu.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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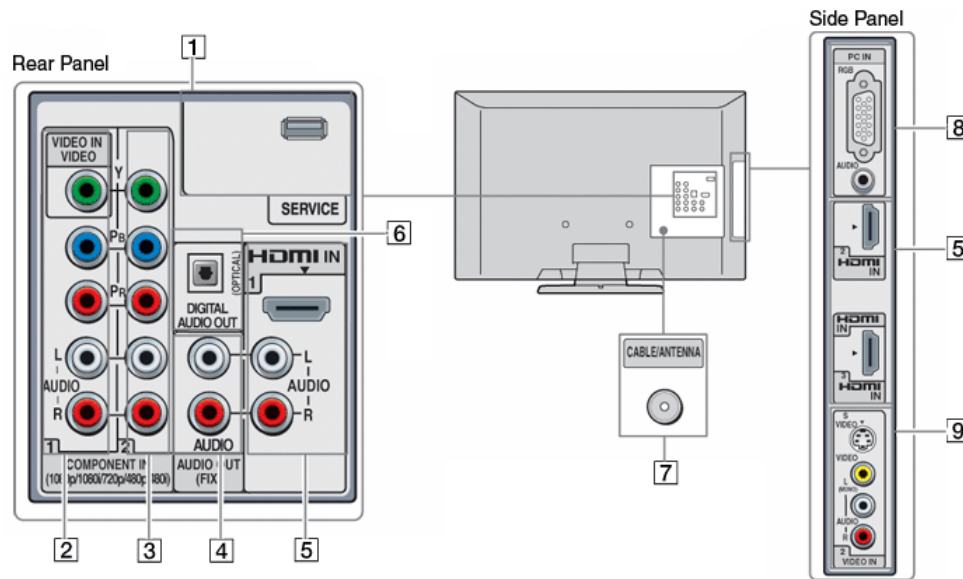
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## Locating Inputs and Outputs

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### 3 COMPONENT IN 2

Component video provides better picture quality than the S Video and composite video. The COMPONENT IN 2 and COMPONENT IN 1 both accommodate for video formats of 1080p, 1080i, 720p, 480p, and 480i as labeled. Audio connection is required for the COMPONENT IN ports, connect audio (L/R).

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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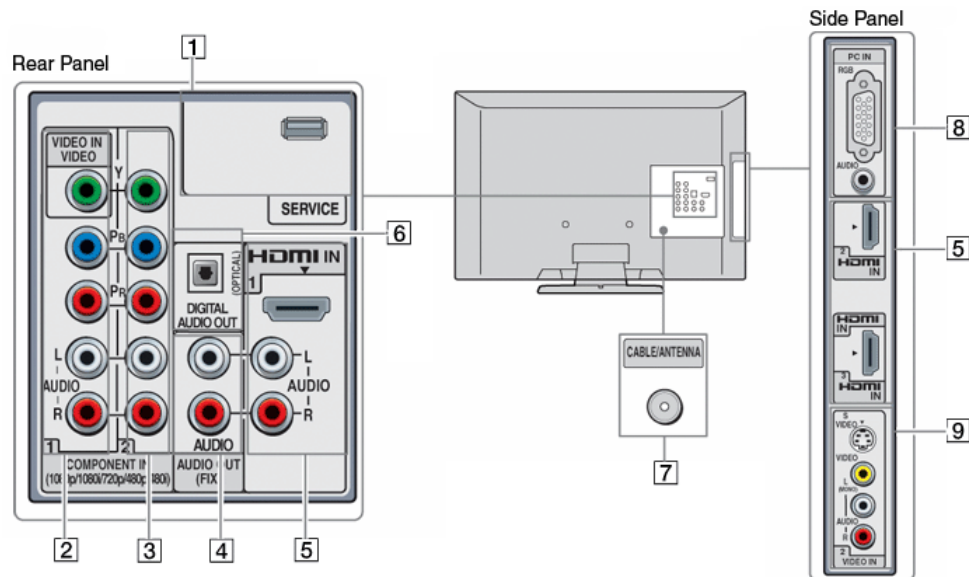
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## Locating Inputs and Outputs

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### 4 AUDIO OUT (FIX)

Connects to the left and right audio input jacks of your audio equipment. You can use these outputs to listen to your TV's audio through your stereo system.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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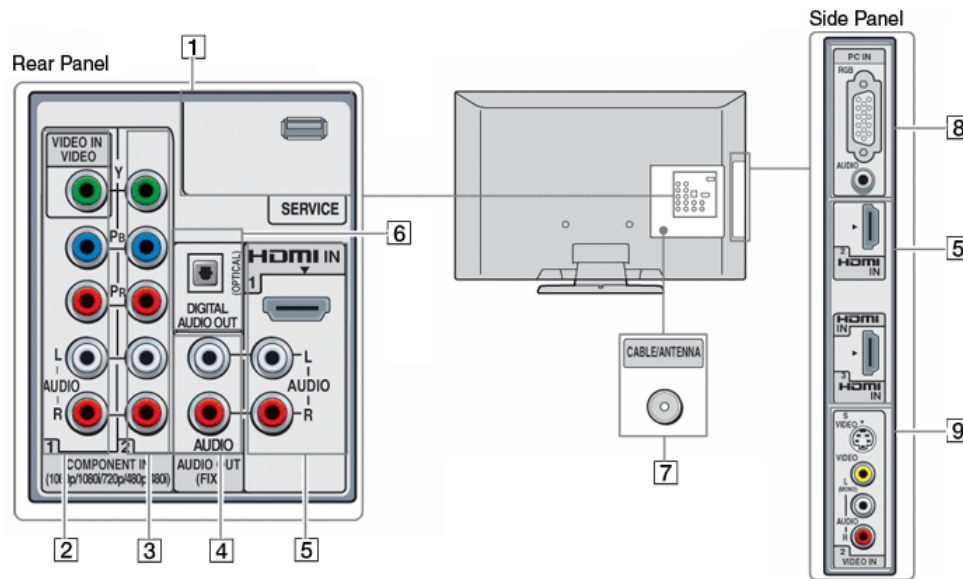
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## Locating Inputs and Outputs

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### 5 HDMI IN 1/2/3

HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video equipment, such as a set-top box, DVD player, Blu-ray Disc, and A/V receiver. HDMI supports enhanced, or high-definition video, plus digital audio. Be sure to use only an HDMI cable that bears the HDMI logo. If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to any HDMI IN (with DVI-to-HDMI cable or adapter) jack, and connect the audio jack to the AUDIO IN (L/R) jacks below the HDMI IN 1.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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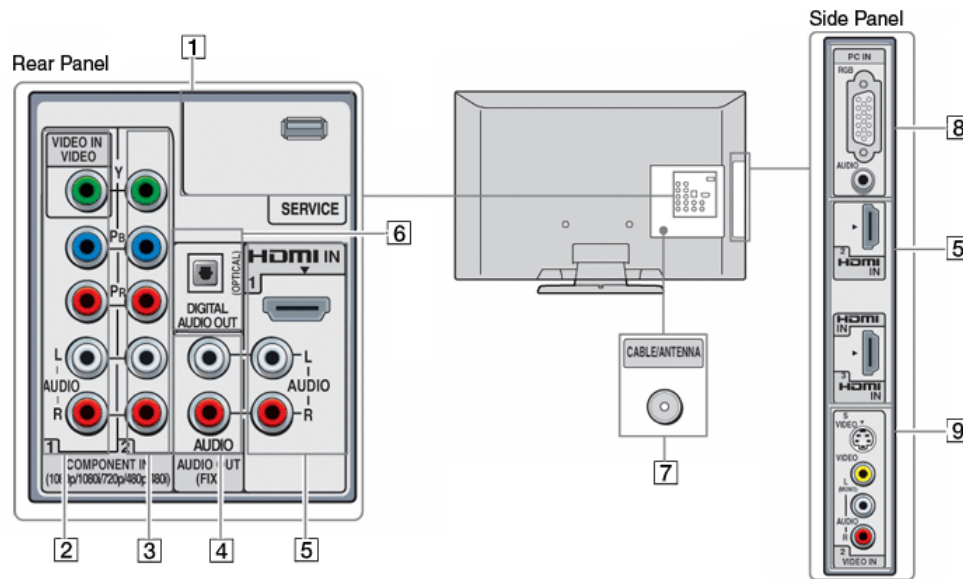
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## Locating Inputs and Outputs

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### 6 DIGITAL AUDIO OUT (OPTICAL)

Connects to the optical audio input of a digital audio equipment that is PCM optical compatible.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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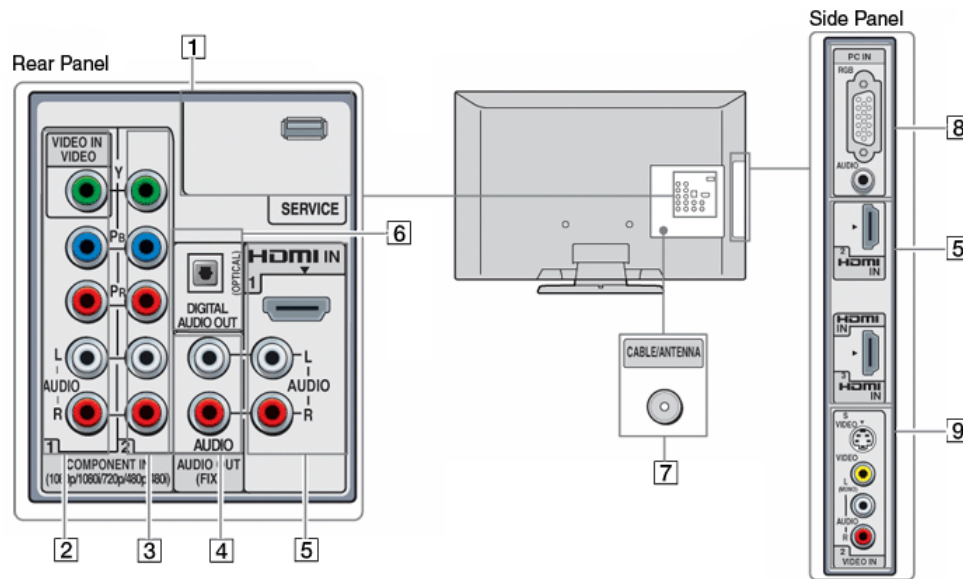
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## Locating Inputs and Outputs

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### 7 CABLE/ANTENNA

RF input that connects to your Cable or over-the-air antenna.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

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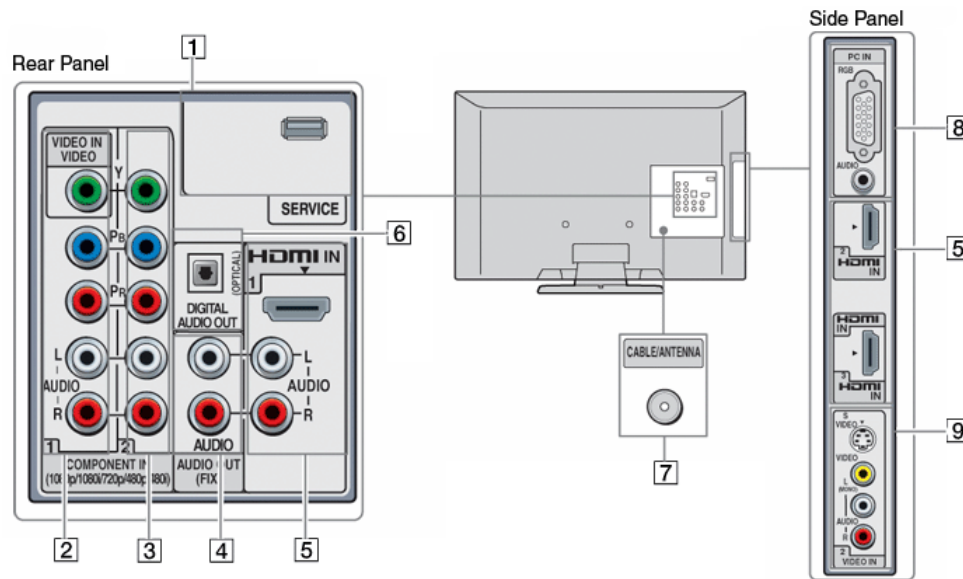
[Next to Connecting the TV →](#)

[Getting Started](#) > Locating Inputs and Outputs



## Locating Inputs and Outputs

Click on a number to view that feature's description.



### 8 PC IN (RGB/AUDIO)

Connects to a personal computer's video and audio output connector. Can also be connected to other analog RGB equipment. For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If an adapter is used, connect the adapter to the computer before connecting the HD15-HD15 cable. You may need to adjust the TV settings or your [PC's resolution and timing](#) to setup your PC to this TV.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

[Back to Securing the TV \(Page 3\)](#)

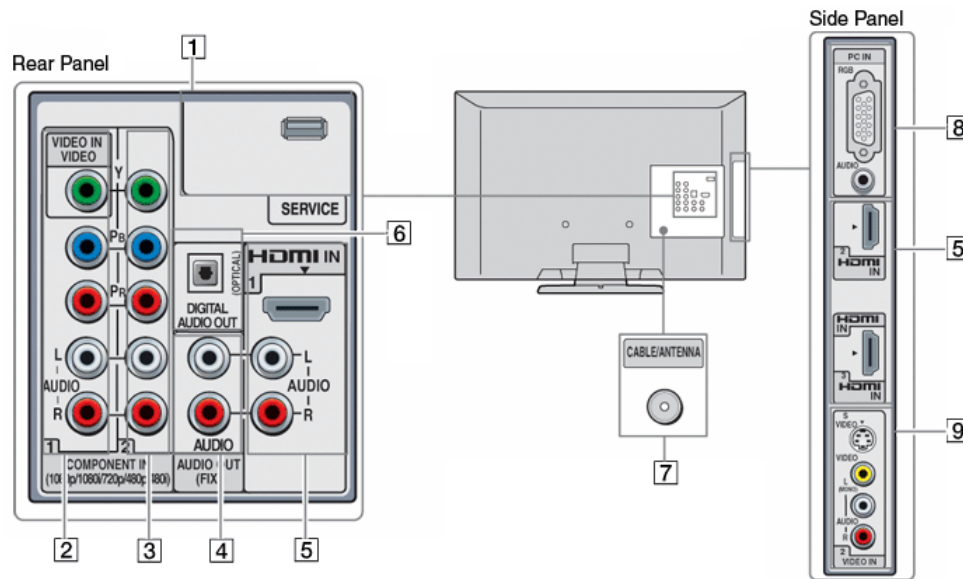
[Next to Connecting the TV](#)

[Getting Started](#) > Locating Inputs and Outputs



## Locating Inputs and Outputs

Click on a number to view that feature's description.



### 9 VIDEO IN 2 S VIDEO VIDEO/L (MONO)-AUDIO-R

Connects to the composite video and audio output jacks on your A/V equipment such as a DVD player or other video equipment. VIDEO IN 2 input is located on the left side panel of the TV. Connects to the S VIDEO output jack of your DVD or other video equipment that has S VIDEO which provides better picture quality than composite video. The S VIDEO does not provide sound; you will need to connect the audio cables.

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

[Back to Securing the TV \(Page 3\)](#)

[Next to Connecting the TV](#)



[Getting Started](#) > Connecting the TV

## Connecting the TV

- [Cable System or/and VHF/UHF Antenna System](#)
- [HD Cable Box/HD Satellite Box](#)
- [PC](#)
- [Other Equipment](#)

[Getting Started](#) > [Connecting the TV](#) > Cable System or/and VHF/UHF Antenna System



## Cable System or VHF/UHF Antenna System

You can enjoy high-definition and standard-definition digital programming (if available in your area) along with standard-definition analog programming.

- This TV is capable of receiving unscrambled digital programming for both cable (QAM and 8VSB) and external VHF/UHF antenna (ATSC).
- It is strongly recommended that you connect the CABLE/ANTENNA input using a 75-ohm coaxial cable to receive optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio frequency interference, resulting in signal degradation.

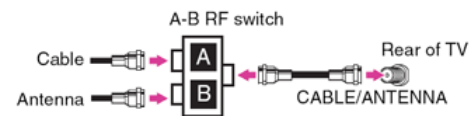
### Cable or VHF/UHF (or VHF only)



## Cable System and VHF/UHF Antenna System

Use an optional A-B RF switch (not supplied) to switch between the cable and over-the-air antenna programming.

- Be sure to set the **Cable** setting to **Cable** or **Antenna** in the [Channel menu](#) for the type of input signal you choose.



[Back to Connecting the TV](#)

[Next to HD Cable Box/HD Satellite Box](#)

[Getting Started](#) > [Connecting the TV](#) > HD Cable Box/HD Satellite Box

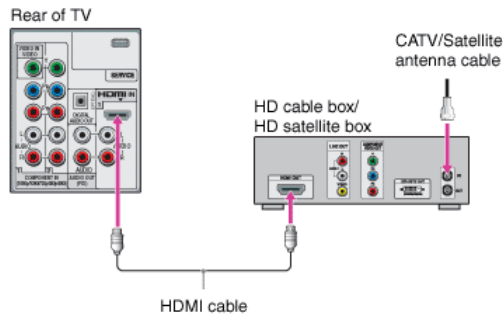


## HD Cable Box/HD Satellite Box

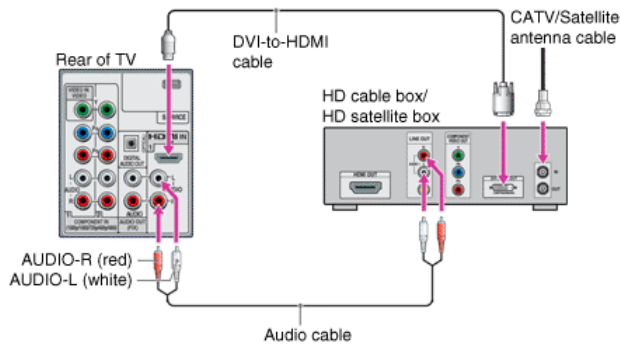
You can enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service.

For the best possible picture, make sure you connect this equipment to your TV via the HDMI or component video (with audio) input on the back of your TV.

### Shown with HDMI Connection

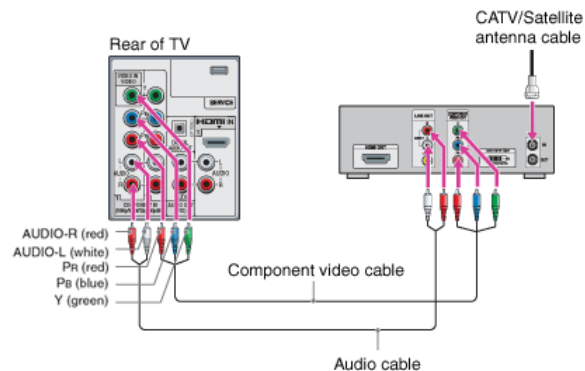


### Shown with DVI Connection



- If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to any HDMI IN (with DVI-to-HDMI cable or adapter) jack and connect the audio jack to the AUDIO IN (L/R) jacks below HDMI IN 1.

### Shown with Component Connection



- If you are using component video input (COMPONENT 1), make sure to select **Component 1** under **Channel** Menu.

[Back to Cable System or/and VHF/UHF Antenna System](#)

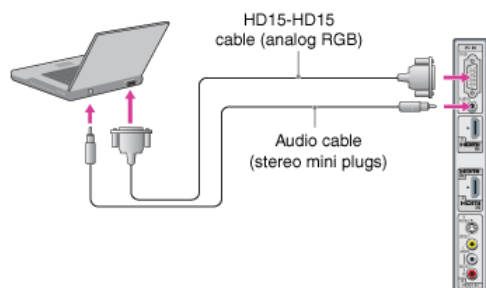
[Next to PC](#)

[Getting Started](#) > [Connecting the TV](#) > PC



## PC

Use the TV as a monitor for your PC by connecting a HD15-HD15 cable as shown below. This TV can also be connected to a PC with a DVI or HDMI output. (Refer to the separate Quick Setup Guide.)



- Connect the PC IN jack to the PC using an HD15- HD15 cable with ferrite core (analog RGB) and audio cable.
- If the PC is connected to the TV and no signal has been input from the PC for more than 5 minutes, the TV enters the standby mode automatically. Refer to the **PC Power Management** option under [Setup Menu](#).

## PC and HDMI Input Signal Reference Chart

After connecting the PC to the TV, set the output signal from the PC according to the supported resolutions and timings indicated below.

Supported Resolutions			Horizontal		Vertical		Standard
Signal	Horizontal (Pixel)	x	Vertical (Line)	frequency (kHz)	frequency (kHz)		
VGA	640	x	480	31.5	60	VGA	
SVGA	800	x	600	37.9	60	VESA Guidelines	
XGA	1,024	x	768	48.4	60	VESA Guidelines	
WXGA	1,280	x	768	47.8	60	VESA	
	1,360	x	768	47.7	60	VESA	
SXGA	1,280	x	1,024	64.0	60	VESA	
HDTV	1,920	x	1,080	67.5	60	CEA-861	

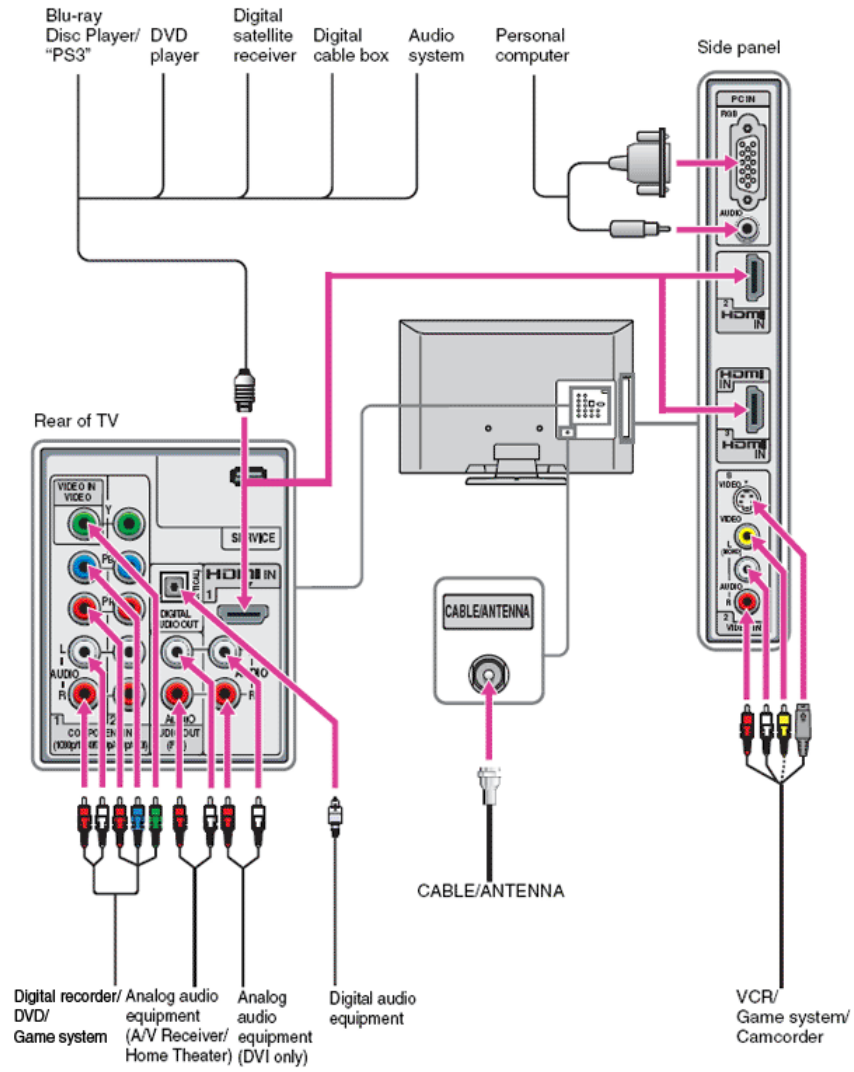
- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC VGA input does not support interlaced signals.
- Adjust **Phase** to eliminate horizontal lines of the picture when the TV receives an input signal from the connected PC.

[← Back to HD Cable Box/HD Satellite Box](#)

[Next to Other Equipment →](#)



### Other Equipment



■ Refer to the Quick Setup Guide (supplied) when connecting other equipment to your TV.

[Back to PC](#)

[Next to Initial Setup](#)

[Getting Started](#) > Initial Setup

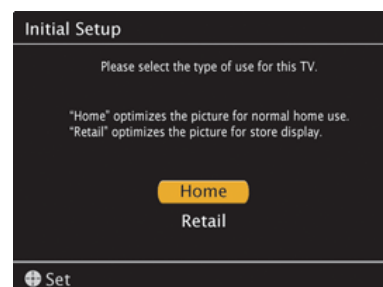
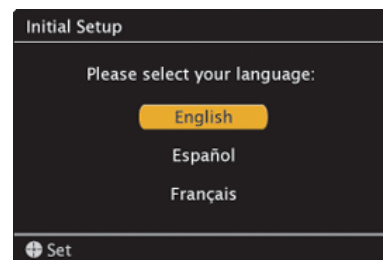


## Initial Setup

The **Initial Setup** screen appears when you turn on the TV for the first time (shown to the right).

- 1) Select the language for the on-screen display text.
- 2) Select **HOME** or **Retail** mode.
- 3) Connect cable or antenna, then select **OK** to run **Auto Program**.

- If you have cable and antenna available, please connect cable first.
- **IMPORTANT: Auto Program process is only effective when cable or antenna is connected. If you cancel Auto Program before completion some channels may not be available.**
- 4) **Auto Program** will scan for available channels from the signal source directly connected to the TV's CABLE/ANTENNA input and may take sometime to complete the process. Follow the help text provided on the screen to run **Auto Program**.
  - When prompted to select **HOME** or **Retail**, be sure to select **HOME** for ENERGY STAR compliant mode.
  - If you use both cable without a box and antenna connections, use an A-B RF switch (not supplied).
  - Select your preferred aspect ratio for the screen display. Press **WIDE** to select the **Wide Mode** or press **MENU** and set the **Auto Wide** to **On** under the **Screen** menu.
  - To change the clock, press **MENU** and go to **Setup** menu then select **Clock/Timers** and adjust **Current Time**.



[← Back to Other Equipment](#)

[Next to Operating the TV →](#)

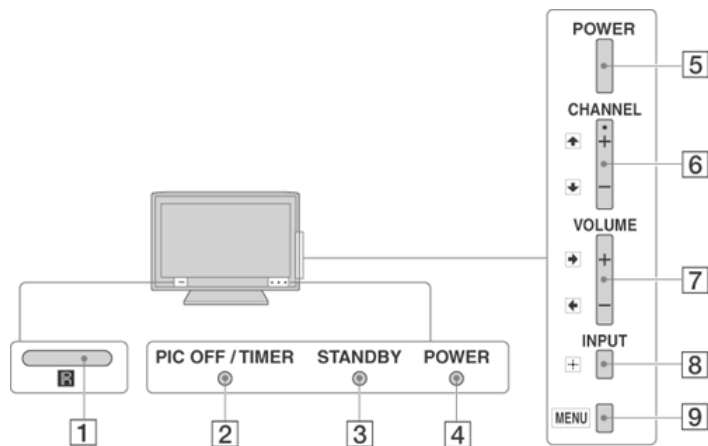


## Operating the TV

- [TV Controls & Indicators](#)
- [The Remote Control](#)
- [Remote Control Button Description](#)



## TV Controls and Indicators



**1 (IR) Infrared Receiver**  
 Receives IR signals from the remote control.

**Light Sensor**  
 Senses room light level and adjusts the screen brightness accordingly. Do not put anything near the sensor or the nearby general area (as shown in the illustration), as its function may be affected.

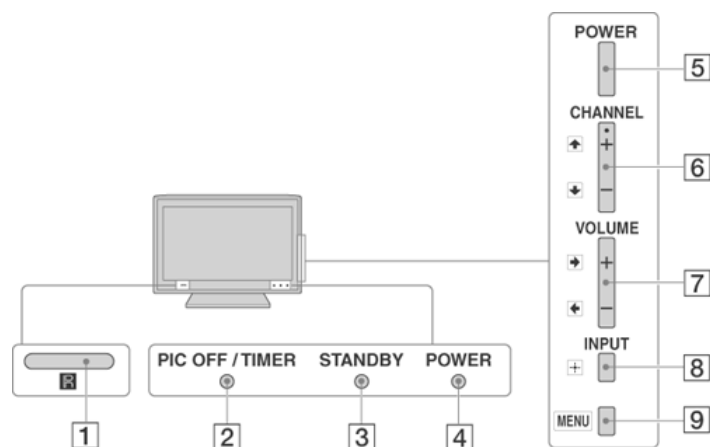
[Back to Operating the TV](#)

[Next to The Remote Control](#)





## TV Controls and Indicators



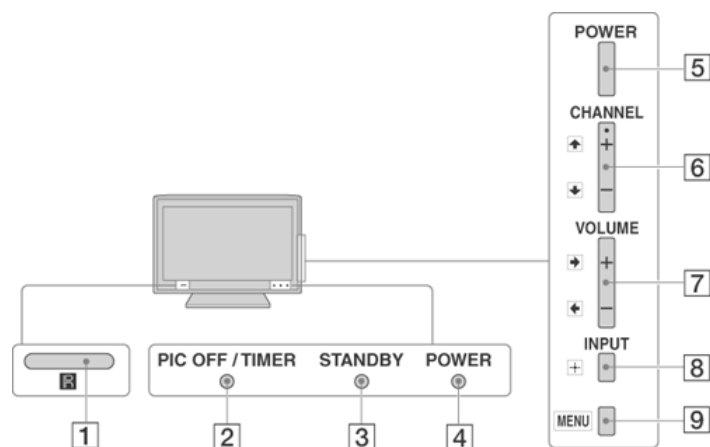
**2 PIC OFF/TIMER LED**  
Lights up in amber when the **Timer** or **Sleep** functions are set. When the timer is set, this LED will remain lit even if the TV is turned off. Lights up in green when the **Backlight** feature is activated to off.

[Back to Operating the TV](#)

[Next to The Remote Control](#)

[Operating the TV](#) > TV Controls and Indicators

## TV Controls and Indicators



### 3 STANDBY LED

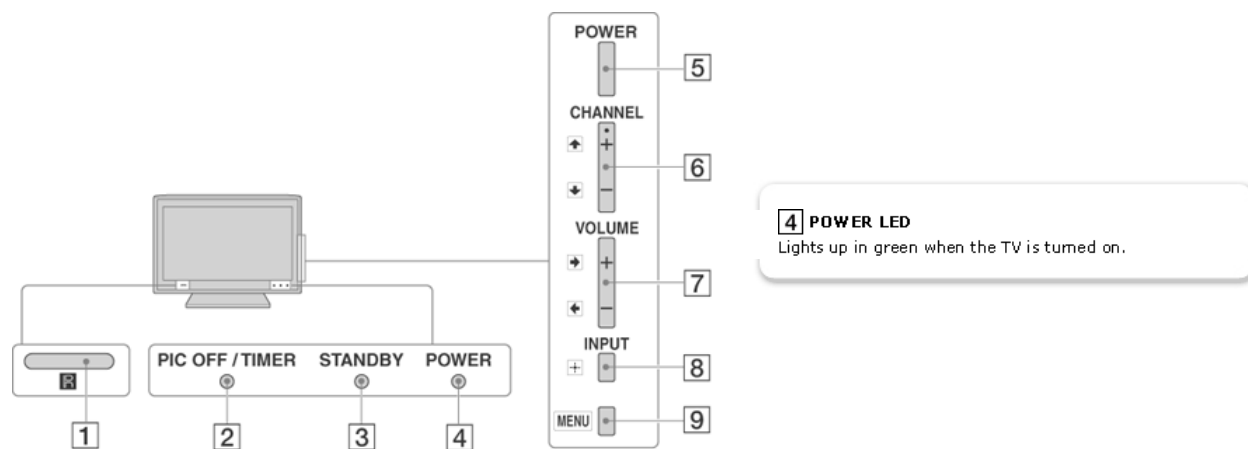
Lights up in red when the function **PC Power Management** is activated and there is no signal received while in the **PC** input. If the LED blinks in red continuously, this may indicate the TV needs servicing (see contacting Sony information on the front cover of the Operating Instructions).

[Back to Operating the TV](#)[Next to The Remote Control](#)

[Operating the TV](#) > TV Controls and Indicators



## TV Controls and Indicators

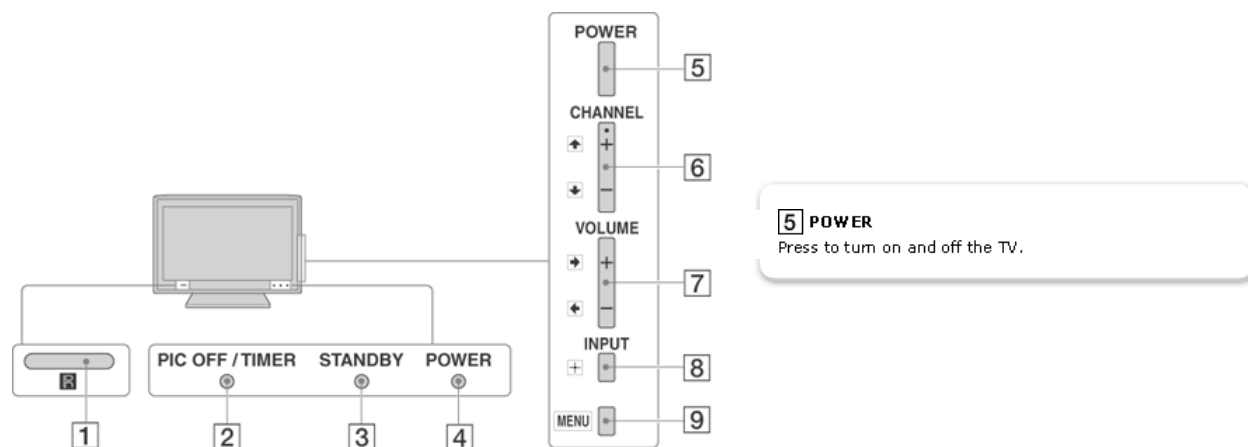


[Back to Operating the TV](#)

[Next to The Remote Control](#)

[Operating the TV](#) > TV Controls and Indicators

## TV Controls and Indicators



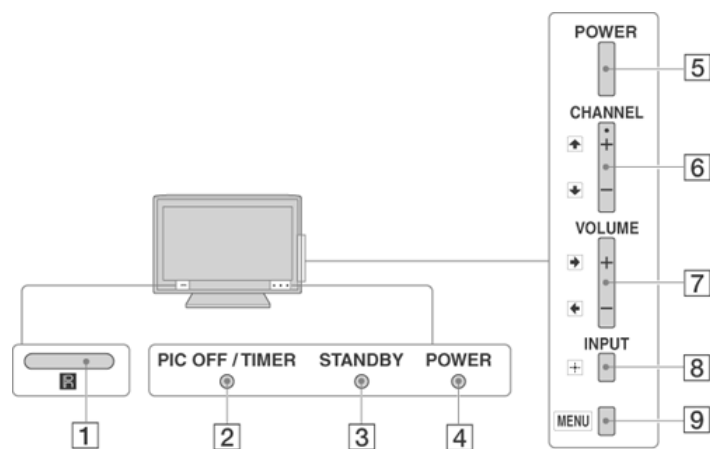
[Back to Operating the TV](#)

[Next to The Remote Control](#)

[Operating the TV](#) > TV Controls and Indicators



## TV Controls and Indicators



**6** + CHANNEL -  
Press to scan through channels. To scan quickly through channels, press and hold down either +/- . In the **MENU** screen, these buttons serve as up/down buttons.

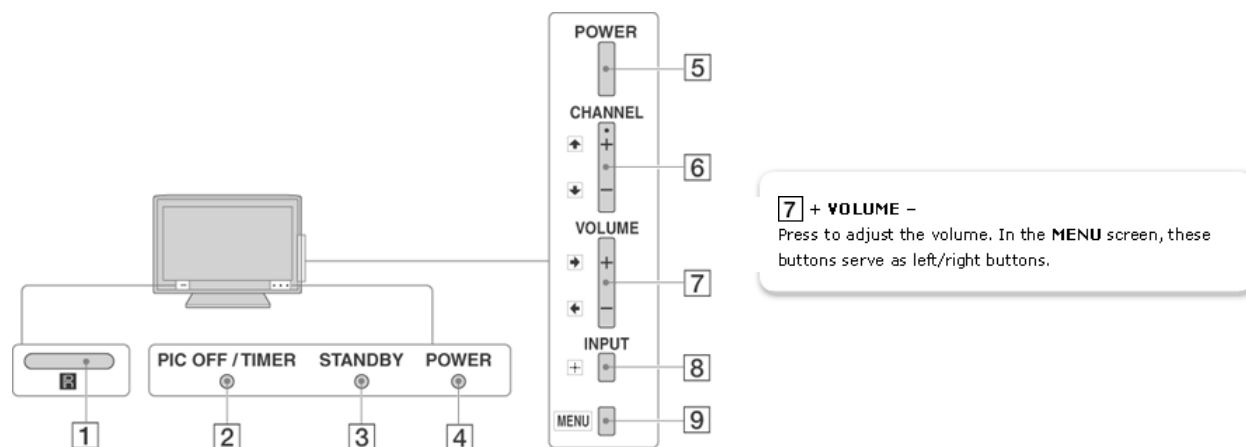
[Back to Operating the TV](#)

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## TV Controls and Indicators



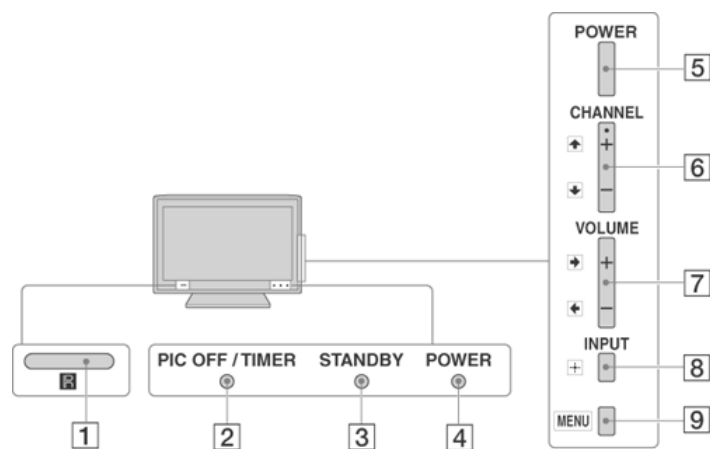
[Back to Operating the TV](#)

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[Operating the TV](#) > TV Controls and Indicators



## TV Controls and Indicators



**8 INPUT**  
Press to display the list of inputs. To toggle through the inputs, press the buttons **CHANNEL +/-**. In the **MENU** screen, this button serves to confirm the selection or setting.

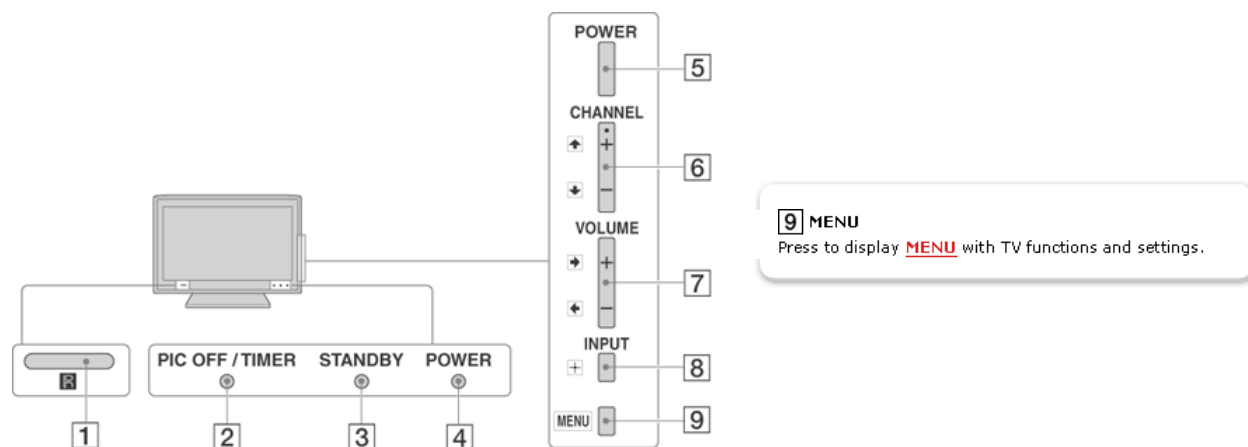
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[Next to The Remote Control](#)

[Operating the TV](#) > TV Controls and Indicators



## TV Controls and Indicators



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[Next to The Remote Control](#)



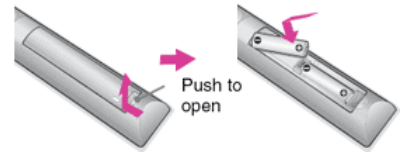
[Operating the TV](#) > The Remote Control



## The Remote Control

### Inserting Batteries into the Remote Control

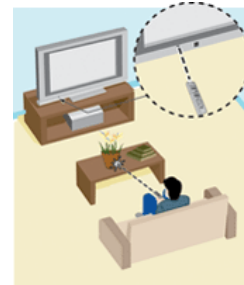
Insert two size AA batteries (supplied) by matching **+** and **-** on the batteries to the diagram inside the battery compartment of the remote control.



### When Using the Remote Control

Follow the guidelines below

- Point your remote control directly at the IR sensor located on your TV.
- Make sure that no objects are blocking the path between the remote control and the IR sensor on your TV.
- Fluorescent lamps can interfere with your remote control; try turning off the fluorescent lamps.
- If you are having problems with the remote control, reinsert or replace your batteries and make sure that they are correctly inserted.



[← Back to TV Controls & Indicators](#)

[Next to Remote Control Button Description →](#)

## Remote Control Button Description



Click a button on the remote control for more information.

[← Back to The Remote Control](#)

[Next to Using Features →](#)

## Remote Control Button Description



### DISPLAY

Press to display information about channel/program or input you are watching. The information banner will disappear in a few seconds or press again to exit. You can enable or disable the **Info Banner** by pressing **MENU** and go to the [Setup Menu](#) to set **Info Banner** to On or Off.

- The TV will show the remaining time of the current program you are watching when the program time is less than 24 hours.

[← Back to The Remote Control](#)[Next to Using Features →](#)

[Operating the TV](#) > Remote Control Button Description



## Remote Control Button Description



### CC

Press to turn on and off the [Closed Captions \(CC\)](#).

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



**POWER**  
Press to turn on and off the TV.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



### **BRAVIA Sync**

These buttons are used to control the connected equipment with **Control for HDMI** function (not available on all **Control for HDMI** equipment). Some other buttons on the remote control may also operate **BRAVIA Sync** equipment.

**◀◀ (fast reverse)**: Press to play a program in fast rewind mode.

**▶▶ (fast forward)**: Press to play a program in fast forward mode.

**▶▶ (fast forward)**: Press to play a program in fast forward mode.

**▶▶ (fast forward)**: Press to play a program in fast forward mode.

**▶▶ (fast forward)**: Press to play a program in fast forward mode.

**▶▶ (fast forward)**: Press to play a program in fast forward mode.

**▶▶ (fast forward)**: Press to play a program in fast forward mode.

**THEATER**: Press to turn on and off the **Theater Mode**. The picture settings will be set for a cinema-like experience and the audio will be switched to the audio output of the attached speakers of your **BRAVIA Sync** audio system. Your **BRAVIA Sync** audio system must be connected by an **HDMI** connection to your TV.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



**FAVORITES**  
Press once to display the stored [Favorites](#) menu. Press again to exit from the [Favorites](#) menu.

[← Back to The Remote Control](#)

[Next to Using Features →](#)

[Operating the TV](#) > Remote Control Button Description



## Remote Control Button Description



### WIDE

Press repeatedly to cycle through the available [Wide Mode](#) settings.

[← Back to The Remote Control](#)

[Next to Using Features →](#)





[Operating the TV](#) > Remote Control Button Description



## Remote Control Button Description



### INPUT

Press to display the list of External Inputs and TV mode. To toggle through the inputs, press  .

[← Back to The Remote Control](#)

[Next to Using Features →](#)

[Operating the TV](#) > Remote Control Button Description



## Remote Control Button Description



Press     to move focus/highlight. Press  to select/confirm an item.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



### RETURN

Press to go back to the previous screen or exit from the screen when displaying menu items and settings.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



### TOOLS

Press to display a list of convenient functions and menu shortcuts. The **TOOLS** menu items vary based on current input and content.

[← Back to The Remote Control](#)[Next to Using Features →](#)



## Remote Control Button Description



### MENU

Press to display the menu with TV functions and settings.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



### 0-9, ENT, and SELECT

Press **0-9** to select a channel; the channel changes after a few seconds.

Press **ENT** to change channels immediately.



Use with **0-9** and **ENT** to select digital channels. For example, to enter 2.1, press **2**, **.**, **1** and **ENT**.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



**VOL +/-**  
Press to adjust the volume.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



### CH +/-

Press to scan through channels. To scan quickly through channels, press and hold down either +/-.

[← Back to The Remote Control](#)

[Next to Using Features →](#)





## Remote Control Button Description



### MUTING

Press to mute the sound. Press again or press **VOL +** to restore the sound.

[← Back to The Remote Control](#)

[Next to Using Features →](#)



## Remote Control Button Description



### JUMP

Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.

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## Using Features

- [Using BRAVIA Sync with Control for HDMI](#)
- [Favorites](#)
- [Wide Mode](#)
- [Wide Mode with PC](#)



## Using BRAVIA Sync with Control for HDMI

The BRAVIA Sync function on this TV communicates with other Sony equipment supporting the **Control for HDMI** function.

### To connect Sony equipment with Control for HDMI

Use an HDMI cable that bears the HDMI logo for connection. See the HDMI connection shown in the Quick Setup Guide provided with the TV documentation.

### Setting the Control for HDMI

The **Control for HDMI** function must be set up in order for the TV to communicate with other **Control for HDMI** enabled equipment. For other equipment, refer to its operating instructions.

### Available options using Control for HDMI

The following operations are available after you connect the supported Sony equipment with **Control for HDMI** function to your TV:

- Automatically turn off the connected equipment when you turn off the TV.
- The TV will automatically turn on and select the respective HDMI input.
- The connected equipment is turned on by One-Touch-Play.
- Possible operations with **BRAVIA Sync** buttons.
- Equipment listed under **External Inputs** will turn on automatically when selected.

When a Sony A/V receiver with BRAVIA Sync is connected, the following additional operations are possible:

- Turning on the A/V receiver when the TV is turned on.
- Adjusting the volume and muting of the A/V receiver with the TV's remote control.
- Pressing **THEATER** on the remote control turns on and searches for an external audio system that supports BRAVIA Sync. When the BRAVIA Sync audio system is on, the internal speakers of the TV will turn off and the **Picture Mode** will change automatically to **Cinema**.
- When using BRAVIA Sync, the included remote control will change some of the buttons functions to accommodate control over the device. If the device does not support this feature, some buttons will remain without function.

[Back to Using Features](#)[Next to Favorites](#)

[Using Features](#) > Favorites

## Favorites

With Favorites, you can manage your preferred **TV** channels and **External Inputs**.

- [Adding to Favorites](#)
- [Navigating Favorites](#)



[Back to Using BRAVIA Sync with Control for HDMI](#)

[Next to Adding to Favorites](#)



[Using Features](#) > [Favorites](#) > Adding to Favorites



## Adding to Favorites

- 1) Press **TOOLS** to add the current channel or input while you are watching it.
- 2) Highlight **Add to Favorites** and press **(+)**.

## Displaying Favorites

Press **FAVORITES** on the remote control.



- **Auto Program** will clear your TV channels and inputs from **Favorites**.

[← Back to Favorites](#)

[Next to Navigating Favorites →](#)

[Using Features](#) > [Favorites](#) > Navigating Favorites



## Navigating Favorites

- 1) Press / to move between saved selections in a carousel-like fashion.
- 2) When the recently viewed channels and inputs are highlighted, press / to toggle between them.
- 3) To tune to an item, highlight its icon and press .

## Removing from Favorites

- 1) Press **TOOLS** to remove to remove the current channel or input while you are watching it.
- 2) Highlight **Remove from Favorites** and press .

[Back to Adding to Favorites](#)

[Next to Wide Mode](#)

[Using Features](#) > Wide Mode



## Wide Mode











The **Wide Mode** feature allows you to select the screen display of your preference. Based on the original source, a black frame or black bars may surround the picture. You can manually change the **Wide Mode** setting while watching TV by pressing the **WIDE** button on your remote control.

### How to set to Auto Wide

Press **MENU** then go to the **Screen** menu.  
Select **Auto Wide** and set to **On**.

### Changing the Wide Screen Mode

Press **WIDE** repeatedly to cycle through the available modes.

4:3 Original source	16:9 Original source
Standard-definition source 	High-definition source 
<b>Wide Zoom</b> 	<b>Wide Zoom</b> 
<b>Normal</b> 	<b>Normal</b> This mode is not available.
<b>Full</b> 	<b>Full</b> 
<b>Zoom</b> 	<b>Zoom</b> 
<b>Full Pixel</b> This mode is not available.	<b>Full Pixel</b> 

- **Normal** is available with 480i or 480p sources only as they are standard-definition and not from high-definition source such as component video input, HDMI input and digital TV.
- **Full Pixel** is available only for 720p, 1080i and 1080p formats excluding Cable/Antenna input.
- **Full Pixel** displays the picture in its native resolution.

[← Back to Navigating Favorites](#)

[Next to Wide Mode with PC →](#)















[Using Features](#) > Wide Mode with PC



## Wide Mode with PC

### Changing the Wide Screen Mode for PC Timing

Press **WIDE** repeatedly to cycle through the available modes while in the **PC input** mode.

Incoming PC signal	Incoming PC signal
 800 x 600	 1,280 x 768
↓	↓
<b>Wide Zoom</b> 	<b>Wide Zoom</b> 
<b>Normal</b> 	<b>Normal</b> 
<b>Full</b> 	<b>Full</b> 
<b>Zoom</b> 	<b>Zoom</b> 
<b>Full Pixel</b> 	<b>Full Pixel</b> 

- **Full Pixel** displays the picture in its native resolution.

[← Back to Wide Mode](#)

[Next to Using the Menus →](#)



## Using the Menus

The **MENU** button allows you to access the variety of TV settings for you to customize the settings.

### Navigating through TV Menus



**▲/▼ button:**

Allows you to highlight options where applicable.

**⊕ button:**

Allows you to select the highlighted option and advance to the next screen.

**◀ button:**

Allows you to move back to the previous screen.

**▶ button:**

Allows you to move to the next screen.



#### Picture

##### Picture

On **Picture** Menu, you can adjust the picture you see to fit your viewing preference. These settings allow you to customize for the signals your TV receives; such as the broadcasted signal or signal from your gaming equipment or from your connected equipment.



#### Sound

##### Sound

The **Sound** Menu allows you to customize your sound settings to suit your audio preferences. You can also set the settings to enjoy the sound from your connected audio system.



#### Screen

##### Screen

The **Screen** Menu allows you to change the proportions of the screen. Depending on the signal your TV receives, the images on the screen can fill the screen from edge to edge on the screen or can be smaller, looking like a square in a rectangle shaped screen. The screen settings allow you to adjust the size and shape of image you see on your TV. Use the **Wide Mode** option or use **Auto Wide**, or **4:3 Default** to keep the square like screen size.



#### Channel

##### Channel

**Channels & Inputs** Menu allows you to switch between the cable and antenna signal, run Auto Program, Add Digital Channels, or you can show or hide channels to appear when you use the **CH+/-** button or even label channels or inputs.



#### Lock

##### Lock

**Parental Lock** Menu allows you to block programs according to their content and rating labels and block channels (regardless of the programs). Set the password and limit the access based on the rating levels or block the channel. Not every program is suited for the general audiences.



#### Setup

##### Setup

**Setup** Menu allows you to set and customize **Closed Captions** with different size and color of the fonts, program the TV to turn off, select the **Language** for your on-screen display, or change the settings related to power consumption.

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Click a link to the left for more information.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Picture Mode

For Video

**Vivid** For enhanced picture contrast and sharpness.

**Standard** For standard picture settings. Recommended for home entertainment.

**Cinema** For viewing film-based content. Most suitable for viewing in a theater-like environment.

**Custom** Allows you to store your preferred settings.

For PC Timings

**Text** This option is available for PC timing (HDMI or PC input) signal to enhance the text shown on the screen.

**Video** This option is available for PC timing (HDMI or PC input) signal to enhance the video shown on the screen.

- The options for **Picture Mode** may vary depending depending on the input.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Reset

Resets the current **Picture Mode** setting to factory default values.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Backlight

Press / to brighten or darken the backlight, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Picture

Press / to increase or decrease picture contrast, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Brightness

Press / to brighten or darken the picture, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Color

Press to increase or decrease color intensity, then press to set.

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### Hue

Press to increase or decrease the green or red tones, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Color Temperature

<b>Cool</b>	Gives the white colors a bluish tint.
<b>Neutral</b>	Gives the white colors a neutral tint.
<b>Warm</b>	Gives the white colors a reddish tint.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Sharpness

Press / to sharpen or soften the picture, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Noise Reduction

Reduces the picture noise level. Select **Off**, **Low**, **Medium** or **High**.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Adv. Contrast Enhancer

Automatically optimizes the backlight and contrast. This setting is especially effective for dark picture scenes. Select **Off**, **Low**, **Medium** or **High**.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Gamma

Adjusts the balance between the light and dark areas of the picture. Select **Off**, **Low**, **Medium** or **High**.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Clear White

Emphasizes white and light colors. Select **Off**, **Low** or **High**.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Live Color

Makes colors more vivid and reproduces clear skin tones. Select **Off**, **Low**, **Medium** or **High**.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### CineMotion

Automatically detects film-based content and applies an inverse 3-2 pull-down process and a motion estimation engine to improve film content and de-interlacing performance.

**Off** Turns off **CineMotion**.

**Auto** Applies an inverse 3-2 pull-down process along with motion estimation to obtain the smoothest picture quality and reduces artifacts of moving images. Select for standard use.

- The **CineMotion** feature can be set separately for each input (except PC IN).

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Game Mode

Select **On** to optimize the enjoyment of fast paced video games where response time is important. Select **Off** to disable this feature.

- The **Game Mode** can be set separately for each external input (except PC IN).

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### White Balance

Adjust the color temperature in detail.

- Use **TOOLS** button on the remote control to quickly access to the **Picture** menu.

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### Sound Mode

<b>Dynamic</b>	Enhances the sound of action movies, sports events and musical videos.
<b>Standard</b>	Standard sound optimized for home use.
<b>Clear Voice</b>	Enhances the voice sound; recommended for television news and documentary programs.
<b>Custom</b>	Allows you to customize sound settings.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.



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### Reset

Resets the current **Sound Mode** setting to factory default values.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Surround

**Off** Turns off **TruSurround XT** effect.

**TruSurround XT** Produces realistic surround sound experience.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Steady Sound

**On** Stabilizes the volume across all programs and commercials.

**Off** Turns off **Steady Sound**.

- **Steady Sound** is not available when **TruSurround XT** is activated.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.



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### Treble

Press / to increase or decrease higher-pitched sounds, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Bass

Press to increase or decrease lower-pitched sounds, then press to set.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Balance

Press / to emphasize left or right speaker balance, then press to set.

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### Volume Offset

Adjusts the volume level of the current input (TV or video input) relative to other inputs.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Speakers

**TV Speakers** Select to use the TV speakers for audio.

**Audio System** Select this option if you wish to use an external audio system for the TV sound. By selecting this option you are disabling the TV speakers.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Alt. Audio/MTS

This Audio feature for current program lets you select an alternate audio (if it is available).

**Mono** Select for mono reception. Use to reduce noise during weak stereo broadcasts.

**Stereo** Select for stereo reception when viewing a program broadcast in stereo.

**Auto SAP** Select to automatically switch the TV to second audio programs when a signal is received. If no **SAP** signal is present, the TV remains in **Stereo** mode.

- Alternate audio is disabled for analog signals and for digital signals that do not have audio streams.
- **MTS** is available only for analog programs.

- Use **TOOLS** button on the remote control to quickly access to the **Sound** settings.

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### Wide Mode

These options allow you to change the proportion of the screen.

**Wide Zoom** Fills the screen with minimum distortion.

**Normal** Select to display 4:3 pictures in original aspect ratio when the original source is 4:3.

**Full** Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (standard-definition source). When the original source is 16:9 (high-definition source), select this mode to display 16:9 picture in original size.

**Zoom** Select to enlarge the original picture horizontally and vertically to fill the screen while maintaining the aspect ratio.

**Full Pixel** Displays the picture for 720p, 1080i and 1080p sources in its original size.

- **Normal** is available with 480i or 480p sources.
- **Full Pixel** is only available for 720p, 1080i and 1080p sources, excluding CABLE/ANTENNA input.
- **Wide Mode** can also be accessed by pressing **WIDE** button on the remote control.

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### Auto Wide

**On** Select to have the screen automatically change to the screen mode based upon program's content. Typically this requires special setup on the DVD equipment's menu. If frequent screen changes are disturbing to you, select **Off**.

**Off** Select to turn off the **Auto Wide** option. Choose a screen mode from the **Wide Mode** option.

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### 4:3 Default

Select the default screen mode to use for 4:3 sources.

**Wide Zoom** Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible, with minimal distortion.

**Normal** Select to display the 4:3 picture in its original size.

**Full** Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (standard-definition source).

**Zoom** Select this option to enlarge the picture horizontally and vertically to obtain an aspect ratio equivalent to fill the screen.

**Off** To turn **Off** automatic size for 4:3.

- If **4:3 Default** is set to anything but **Off**, the **Wide Mode** setting applies only to the current channel. When you change channels (or inputs), **Wide Mode** is automatically replaced with the **4:3 Default** setting for 4:3 sources. To retain the current **Wide Mode** setting as channels and inputs are changed, set **4:3 Default** to **Off**.

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### Vertical Center

Allows you to move the position of the picture up and down.

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### Vertical Size

Adjusts the vertical size of the picture.

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### Horizontal Size

Adjusts the horizontal size of the picture.

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### Phase

Adjust to fine tune overall sharpness.

- **Phase** is disabled when the TV is receiving a different video input than PC.

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### Wide Mode (For PC timings)

<b>Wide Zoom</b>	Fills the screen with minimum distortion.
<b>Normal</b>	Select to display the picture in its original resolution and aspect ratio.
<b>Full</b>	Select to enlarge the picture horizontally to fill the screen.
<b>Zoom</b>	Select to enlarge the picture to fill the screen, while maintaining its original aspect ratio.
<b>Full Pixel</b>	Displays the picture in its original size.

- **Wide Mode** can also be accessed by pressing **WIDE** button on the remote control.

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### Cable/Antenna

**Cable** Select if you are receiving cable channels via cable TV provider.

**Antenna** Select if you are using an antenna.

- You must perform **Auto Program** after **Cable** or **Antenna** is selected.

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### Add Digital Channels

Select to add digital channels without replacing the original channel list. Be sure to set **Cable** setting to **Cable** or **Antenna** for the correct type of input signal you choose.

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### Auto Program

Automatically sets up the channel list on the TV for all receivable channels (Digital and Analog).

- 1) Select **Auto Program**.
- 2) Select **OK** to start **Auto Program**. When **Auto Program** is completed, the screen will display the number of channels found.

- **IMPORTANT:** Auto Program process is only effective when cable or antenna is connected. If you cancel Auto Program before completion, some channels may not be available.
- Auto Program will clear your Favorites list.

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### Manage Channels

Follow the steps below to customize your channel menu for easy recognition when the **CHANNEL** button is pressed.

- 1) Press to highlight your channel selection.
- 2) Press to select **Shown** or **Hidden**.

To assign your own label to the channel such as station call letters:

- 1) Press to highlight your channel selection and press to select the channel that you want to assign a label.
- 2) Press , it will appear a window to select the letters.
- 3) Press to move through the label characters (A-Z, 0-9) and press to select it. To move to the next character press . Repeat to add up to 9 characters to the label. Then select ENTER on screen to set it. To assign labels to more channels, repeat all steps.

- To delete a character select on screen.
- To have a space between characters select on screen.
- To exit press **RETURN** button.

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## Using the Channel Menu

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### Manage Inputs

Follow the steps below to customize your input menu for easy recognition when the **INPUT** button is pressed.

- 1) Press to highlight your input selection.
- 2) Press to set **Enable** setting to either **Skip** or **Auto**.
- 3) To assign your own label to the input, press to highlight the label option, then press to choose a name of the equipment that is connected to this input.

- You can assign the following labels for each input (except PC and Cable/Antenna inputs): **-, DVD, VCR, Blu-ray, Cable Box, Satellite, DVR, Game, Camcorder.**

You can also select **Custom** to assign labels such as station call letters:

- 1) Press to highlight your input selection and press to select the input that you want to assign a label.
- 2) Press and select **Custom** option, it will appear a window to select the letters.
- 3) Press to move through the label characters (A-Z, 0-9) and press to select it. To move to the next character press . Repeat to add up to 9 characters to the label. Then select ENTER on screen to set it. To assign labels to more inputs, repeat all steps.

- To delete a character select on screen.
- To have a space between characters select on screen.
- To exit press **RETURN** button.

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### Video/Component 1

**Video 1** Select this option when using VIDEO 1 input

**Component 1** Select this option when using COMPONENT 1 input.

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### Control for HDMI

Allows your TV to communicate with other equipment that supports **Control for HDMI** function.

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### Device List

Displays a list of equipment with **Control for HDMI** function connected to the TV.

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### Device Auto Power Off

Select **On** to have your connected equipment with **Control for HDMI** function to power off automatically when the TV is turned off. Select **Off** to disable this function. This feature is available when **Control for HDMI** is **On**.

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### TV Auto Power On

Select **On** to control your TV's power on from your connected equipment with **Control for HDMI** function. Select **Off** to disable this function. This feature is available when **Control for HDMI** is **On**.

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### Signal Diagnostics

Allows to confirm the current signal performance.

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## Using the Parental Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

- [Rating](#)
- [Digital Rating](#) (Available only in U.S.A. where advanced ratings exist)
- [Unrated](#) (Available only when Country is set to U.S.A.)
- [Channel Block](#)
- [External Input Block](#)
- [Change Password](#)
- [Select Country](#)

#### Rating

<b>Off</b>	Turns <b>Parental Lock Off</b> . No programs are blocked from viewing based on their ratings.
<b>Child</b>	Maximum ratings permitted are: <b>U.S.:</b> TV-Y, TV-G, G <b>Canada:</b> C, TV-Y
<b>Youth</b>	Maximum ratings permitted are: <b>U.S.:</b> TV-PG, PG <b>Canada:</b> C8+, PG, 8 ans+, TV-PG
<b>Young Adult</b>	Maximum ratings permitted are: <b>U.S.:</b> TV-14, PG-13 <b>Canada:</b> 14+, 13 ans+, TV-14
<b>Custom</b>	Select to set ratings manually: <b>U.S. or Canada</b>

- If you are not familiar with the **Parental Guideline** rating system, you should select **Child**, **Youth**, or **Young Adult** to help simplify the rating selection. To set more specific ratings, select **Custom**.

### Custom Rating System Chart

For **Country** selection of **U.S.A.:**

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

For **Country** selection of **Canada:**

- [English Rating](#)
- [French Rating](#)
- [U.S.A. Rating](#)

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## Using the Parental Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

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Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

- [Rating](#)
- [Digital Rating](#) (Available only in U.S.A. where advanced ratings exist)
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#### Digital Rating

- |                  |   |
|------------------|---|
| <b>Off</b>       | Select to <b>Digital Rating</b> off. No programs containing digital ratings are blocked from viewing. |
| <b>Custom</b>    | Select to customize the <b>Parental Lock</b> with downloadable digital ratings.                       |
| <b>Clear All</b> | Select to clear the downloaded ratings.   |

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

For **Country** selection of **Canada**:

- [English Rating](#)
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## Using the Parental Lock

Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

- [Rating](#)
- [Digital Rating](#) (Available only in U.S.A. where advanced ratings exist)
- [Unrated](#) (Available only when *Country* is set to *U.S.A.*)
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#### Unrated

**Allow** Allows programs and movies that are broadcasted without a rating.

**Block** Blocks all programs and movies that are broadcasted without a rating.

- If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

For **Country** selection of **Canada**:

- [English Rating](#)
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## Using the Parental Lock

Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

- [Rating](#)
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#### Channel Block

Allows you to block specific channels regardless of program ratings. The password needs to be set up prior to blocking channels. The blocked channel can only be viewed by entering the correct password.

#### To block a channel

Press **▲/▼** to go through the channels and press **+** to **Block** or **Allow** channels.

#### To view a blocked channel

Press **ENT** when tuned to the blocked channel then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV or go into **Parental Lock** menu again.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

For **Country** selection of **Canada**:

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## Using the Parental Lock

Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

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#### External Input Block

Allows you to block individual video inputs.

Press / to scroll through the video inputs and press to **Block** or **Allow**.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

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For **Country** selection of **Canada**:

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## Using the Parental Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

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#### Change Password

You can change your password by entering the **Parental Lock** setting with the previously set password. Highlight and select **Change Password**, then enter the new password. Use **0-9** button on the remote control to enter a four digit password; to confirm password enter it again.

- You need your password for any future access into the **Parental Lock** settings.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

For **Country** selection of **Canada**:

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The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

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#### Select Country

Select the country name of **U.S.A.** or **Canada** for the appropriate ratings. The rating system varies between these two countries.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

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For **Country** selection of **Canada**:

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## Using the Parental Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

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For **Country** selection of **Canada**:

- [English Rating](#)
- [French Rating](#)
- [U.S.A. Rating](#)

#### Movie Rating

<b>G</b>	All children and general audience
<b>PG</b>	Parental guidance suggested
<b>PG-13</b>	Parental guidance for children under 13
<b>R</b>	Restricted viewing, parental guidance is suggested for ages under 17
<b>NC-17 and X</b>	No one 17 or under allowed



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## Using the Parental Lock

Lock

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use **0-9** button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password.

- The Parental Lock feature is also available with Video and Component (480i) inputs.

### To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

- [Rating](#)
- [Digital Rating](#) (Available only in U.S.A. where advanced ratings exist)
- [Unrated](#) (Available only when *Country* is set to U.S.A.)
- [Channel Block](#)
- [External Input Block](#)
- [Change Password](#)
- [Select Country](#)

#### Select Country

Select the country name of **U.S.A.** or **Canada** for the appropriate ratings. The rating system varies between these two countries.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

For **Country** selection of **Canada**:

- [English Rating](#)
- [French Rating](#)
- [U.S.A. Rating](#)

#### TV Rating

Age-Based Ratings

<b>TV-Y</b>	All children
<b>TV-Y7</b>	Directed to children age 7 and older
<b>TV-G</b>	General audience
<b>TV-PG</b>	Parental guidance suggested
<b>TV-14</b>	Parents strongly cautioned
<b>TV-MA</b>	Mature audience only

Content-Based Ratings

<b>FV</b>	Fantasy violence
<b>D</b>	Suggestive dialogue
<b>L</b>	Strong language
<b>S</b>	Sexual situations
<b>V</b>	Violence

- To ensure maximum blocking capability, set the Age-Based Ratings.



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- [Movie Rating](#)
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For **Country** selection of **Canada**:

- [English Rating](#)
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- [U.S.A. Rating](#)

#### English Rating

<b>C</b>	All children
<b>C8+</b>	Children 8 years and older
<b>G</b>	General programming
<b>PG</b>	Parental guidance
<b>14+</b>	Viewers 14 and older
<b>18+</b>	Adult programming

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## Using the Parental Lock

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For **Country** selection of **U.S.A.**:

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For **Country** selection of **Canada**:

- [English Rating](#)
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- [U.S.A. Rating](#)

#### French Rating

<b>G</b>	General programming
<b>8 ans+</b>	Not recommended for young children
<b>13 ans+</b>	Not recommended for ages under 13
<b>16 ans+</b>	Not recommended for ages under 16
<b>18 ans+</b>	Programming restricted to adults



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## Using the Parental Lock

Lock

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#### Select Country

Select the country name of **U.S.A.** or **Canada** for the appropriate ratings. The rating system varies between these two countries.

### Custom Rating System Chart

For **Country** selection of **U.S.A.**:

- [Movie Rating](#)
- [TV Rating](#) (Block programs by their rating, content or both)

#### U.S.A. Rating

See **TV Rating** under **U.S.A.** for details.

For **Country** selection of **Canada**:

- [English Rating](#)
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### Closed Captions (CC)

Allows you to select from several closed captions modes (for programs that are broadcasted with closed captioning).

- Off** Disables closed captions display.
- On** Enables closed captions display.
- On when Muting** Automatically displays closed caption when the TV is muted.

■ **Closed Captions (CC)** can be turned on and off by pressing the **CC** button on the remote control.

**Basic** Allows you to select basic closed caption options (EIA-608).

#### CC1, CC2, CC3, CC4

Displays a printed version of the dialog or sound effects of a program (should be set to **CC1** for most programs).

#### TEXT1, TEXT2, TEXT3, TEXT4

Displays network/station information presented using either half of the whole screen (if available).

**Digital** Allows you to set digital closed captioning to **Basic** (digital EIA-608).

**Display Options** Customize the **Closed Captions (CC)** displays. Select **As Broadcast**, **Small Text**, **Large Text**, or **Custom**.

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### Info Banner

Select **On** to display the program information such as program title and the remaining time (if the broadcaster offers this service). The **Info Banner** displays for a few seconds when the channel is changed. If you don't want to display the **Info Banner**, select **Off**.

- The TV will show the remaining time of the current program you are watching when the program time is less than 24 hours.

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### Clock/Timers: Sleep

Set the time in minutes (**Off, 15, 30, 60 or 120 minutes**) that you want the TV to remain on before shutting off automatically.

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### Clock/Timers: Current Time

Select to set the current time (day, hour, minutes and AM/PM).

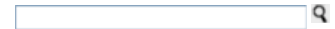
- 1) Press to select **Current Time**.
- 2) Press to set day, hour, minutes and AM/PM.
- 3) Press **MENU** to exit.

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### Clock/Timers: Timer

You can use the **Timer** to tune to a specific channel at a scheduled time.

To set **Timer** you must program the following settings: **Days**, **Time**, **Duration**, **Source**, **Channel** and **Volume**.

To set the **Days** press / to move through the days, then press to select.

To set **Time**, **Duration**, **Source**, **Channel** and **Volume** press / / / to adjust every option and then press to select.

Once you have established the settings **Timer** will be activated, if you want to deactivate **Timer** select **Off** (the previous settings are saved).

- **Timer** feature will not be available until you set the **Days**, **Time**, **Duration**, **Source**, **Channel** and **Volume**.

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### Language

Select the language of your choice for displaying all the on-screen settings: **English**, **Español** (Spanish), **Français** (French).



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### **Eco: Backlight**

This feature reduces the power consumption by turning off the backlight.

**On** The backlight is turned on.

**Off** Turns off the backlight to reduce the power consumption while the audio is left on.

**Auto** Turns off the backlight to reduce the power consumption when there is no signal only the audio is left on.

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### Eco: PC Power Management

Select **On** to have the TV automatically enter standby mode when there is no signal input for more than 5 minutes (after 5 minutes the **STANDBY** LED on the front panel illuminates with the **On** option). Select **Off** to disable this feature.

- Press **POWER** to exit from standby mode.
- **PC Power Management** is not VESA-compliant.

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### Eco: Light Sensor

Select **On** to enable the automatic picture (screen) brightness control. The light sensor measures the room brightness which allows the TV to automatically adjust the backlight brightness based on the picture settings and the ambient room light conditions.

- Be sure not to put anything around the sensor, as its function may be affected.
- In low light the range of the backlight control is reduced when the **Light Sensor** is set to **On**.

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### Picture Adjustments Lock

Select **Lock** to prevent the picture adjustments from being changed. To disable this feature and allow picture adjustments, select **Unlock**.



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### Product Support

Sony Contact information is available from this screen for your convenience. This option also provides specific information such as Model Name, Serial Number and Software Version. Select **OK** to reset the TV to factory default settings, or **Cancel** if you do not want to reset the TV to factory default settings.

**WARNING:** The reset will clear all of your customized settings. **Parental Lock** password may be required if it has been created.

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## Other Information

If you have questions, service needs, or require technical assistance related to the use of your Sony TV, please visit our website or call one of the following numbers:

- <http://www.sony.com/tvsupport> for US Support
- <http://www.sony.ca/support> for Canadian Support
- 1-800-222-SONY(7669) for US Support
- 1-877-899-SONY(7669) for Canadian Support

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## Troubleshooting - No Picture

- [No picture](#)
- [Cannot receive or select channels](#)
- [TV is locked to one channel](#)
- [The TV turns off automatically](#)
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Click a condition to the left for an explanation/solution.

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## Troubleshooting - No Picture

- [No picture](#)
- [Cannot receive or select channels](#)
- [TV is locked to one channel](#)
- [The TV turns off automatically](#)
- [No picture from some video sources](#)

- Check the [Backlight](#) settings.
- Confirm your external inputs list and make sure you select TV (cable/antenna channels).
- Perform the [Auto Program](#) to add receivable channels that are not presently in the TV's channel list.
- If there is no signal, the screen saver will appear.

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## Troubleshooting - No Picture

- [No picture](#)
- [Cannot receive or select channels](#)
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- To receive or select Cable channels, make sure to select **Cable** on the option **Cable/Antenna** under **Channel** menu. To receive or select UHF channels over an antenna, make sure to select **Antenna**.
- Make sure the power cord is connected securely.
- Turn on the power of the TV.
- Check cable/antenna connections.
- Perform the **Auto Program** to add receivable channels that are not presently in the TV's channel list.

**\*IMPORTANT: You must perform Auto Program after cable or antenna is connected. If you cancel Auto Program before completion, some channels may not be available.**

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## Troubleshooting - No Picture

- [No picture](#)
- [Cannot receive or select channels](#)
- [TV is locked to one channel](#)
- [The TV turns off automatically](#)
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- Perform **Auto Program** to add available channels that are not presently in the TV's channel's list.

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## Troubleshooting - No Picture

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- Check if [Sleep](#) is activated, or confirm the **Duration** setting of [Timer](#).
- Check **PC Power Management** under [Eco](#) settings.

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## Troubleshooting - No Picture

- [No picture](#)
- [Cannot receive or select channels](#)
- [TV is locked to one channel](#)
- [The TV turns off automatically](#)
- [No picture from some video sources](#)

- Check the connection between the optional video equipment and the TV.
- Press **INPUT** on the remote control.
- Press **MENU** on the remote control. Select your desired input from the **External Inputs** list.



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## Troubleshooting - Poor picture

- [Double images or ghosts](#)
- [Only snow and noise appear on the screen](#)
- [Dotted lines or stripes](#)
- [No color / Dark picture / Color is not correct / The picture is too bright](#)
- [Noisy picture](#)
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## Troubleshooting - Poor picture

- [Double images or ghosts](#)
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- [Dotted lines or stripes](#)
- [No color / Dark picture / Color is not correct / The picture is too bright](#)
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- Check cable/antenna connections.
- Check the antenna location and direction.

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## Troubleshooting - Poor picture

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- [No color / Dark picture / Color is not correct / The picture is too bright](#)
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- Check if the antenna is broken or bent.
- Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.)



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## Troubleshooting - Poor picture

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- [Only snow and noise appear on the screen](#)
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- [No color / Dark picture / Color is not correct / The picture is too bright](#)
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- Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers.
- If using 300 ohm twin lead, move the excess lead away from the TV or try using 75 ohm coaxial cable instead.



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## Troubleshooting - Poor picture

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- Adjust the **Picture Mode** settings in the [Picture](#) menu.

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## Troubleshooting - Poor picture

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- [No color / Dark picture / Color is not correct / The picture is too bright](#)
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- Make sure that the antenna is connected using a 75-ohm coaxial cable (not supplied).
- Keep the antenna cable away from other connecting cords.
- To avoid TV interference, make sure to use an undamaged antenna cable.



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## Troubleshooting - Poor picture

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- [Dotted lines or stripes](#)
- [No color / Dark picture / Color is not correct / The picture is too bright](#)
- [Noisy picture](#)
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- Transporting the TV from a cold to a warm location or a sudden change in room temperature may cause moisture condensation, resulting in a blurry picture or poor color. Turn off your TV and wait a few hours before powering on again.

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## Troubleshooting - No Sound

- [No sound / Good picture](#)
- [Audio noise](#)

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## Troubleshooting - No Sound

- [No sound / Good picture](#)
- [Audio noise](#)

- Check the volume control.
- Press **MUTING** or **VOL +** so that "Muting" disappears from the screen.
- Set **Speakers** to **TV Speakers** in the [Sound](#) menu. If it is set to **Audio System**, sound is not output from the TV's speakers regardless of the TV's volume control.
- When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (OPTICAL) may not provide an audio signal.
- When tuned to a digital channel with [Alternate Audio](#), the broadcaster may not be broadcasting your preferred [Alternate Audio](#) language.

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## Troubleshooting - No Sound

- [No sound / Good picture](#)
- [Audio noise](#)

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



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## Troubleshooting - PC Input

- [No picture / No signal](#)
- [Poor Picture](#)

Click a condition to the left for an explanation/solution.

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## Troubleshooting - PC Input

- [No picture / No signal](#)
- [Poor Picture](#)

- Confirm the PC is correctly connected to the TV in the PC IN (HD15 cable not supplied).
- Ensure the output signal from the PC is one of the formats listed [here](#).
- Turn the PC off. Confirm the PC connection and restart the PC. Plug-and-play will auto-detect the TV and correctly set up PC timing.
- Verify [PC Power Management](#) is activated
- Check the standby mode of your PC. The TV automatically will enter to standby mode if there is no signal input.

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## Troubleshooting - PC Input

- [No picture / No signal](#)
- [Poor Picture](#)

- Adjust the resolution.

- Adjust [Phase](#).

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## Troubleshooting - BRAVIA Sync

- [Cannot find connected BRAVIA Sync HDMI device](#)
- [Cannot control second AV receiver](#)

Click a condition to the left for an explanation/solution.

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## Troubleshooting - BRAVIA Sync

- [Cannot find connected BRAVIA Sync HDMI device](#)
- [Cannot control second AV receiver](#)

- Make sure that the **Control for HDMI** is set up on both the TV and the optional device compatible with BRAVIA Sync.



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## Troubleshooting - BRAVIA Sync

- [Cannot find connected BRAVIA Sync HDMI device](#)
- [Cannot control second AV receiver](#)

- Only one A/V receiver may be used with the BRAVIA Sync and [Control for HDMI](#) functions at one time.

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## Troubleshooting - General

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- [Suddenly the picture gets smaller](#)
- ["Black box" on screen](#)
- [Black bands appear at the edges of the screen](#)
- [Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes](#)
- [Remote control does not operate](#)
- [Some digital cable channels are not being displayed](#)
- [Lost password](#)
- [How to reset the TV to factory settings](#)

Click a condition to the left for an explanation/solution.

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- The current **Wide Mode** setting is automatically replaced with the **4:3 Default** setting when you change the channel or video input, if **4:3 Default** in the [Screen](#) menu is set to other than **Off**. If you want to lock in **Wide Mode** selected with **WIDE** on the remote control, set **4:3 Default** to **Off** in the [Screen](#) menu.
- Turn off the **Auto Wide** option in the [Screen](#) menu.

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- The picture gets smaller during the commercials, this is due to the method the provider broadcasts their contents. When HD content channels switch to SD definition content (commercials), the picture may be small with a black border.
- **Auto Wide** will not expand the picture during these content changes since the content information is regulated by the channel signal provider. You can manually change the **Wide Mode** if you prefer. This setting will remain in effect until you change the channel or input or manually change the **Wide Mode** again.

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- You have selected a text option and no text is available. To turn off this feature, set the [Closed Captions](#) option to **Off**. If you were trying to select closed captioning, select **CC1** instead of **Text1-4**.

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- Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).
- Programs in 4:3 aspect ratio will have bands on left and right sides of the screen.
- Programs broadcasted in HD formats (720p and 1080i) with 4:3 content will commonly have black bands on the left and right sides of the screen which are added by the broadcaster.
- **Auto Wide** will not expand the picture when the black bands on the sides of the screen are added by the broadcaster. You can manually change the **Wide Mode** to **Wide Zoom**, or **Zoom** to fill the screen, which will remain in affect until you change the channel or input or manually change the **Wide Mode** again.

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- The compression used by certain digital broadcasts and DVDs may cause your TV's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV's large screen and ability to show very fine detail, and is normal for certain digitally recorded programs.

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- Check the polarity of the batteries or replace the batteries.
- Point the remote control at the remote control sensor located at the front of the TV.
- Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps.
- Keep the remote control sensor area clear from obstacles.

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- Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information.
- The digital cable channel may be set to **Hidden** in the **Manage Channels** setting under **Channel** menu.

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- Select the **Parental Lock** menu, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password.

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
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- Turn on the TV. While holding down  on the remote control, press **POWER** on the TV. Release the  button.
- Select **Product Support** option under **Setup** menu and select **OK** on **Return settings to factory defaults**.

**WARNING:** The reset will clear all of your customized settings. **Parental Lock** password may be required if it has been created.

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## Safety and Legal Information

### CAUTION

To prevent electric shock and blade exposure, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted.

- Operate the TV only on 120 V AC.
- Avoid operating the TV at temperatures below 41°F (5 °C).

### Declaration of Conformity

Trade Name: SONY  
Model: KDL-32S5100/KDL-40S5100/KDL-46S5100/KDL-52S5100  
Responsible Party: Sony Electronics Inc.  
Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A.  
Telephone Number: 858-942-2230

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

### FCC Related Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Pursuant to FCC regulations, you are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

### Note

This television includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

### For Customers in the United States

The lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance ([www.eiae.org](http://www.eiae.org)).

### To Customers

Sufficient expertise is required for TV installations. Be sure to subcontract the installation to a Sony dealer or licensed contractor and pay adequate attention to safety during the installation.

### Licensing Information

Macintosh is a trademark of Apple Inc., registered in the U.S. and other countries.


HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Ferguson Patent Properties, LLC:

U.S. Patent No. 5,717,422

U.S. Patent No. 6,816,141

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Blu-ray Disc is a trademark.

“BRAVIA”, BRAVIA, BRAVIA Sync and  are trademarks or registered trademarks of Sony Corporation.

“PLAYSTATION” is a registered trademark and “PS3” is a trademark of Sony Computer Entertainment Inc.





Your BRAVIA TV is ENERGY STAR® qualified in the "Home" mode.

It meets strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of these government agencies, designed to promote energy efficient products and practices.



- When the TV is initially set up, it is designed to meet ENERGY STAR requirements.
- Changes to certain features, settings, and functionalities of this TV (i.e. Picture/Sound, Light Sensor, Power Savings) can slightly change the power consumption.

Depending upon such changed settings, the power consumption may increase which possibly could exceed the limits required for the ENERGY STAR qualification.

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## Specifications

Model	KDL-32S5100	KDL-40S5100	KDL-46S5100	KDL-52S5100
<b>System</b>				
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)			
Channel coverage	Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69 Analog Cable: 1 - 135 / Digital Cable: 1 - 135			
Panel system	LCD (Liquid Crystal Display) Panel			
Speaker output	10 W + 10 W			
<b>Input/Output jacks</b>				
CABLE/ANTENNA	75-ohm external terminal for RF inputs			
VIDEO IN 1/2	S VIDEO (4-pin mini DIN) (VIDEO 2 only): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms			
COMPONENT IN 1/2	YPBPR (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms / PR: 0.7 Vp-p, 75 ohms / Signal format: 480i, 480p, 720p, 1080i, 1080p AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms			
HDMI IN 1/2/3	HDMI: Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p / Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24bits AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms			
AUDIO OUT	500 mVrms (Typical)			
DIGITAL AUDIO OUT (OPTICAL)	PCM optical signal			
PC IN	D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive See the <a href="#">PC and HDMI Input Signal Reference Chart</a> .			
PC AUDIO INPUT	Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms			
<b>Power and others</b>				
Power requirement	120 V AC, 60 Hz			
Power consumption in use (maximum)	120 W	200 W	245 W	295 W
Power consumption in standby	All models less than 1W.			
Screen size (inches measured diagonally)	31.5 (32 class)	40	46	52
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)			
Speaker/Full Range (2)	35mm × 175mm or 1 7/16in. × 7in.			
Dimensions (W x H x D) with stand (mm)	798 × 583 × 227	987 × 683 × 271	1,123 × 770 × 323	1,262 × 869 × 362
with stand (inches)	31 1/2 × 23 × 9	38 7/8 × 27 × 10 3/4	44 1/4 × 30 3/8 × 12 3/4	49 3/4 × 34 1/4 × 14 3/8
Dimensions (W x H x D) without stand (mm)	798 × 536 × 89	987 × 636 × 93	1,123 × 723 × 96	1,262 × 822 × 115
without stand (inches)	31 1/2 × 21 1/8 × 3 5/8	38 7/8 × 25 1/8 × 3 3/4	44 1/4 × 28 1/2 × 3 7/8	49 3/4 × 32 3/8 × 4 5/8
Dimensions (W x H x D) wall-mount hole pattern	200mm × 200mm	300mm × 300mm		
wall-mount screw size	M6			
Mass with stand (kg)	13.1	18.5	25.5	34.5
Mass with stand (lbs.)	28.9	40.8	56.2	76.0
Mass without stand (kg)	11.9	16.8	22.6	29.9
Mass without stand (lbs.)	26.3	37.1	49.8	65.9
Supplied accessories	Remote control RM-YD028 (1) / Size AA batteries (2) / Cable holder (1 attached to the TV) / Operating Instructions (1) / Quick Setup Guide (1) / Warranty Card (1) / Safety and Regulatory Booklet (1) / Attaching the Table-Top stand flyer (1) / Screws (4) (For KDL-52S5100, the screws are attached.)			
Optional accessories	Connecting cables / Wall-Mount Bracket: SU-WL500			

- Optional accessories availability depends on its stock.
- Design and specifications are subject to change without notice.

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