SONY

BRAVIA

Sony Reference Book

KDL-52V5100
KDL-46V5100
KDL-40SL150
KDL-40V5100
KDL-32XBR9

SONY

BRAVIA

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.

This Online Reference Book will be updated periodically.

Getting Started

- Installing the TV
- Locating Inputs and Outputs
- Connecting the TV
- Initial Setup

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

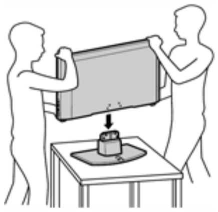
Back to Getting Started

Next to Carrying the TV

Getting Started > Installing the TV > Carrying the TV

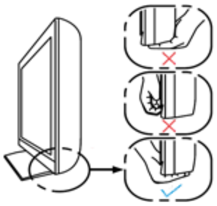
Carrying the TV

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.

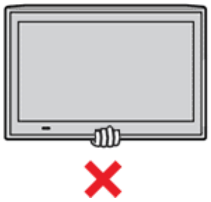


Be sure to consider the following while setting up your TV:

- 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.

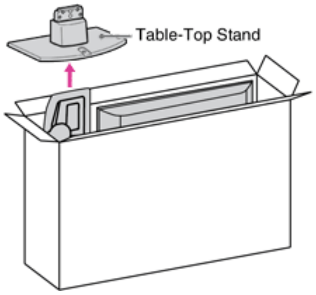
Back to Installing the TV

Next to Preparation for Table-Top Stand

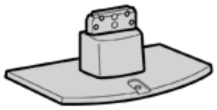
Preparation for a Table-Top Stand

Follow the assembling steps required to place on a TV stand (except model, KDL-52V5100).

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.

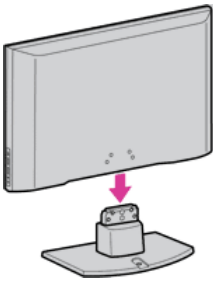


2) Place the Table-Top Stand on a level and stable surface.

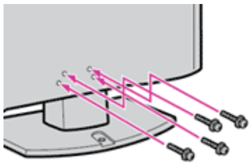


3) Gently slide the TV unit onto the neck of the Table-Top Stand and align the screw holes.

- 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.



Back to Carrying the TV

Next to Preparation for Wall-Mount Bracket

Preparation for a Wall-Mount Bracket

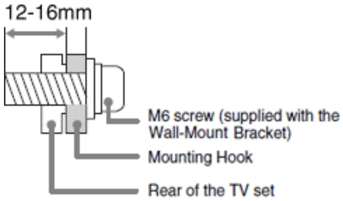
All models except the 52 inch (measured diagonally) model can be mounted to a wall using the Wall-Mount Bracket (not supplied) out of the box as packaged.

If you are mounting the 52 inch model to a wall, remove the Table-Top Stand. For removing the Table-Top Stand, refer to the instructions attached to the TV.

Prepare the TV for the Wall-Mount Bracket before making cable connections.

Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and that wall-mounting of your TV should be performed by a Sony dealer or licensed contractor.

- 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 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:

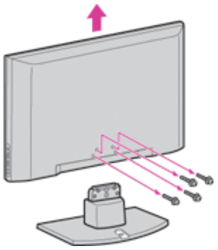
1) Unplug the AC power cord and disconnect all the cables from the TV.

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.



Back to Preparation for a Table-Top Stand

Next to Installing the Wall-Mount Bracket

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.

Back to Preparation for a Wall-Mount Bracket **Next to Installing the Wall-Mount Bracket (Page 2)**

Getting Started > Installing the TV > Installing the Wall-Mount Bracket

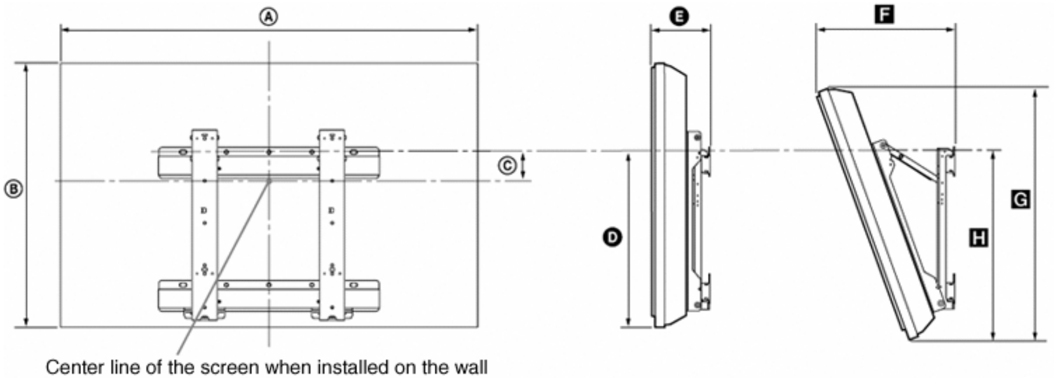
Installing the Wall-Mount Bracket (Page 2)

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.



Dimensions Table

Model Name	Display Dimension		Screen center	Length of Mounting at 0 degree		Length of Mounting at 20 degree angle		
	width	height						
	A	B	C	D	E	F	G	H
KDL-32XBR9	31 1/2 798	21 1/4 537	6 7/8 172	18 1/4 463	5 3/4 143	11 1/2 292	20 1/8 511	19 3/8 492
KDL-40V5100	38 7/8 987	25 1/8 638	4 7/8 122	18 1/4 463	5 7/8 147	13 330	23 7/8 604	19 1/2 493
KDL-40SL150	38 7/8 991	25 1/4 639	4 7/8 122	18 1/4 463	5 7/8 147	13 329	24 605	19 1/2 494
KDL-46V5100	44 1/4 1,123	28 5/8 725	3 3/8 84	18 5/8 471	6 150	14 1/4 359	27 1/8 686	19 7/8 503
KDL-52V5100	49 3/4 1,262	32 1/2 823	1 9/16 39	18 7/8 478	6 3/4 169	16 1/8 409	30 3/4 778	20 3/8 515

Back to Installing the Wall-Mount Bracket (Page 1)
Next to Installing the Wall-Mount Bracket (Page 3)

Getting Started > Installing the TV > Installing the Wall-Mount Bracket

Installing the Wall-Mount Bracket (Page 3)

Installing the Wall-Mount Bracket and Mounting Hooks

3) Disconnect all cables and remove the Table-Top Stand.

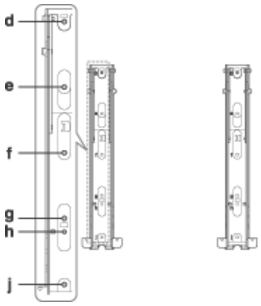
4) Secure the Mounting Hook to the rear of the TV.
Determine the screw locations and secure the Mounting Hooks to the rear of the TV. Refer to the “Screw and Hook Locations Diagram/Table” shown here.

Screw and Hook Locations Diagram

TV Model	Screw Location	Hook location
KDL-32XBR9	e, g	c
KDL-40SL150	d, g	b
KDL-40V5100	d, g	b
KDL-46V5100	d, g	b
KDL-52V5100	d, g	b

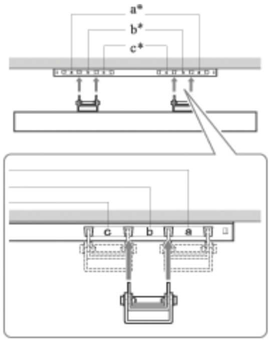
Screw location

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-40SL150/KDL-40V5100/KDL-46V5100/KDL-52V5100.

* Hook position “a” and “b” cannot be used for the model KDL-32XBR9.

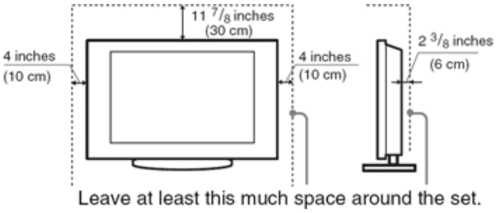
Back to Installing the Wall-Mount Bracket (Page 2)

Next to When Installing the TV Against a Wall or Enclosed Area

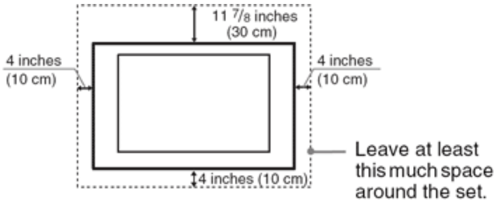
When Installing the TV Against a Wall or Enclosed Area

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

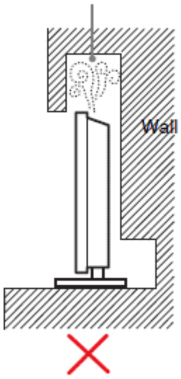

11 7/8 inches
(30 cm)
4 inches
(10 cm)
4 inches
(10 cm)
2 3/8 inches
(6 cm)
Leave at least this much space around the set.

Installed on the wall

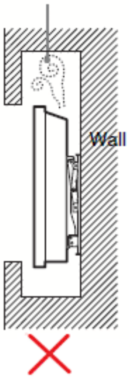

11 7/8 inches
(30 cm)
4 inches
(10 cm)
4 inches
(10 cm)
4 inches (10 cm)
Leave at least this much space around the set.

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

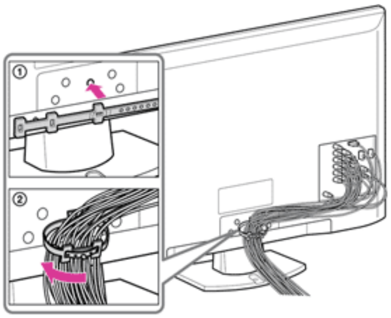
- Do not expose the screen to direct illumination or sunlight.
- Use spot lighting directed down from the ceiling or cover the windows that face the screen with opaque drapery.
- Install the TV in a room where the floor and walls are not of a reflective material.
- When moving the TV from a cold area 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.

Back to Installing the Wall-Mount Bracket (Page 3)

Next to Bundling the Connection Cables

Bundling the Connecting Cables

You can bundle the connecting cables with the supplied cable clamper as illustrated.



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

Back to When Installing the TV Against a Wall or Enclosed Area

Next to Securing the TV

Getting Started > Installing the TV > Securing the TV

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.

Back to Bundling the Connecting Cables

Next to Securing the TV (Page 2)

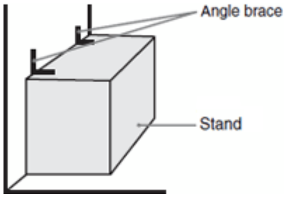
Getting Started > Installing the TV > Securing the TV

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.

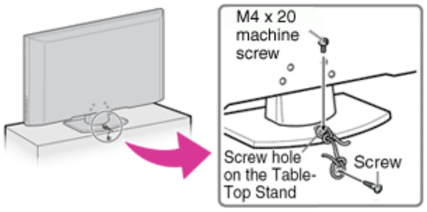
Recommended Measures to Secure the TV



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 × 20 machine screw(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**
- For Canada call: **1-877-899-7669**

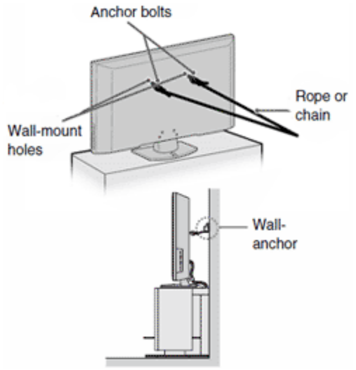
Back to Securing the TV (Page 1) Next to Securing the TV (Page 3)

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)



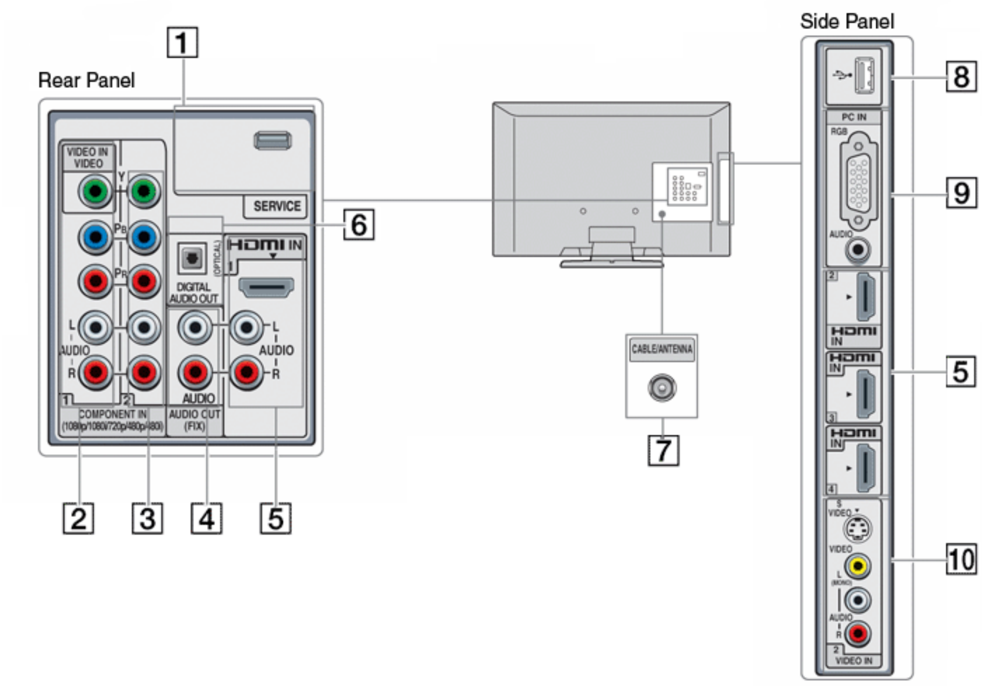
- Securing the TV to the stand without securing it and the stand to the wall provides minimum protection against the TV toppling over. For further protection, follow all three measures recommended above.

Back to Securing the TV (Page 2)

Next to Locating Inputs and Outputs

Locating Inputs and Outputs

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


Rear Panel
Side Panel
1
2
3
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8
9
10
VIDEO IN
VIDEO
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PB
PR
L
AUDIO
R
1
2
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
HDMI IN
1
DIGITAL AUDIO OUT
(OPTICAL)
AUDIO
AUDIO OUT
(FIX)
CABLE/ANTENNA
PC IN
RGB
AUDIO
2
HDMI IN
3
4
S VIDEO
VIDEO
L
(MONO)
AUDIO
R
2
VIDEO IN

Click a number on the diagram for more information.

Be sure to refer to the Quick Setup Guide for:

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

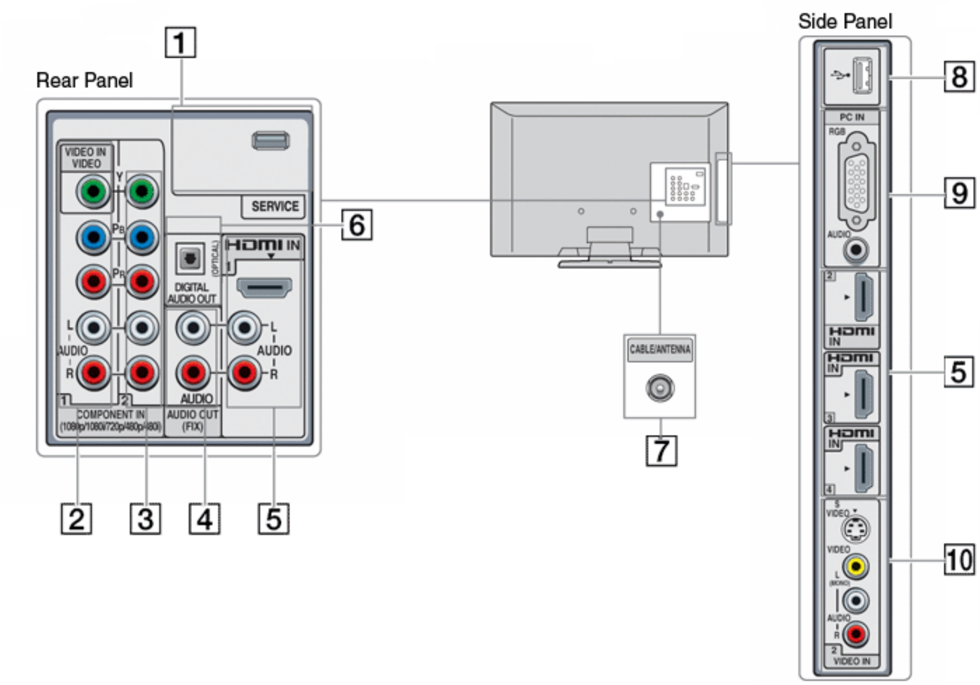
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
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VIDEO IN
VIDEO
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2
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
6
(OPTICAL)
DIGITAL
AUDIO OUT
HDMI IN
1
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AUDIO
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AUDIO
AUDIO OUT
(FIX)
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3
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5
CABLE/ANTENNA
7
Side Panel
8
PC IN
RGB
AUDIO
9
2
HDMI IN
HDMI IN
3
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HDMI IN
4
S VIDEO
VIDEO
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(MONO)
AUDIO
R
2
VIDEO IN
10

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.

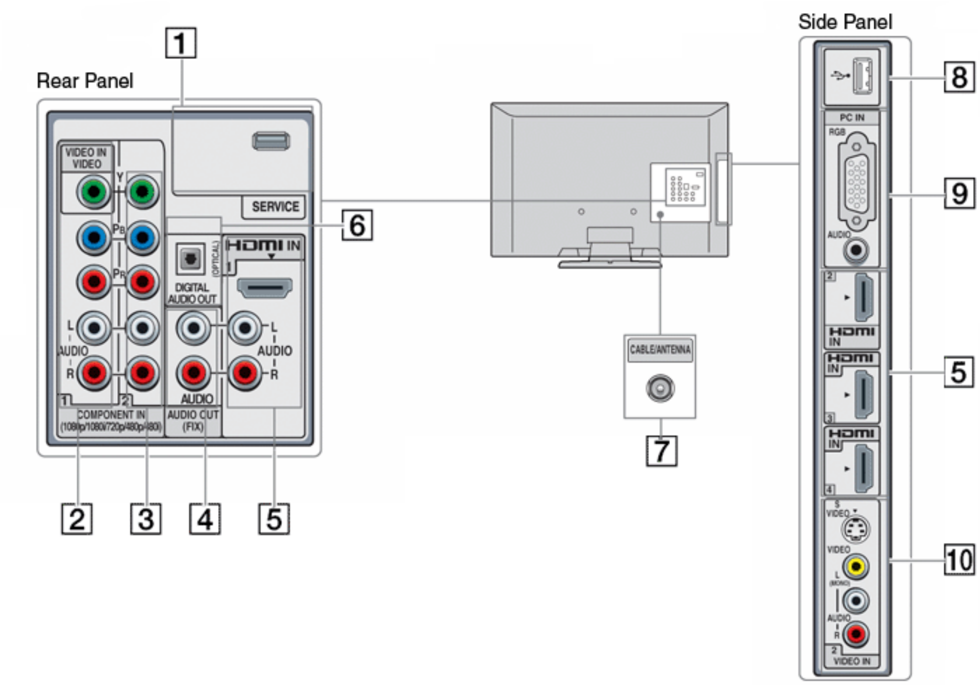
Back to Securing the TV (Page 3)

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.


Rear Panel
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VIDEO IN
VIDEO
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PB
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AUDIO
R
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2
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
6
HDMI IN
1
(OPTICAL)
DIGITAL AUDIO OUT
AUDIO
AUDIO OUT
(FIX)
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AUDIO
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CABLE/ANTENNA
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Side Panel
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PC IN
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AUDIO
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HDMI IN
HDMI IN
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HDMI IN
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S VIDEO
VIDEO
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(MONO)
AUDIO
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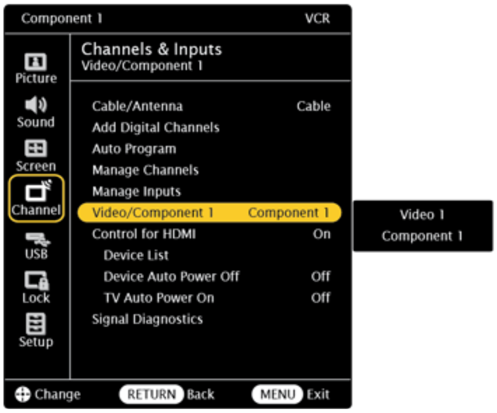
VIDEO IN
10

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. You must configure the input type if the input is used as composite or component video input. Otherwise a black & white or distorted picture may occur. To configure the input type, press **MENU**, select **Channel** menu then select **Video/Component 1** to choose **Video 1** or **Component 1** as shown here.



Component 1 VCR

Picture
Sound
Screen
Channel
USB
Lock
Setup

Channels & Inputs
Video/Component 1

Cable/Antenna Cable
Add Digital Channels
Auto Program
Manage Channels
Manage Inputs
Video/Component 1 Component 1
Control for HDMI On
Device List
Device Auto Power Off Off
TV Auto Power On Off
Signal Diagnostics

Video 1
Component 1

Change RETURN Back MENU Exit

Be sure to refer to the Quick Setup Guide for:

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

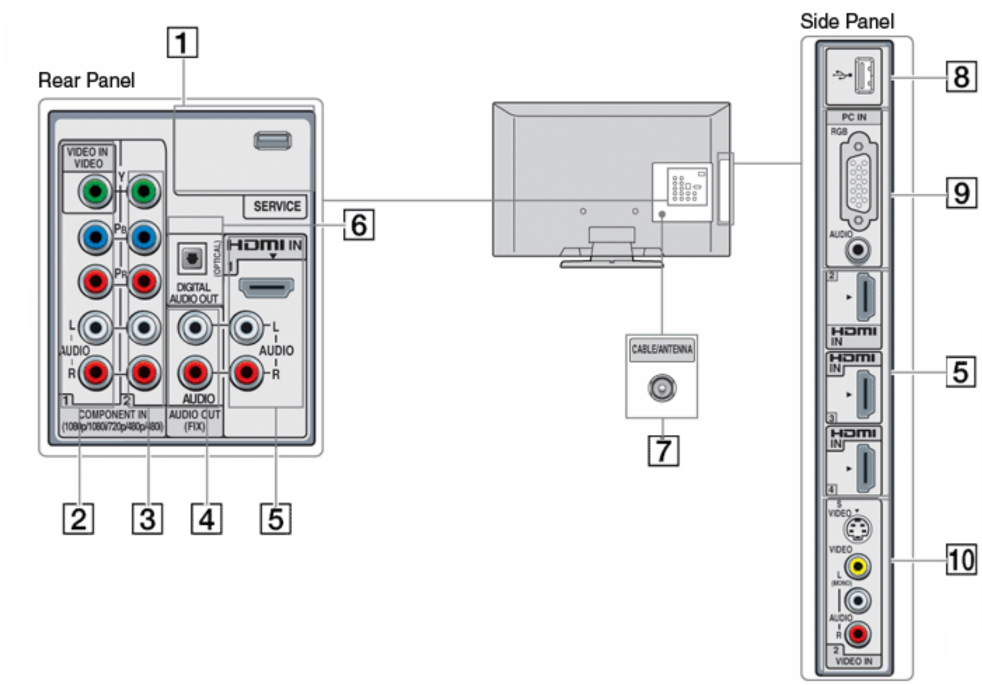
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
Side Panel
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VIDEO IN
VIDEO
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AUDIO
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(1080p/1080i/720p/480p/480i)
SERVICE
(OPTICAL)
DIGITAL
AUDIO OUT
HDMI IN
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AUDIO
R
AUDIO
AUDIO OUT
(FIX)
CABLE/ANTENNA
PC IN
RGB
AUDIO
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HDMI
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HDMI
IN
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HDMI
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VIDEO
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AUDIO
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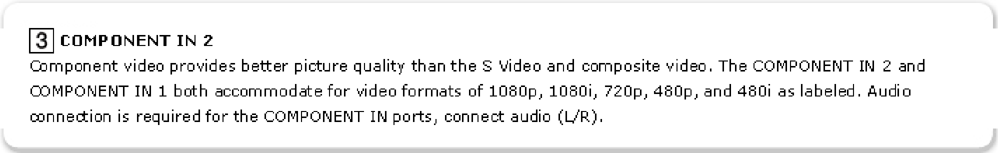
2
VIDEO IN



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

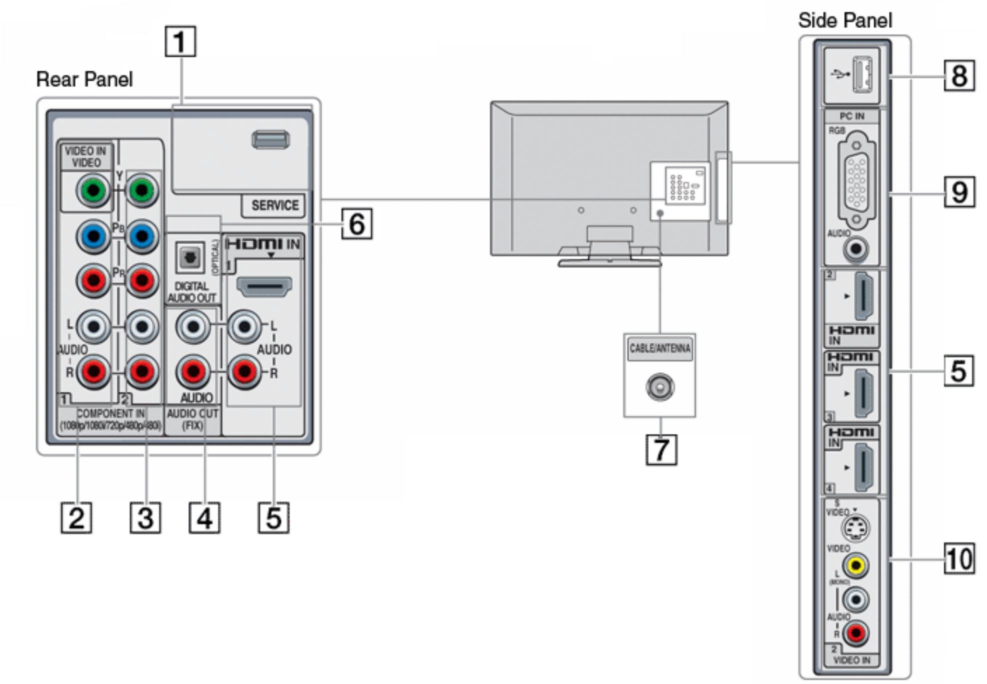
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
1
VIDEO IN
VIDEO
Y
PB
PR
L
AUDIO
R
1
2
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
6
DIGITAL
AUDIO OUT
(OPTICAL)
HDMI IN
1
AUDIO
AUDIO OUT
(FIX)
L
AUDIO
R
2
3
4
5
CABLE/ANTENNA
7
Side Panel
8
PC IN
RGB
AUDIO
9
2
HDMI
IN
HDMI
IN
3
5
HDMI
IN
4
S
VIDEO
VIDEO
L
(MONO)
AUDIO
R
2
VIDEO IN
10

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

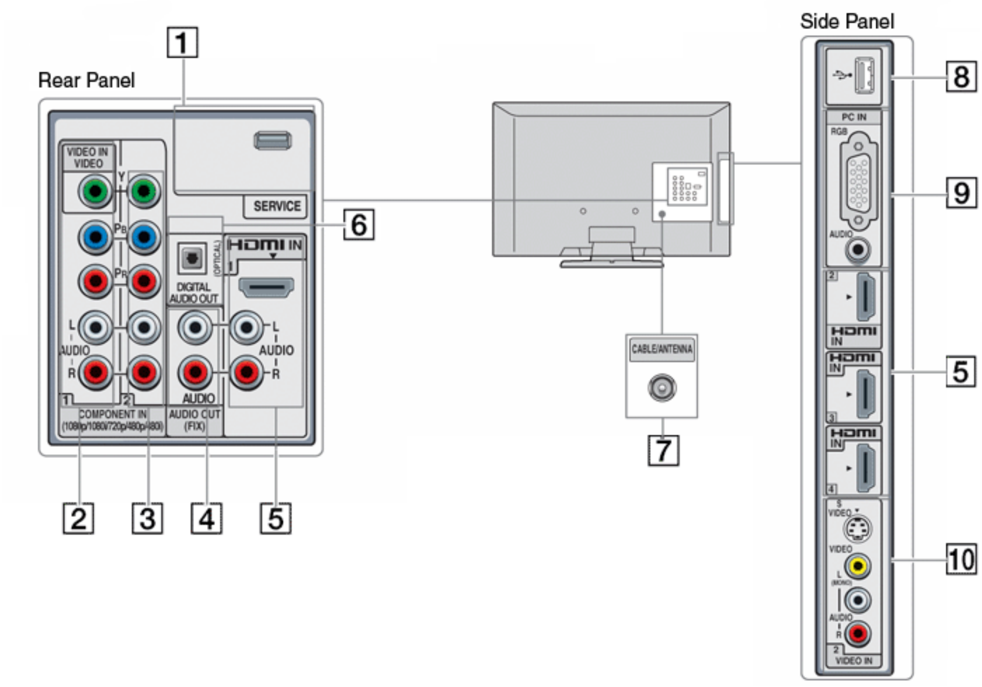
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
Side Panel
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4
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8
9
5
10
VIDEO IN
VIDEO
Y
PB
PR
L
AUDIO
R
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
HDMI IN
1
(OPTICAL)
DIGITAL AUDIO OUT
AUDIO
AUDIO OUT
(FIX)
CABLE/ANTENNA
PC IN
RGB
AUDIO
2
HDMI IN
3
4
S VIDEO
VIDEO
L (MONO)
AUDIO
R
2
VIDEO IN

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

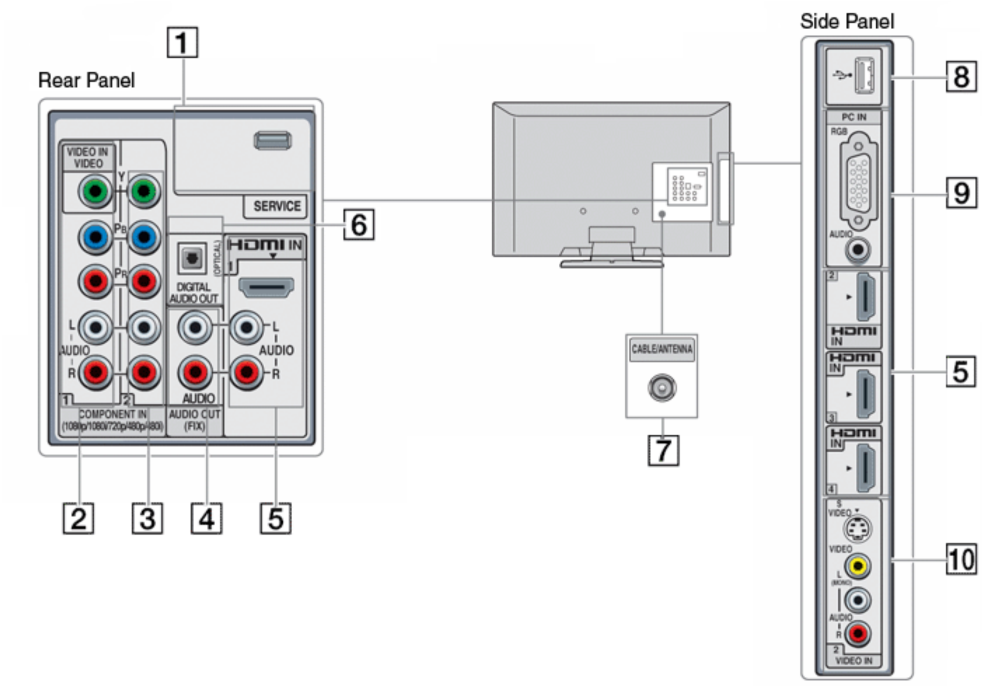
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
Side Panel
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4
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7
8
9
10
VIDEO IN
VIDEO
Y
PB
PR
L
AUDIO
R
COMPONENT IN (1080p/1080i/720p/480p/480i)
SERVICE
DIGITAL AUDIO OUT (OPTICAL)
HDMI IN
AUDIO
AUDIO OUT (FIX)
CABLE/ANTENNA
PC IN
RGB
AUDIO
HDMI IN
S VIDEO
VIDEO
L (MONO)
AUDIO
R
VIDEO IN

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

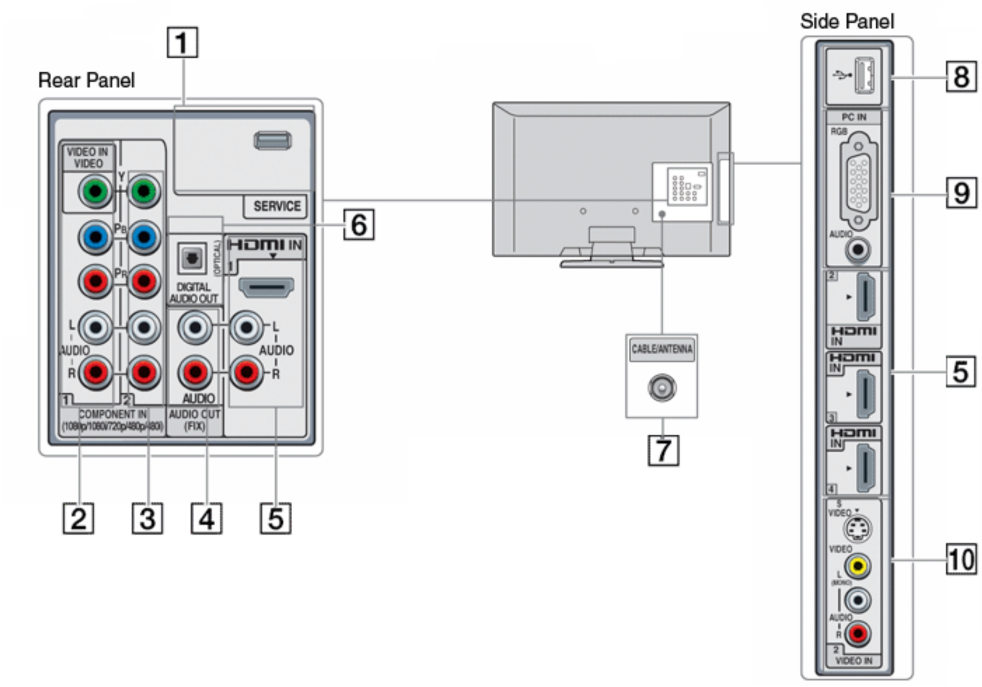
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
Side Panel
1
2
3
4
5
6
7
8
9
10
VIDEO IN
VIDEO
Y
PB
PR
L
AUDIO
R
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
DIGITAL AUDIO OUT
(OPTICAL)
HDMI IN
AUDIO
AUDIO OUT
(FIX)
CABLE/ANTENNA
PC IN
RGB
AUDIO
HDMI IN
S VIDEO
VIDEO
(MONO)
VIDEO IN

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

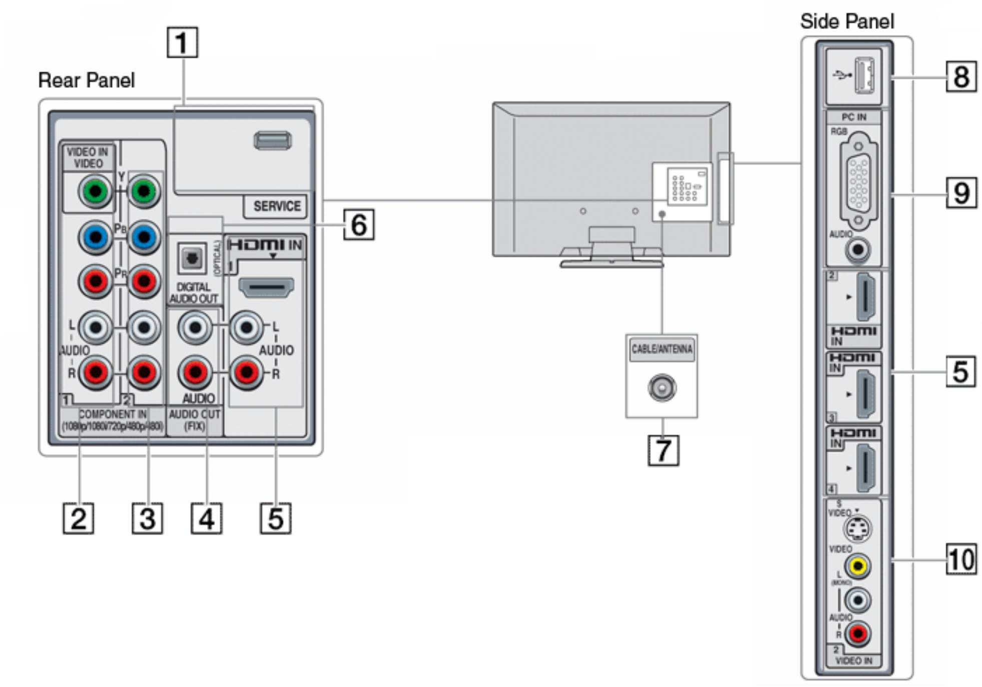
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Rear Panel
1
VIDEO IN
VIDEO
Y
PB
PR
L
AUDIO
R
SERVICE
6
DIGITAL AUDIO OUT
(OPTICAL)
HDMI IN
1
AUDIO
L
R
COMPONENT IN (1080p/1080i/720p/480p/480i)
AUDIO OUT (FIX)
2
3
4
5
CABLE/ANTENNA
7
Side Panel
8
PC IN
RGB
AUDIO
9
HDMI IN
2
3
4
5
S VIDEO
VIDEO
L (MONO)
AUDIO
R
VIDEO IN
10

8 USB

Connects to USB equipment to access photo and music files.

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.

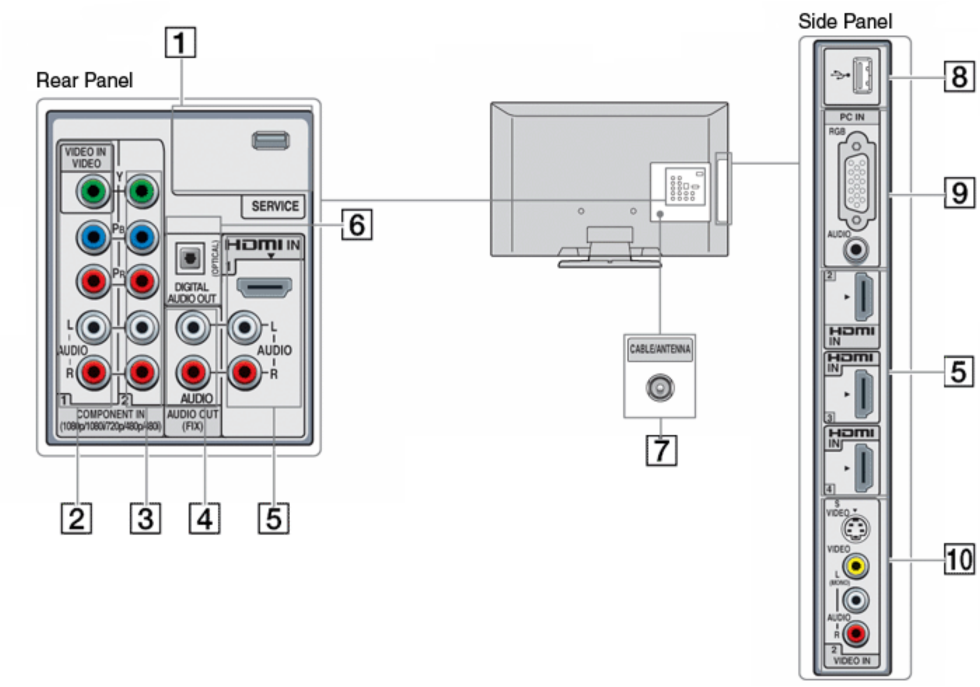
Back to Securing the TV (Page 3)

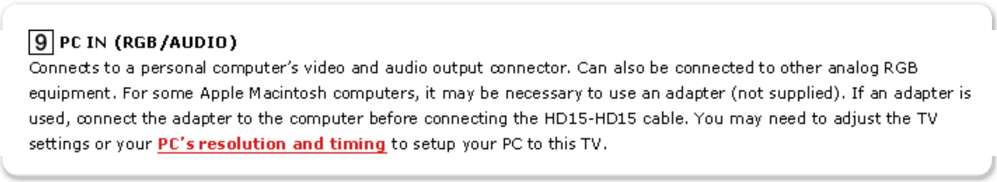
Next to Connecting the TV

Getting Started > Locating Inputs and Outputs

Locating Inputs and Outputs

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


Rear Panel
Side Panel
1
2
3
4
5
6
7
8
9
10
VIDEO IN VIDEO
Y
PB
PR
L
AUDIO
R
1
2
COMPONENT IN (1080p/1080i/720p/480p/480i)
SERVICE
(OPTICAL)
DIGITAL AUDIO OUT
HDMI IN
1
AUDIO
AUDIO OUT (FIX)
L
AUDIO
R
CABLE/ANTENNA
PC IN
RGB
AUDIO
2
HDMI IN
3
HDMI IN
4
S VIDEO
VIDEO
L (MONO)
AUDIO
R
2
VIDEO IN



9 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

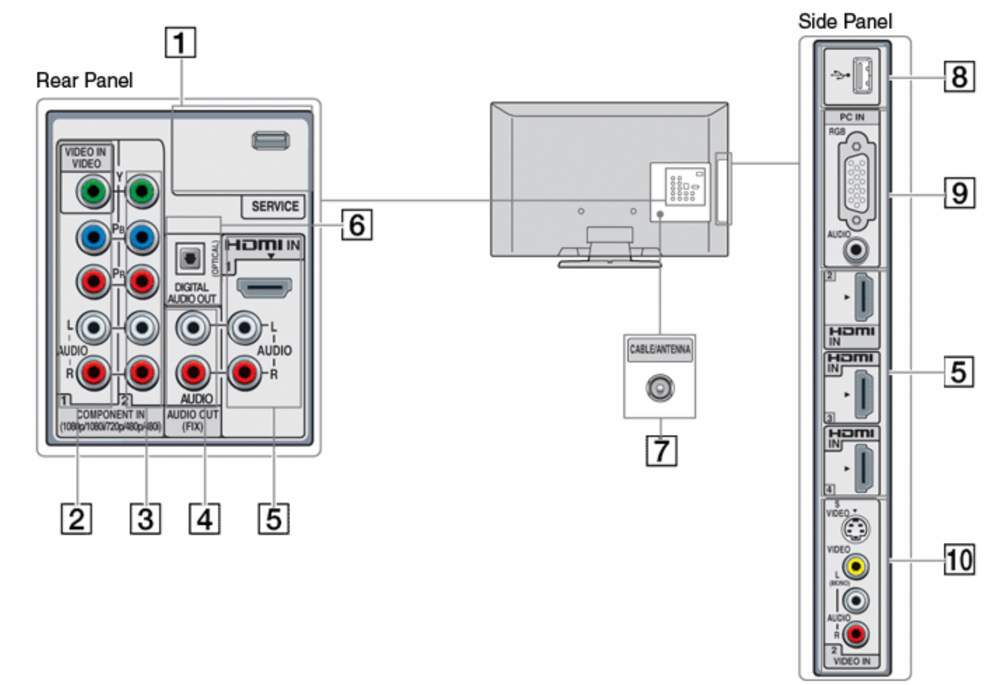
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.

Back to Securing the TV (Page 3)

Next to Connecting the TV

Locating Inputs and Outputs

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


Side Panel
Rear Panel
1
2
3
4
5
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9
5
10
VIDEO IN
VIDEO
Y
PB
PR
L
AUDIO
R
COMPONENT IN
(1080p/1080i/720p/480p/480i)
SERVICE
HDMI IN
(OPTICAL)
DIGITAL AUDIO OUT
AUDIO
AUDIO OUT (FIX)
CABLE/ANTENNA
PC IN
RGB
AUDIO
HDMI IN
S VIDEO
VIDEO
L (MONO)
AUDIO
R
VIDEO IN

10 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

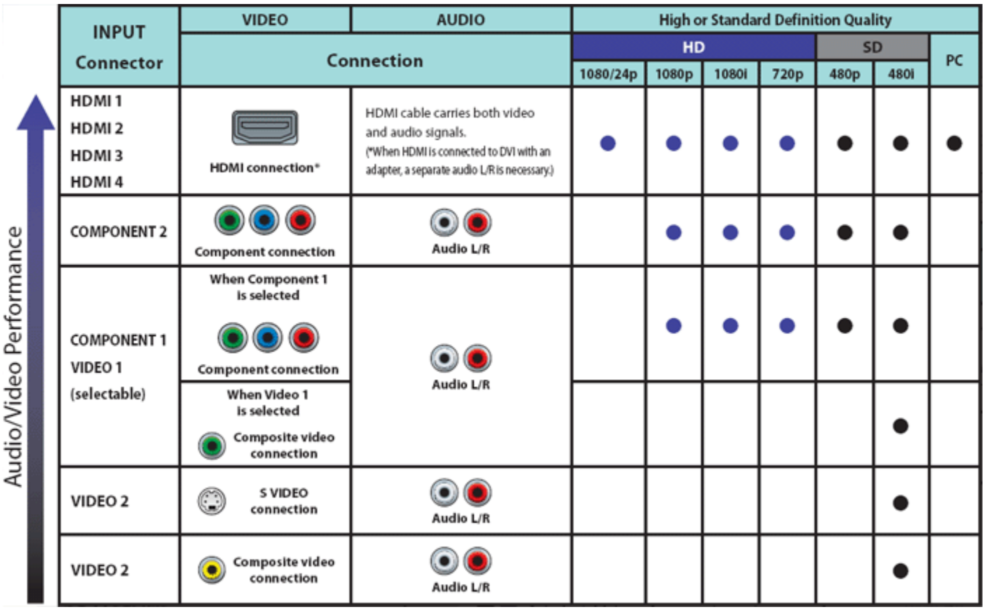
Connecting the TV

- Input Signal Reference Chart
- Cable System or / and VHF / UHF Antenna System
- HD Cable Box / HD Satellite Box
- PC
- Other Equipment

Getting Started > Connecting the TV > Input Signal Reference Chart

Input Signal Reference Chart

The following chart shows the high-definition (HD) and standard-definition (SD) video formats supported by your **BRAVIA** TV inputs.


Audio/Video Performance

INPUT Connector	VIDEO	AUDIO	High or Standard Definition Quality						
	Connection		HD				SD		PC
			1080/24p	1080p	1080i	720p	480p	480i	
HDMI 1 HDMI 2 HDMI 3 HDMI 4	HDMI connection*	HDMI cable carries both video and audio signals. (*When HDMI is connected to DVI with an adapter, a separate audio L/R is necessary.)	●	●	●	●	●	●	●
COMPONENT 2	Component connection	Audio L/R		●	●	●	●	●	
COMPONENT 1 VIDEO 1 (selectable)	When Component 1 is selected Component connection	Audio L/R		●	●	●	●	●	
	When Video 1 is selected Composite video connection							●	
VIDEO 2	S VIDEO connection	Audio L/R						●	
VIDEO 2	Composite video connection	Audio L/R						●	

* For supported PC formats see the PC Input Signal Reference Chart.

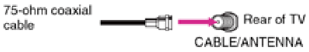
Back to Connecting the TV

Next to Cable System or 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.

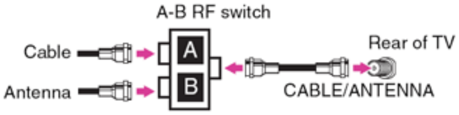
Cable or VHF/UHF (or VHF only)



- 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 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

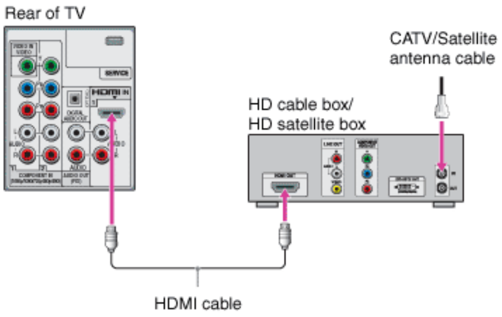
Next to HD Cable Box/HD Satellite Box

Getting Started > Connecting the TV > HD Cable Box/HD Satellite Box

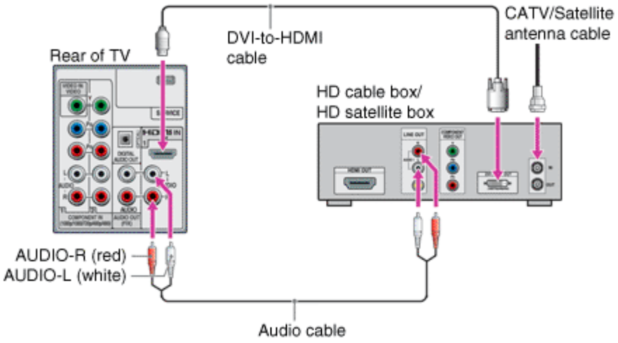
HD Cable Box / HD Satellite Box

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

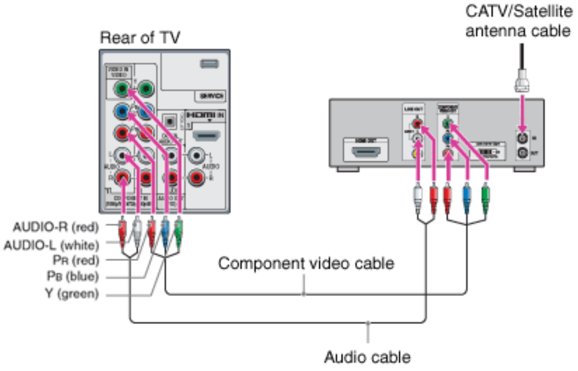

Rear of TV
CATV/Satellite antenna cable
HD cable box/ HD satellite box
HDMI cable

Shown with DVI Connection


DVI-to-HDMI cable
CATV/Satellite antenna cable
Rear of TV
HD cable box/ HD satellite box
AUDIO-R (red)
AUDIO-L (white)
Audio cable

- 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


CATV/Satellite antenna cable
Rear of TV
AUDIO-R (red)
AUDIO-L (white)
PR (red)
PB (blue)
Y (green)
Component video cable
Audio cable

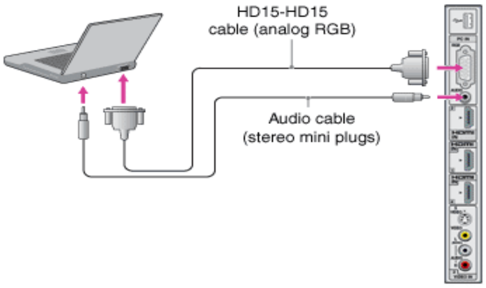
- If you are using component video input (COMPONENT 1), make sure to select **Component 1** under Channel Menu.

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.

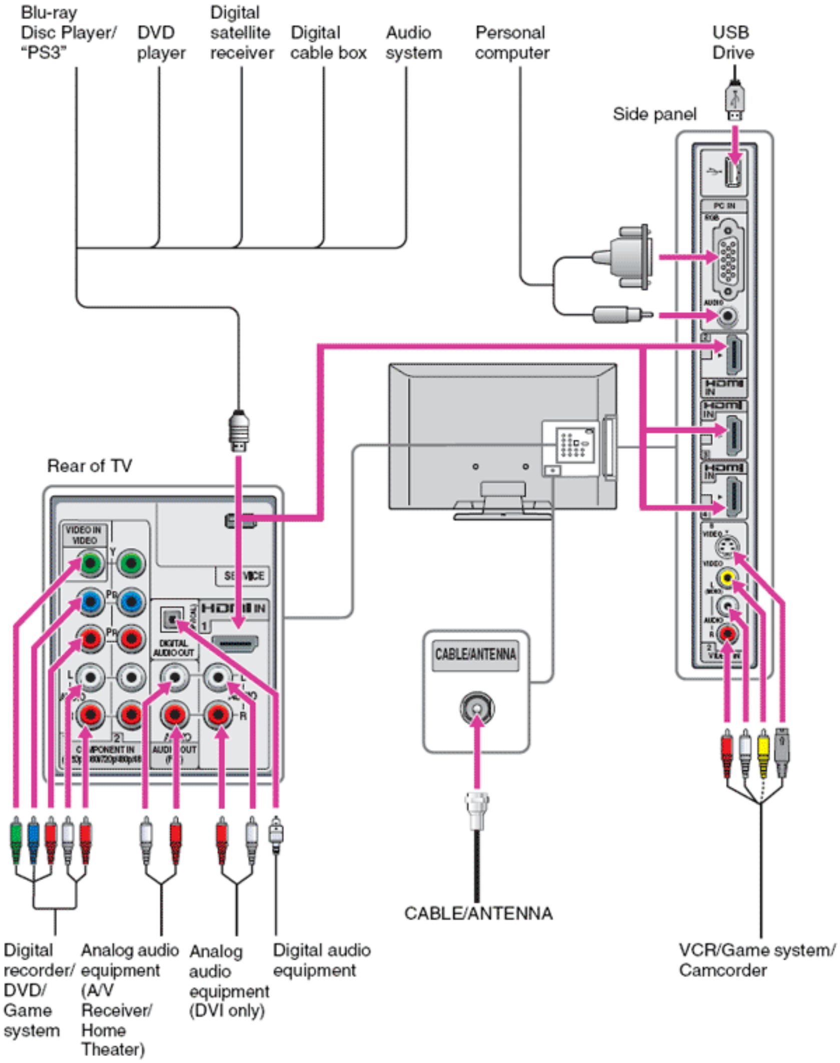
Supported Resolutions				Horizontal	Vertical	Standard
Signal	**Horizontal (Pixel)**	**x**	**Vertical (Line)**	**frequency (kHz)**	**frequency (kHz)**	
VGA	640	x	480	31.5	60	VGA
SVGA	800	x	600	37.9	60	VESA Guidelines
XGA	1,024	x	768	48.4	60	VESA Guidelines
WXGA	1,280	x	768	47.8	60	VESA
	1,360	x	768	47.7	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

Getting Started > Connecting the TV > Other Equipment

Other Equipment


Blu-ray Disc Player/ "PS3"
DVD player
Digital satellite receiver
Digital cable box
Audio system
Personal computer
USB Drive
Side panel
Rear of TV
SERVICE
HDMI IN
DIGITAL AUDIO OUT
CABLE/ANTENNA
CABLE/ANTENNA
Digital recorder/ DVD/ Game system
Analog audio equipment (A/V Receiver/ Home Theater)
Analog audio equipment (DVI only)
Digital audio equipment
VCR/Game system/ Camcorder

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

Back to PC

Next to Initial Setup

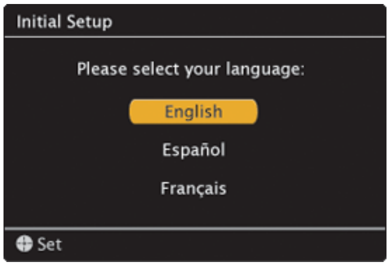
Initial Setup

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**.

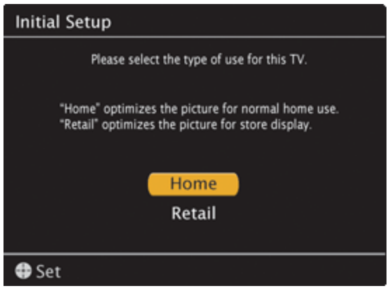


Initial Setup

Please select your language:

- 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**.



Initial Setup

Please select the type of use for this TV.

"Home" optimizes the picture for normal home use.
"Retail" optimizes the picture for store display.

- 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**.

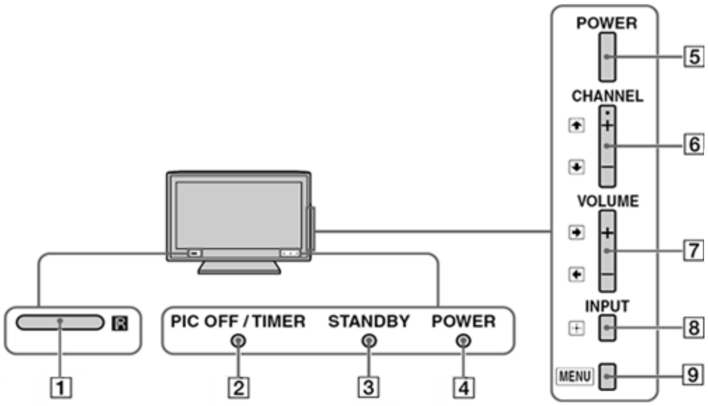
Back to Other Equipment

Next to Operating the TV

Operating the TV

- **TV Controls & Indicators**
- **The Remote Control**
- **Remote Control Button Description**

TV Controls and Indicators


POWER
5
CHANNEL
+
–
6
VOLUME
+
–
7
INPUT
8
MENU
9
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

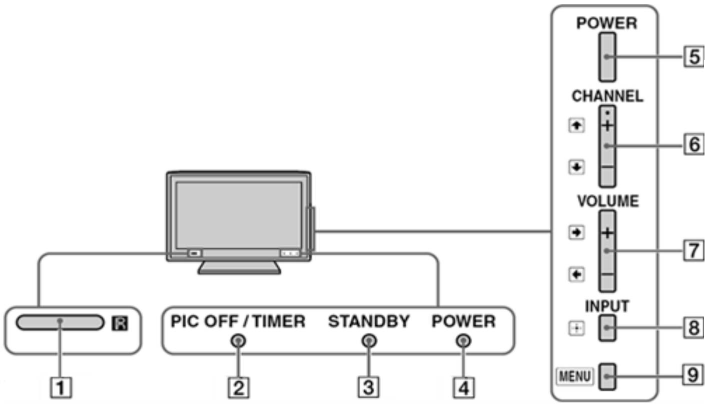
Click a number for more information.

Back to Operating the TV

Next to The Remote Control

Operating the TV > TV Controls and Indicators

TV Controls and Indicators


POWER
5
CHANNEL
6
VOLUME
7
INPUT
8
MENU
9
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

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

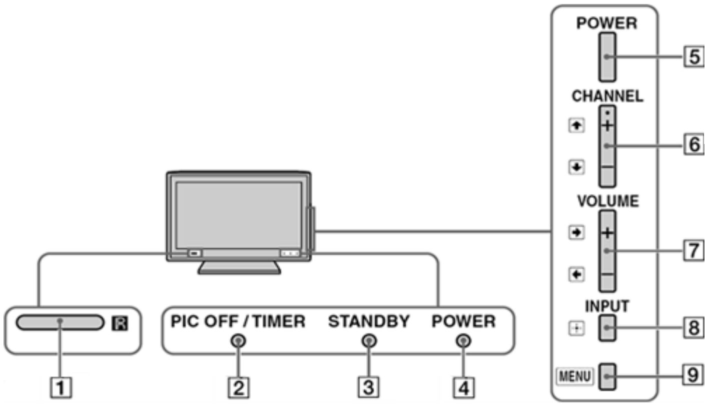
Light Sensor
Senses room light level and adjusts the screen brightness accordingly. Do not put anything near the sensor or the nearby general area (as shown in the illustration), as its function may be affected.

Back to Operating the TV

Next to The Remote Control

Operating the TV > TV Controls and Indicators

TV Controls and Indicators

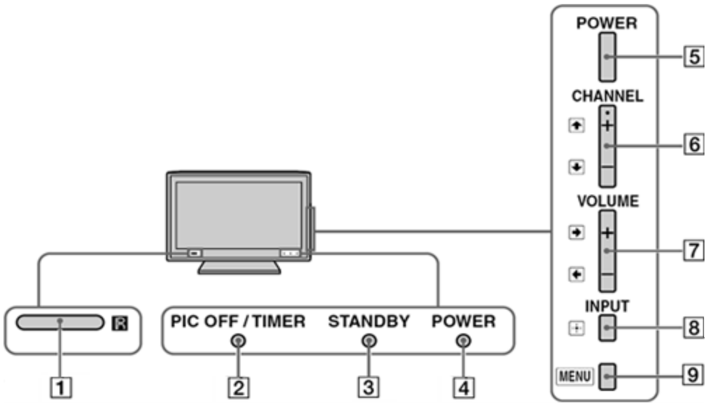

POWER
5
CHANNEL
6
VOLUME
7
INPUT
8
MENU
9
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

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 is turned off.

Back to Operating the TV

Next to The Remote Control

TV Controls and Indicators


POWER
CHANNEL
VOLUME
INPUT
MENU
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4
5
6
7
8
9

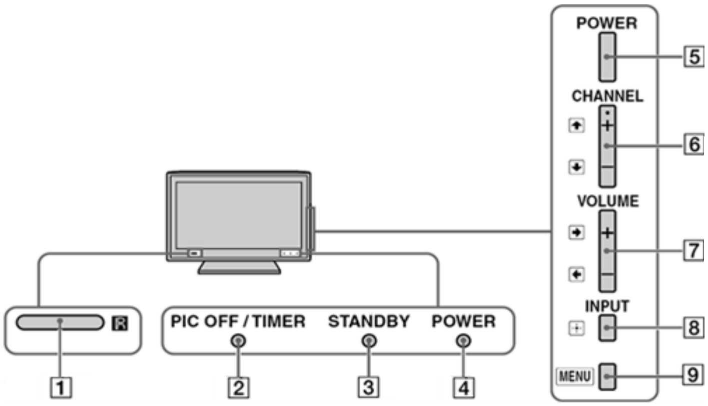
3 STANDBY LED
Lights up in red when the function **PC Power Management** is activated and there is no signal received while in the **PC** input. If the LED blinks in red continuously, this may indicate the TV needs servicing (see contacting Sony information on the front cover of the Operating Instructions).

Back to Operating the TV

Next to The Remote Control

Operating the TV > TV Controls and Indicators

TV Controls and Indicators


POWER
CHANNEL
VOLUME
INPUT
MENU
5
6
7
8
9
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

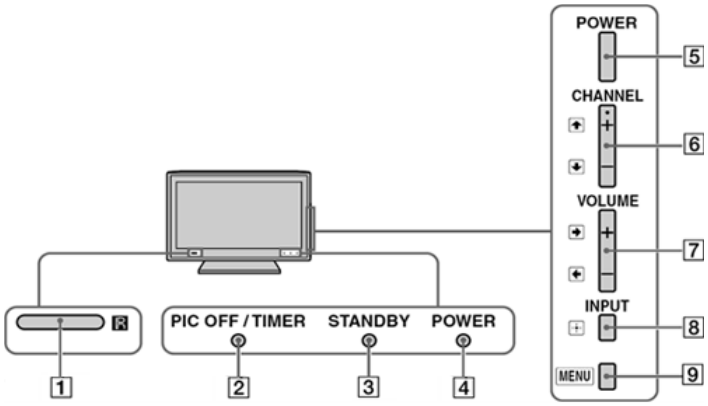
4 POWER LED
Lights up in green when the TV is turned on.

Back to Operating the TV

Next to The Remote Control

Operating the TV > TV Controls and Indicators

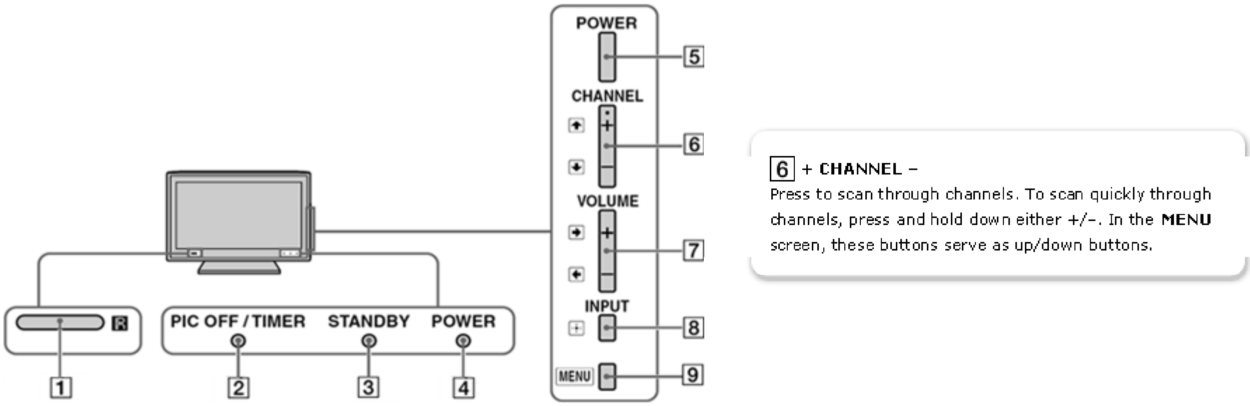
TV Controls and Indicators


POWER
CHANNEL
VOLUME
INPUT
MENU
5
6
7
8
9
R
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

5 POWER
Press to turn on and off the TV.

Back to Operating the TV
Next to The Remote Control

TV Controls and Indicators


POWER
5
CHANNEL
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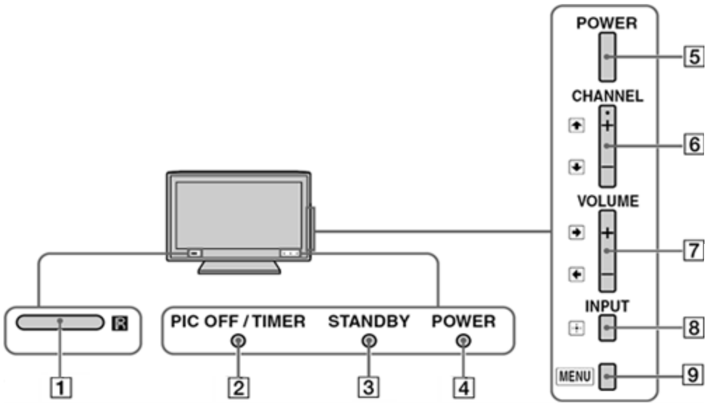
VOLUME
7
INPUT
8
MENU
9
PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

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

Next to The Remote Control

TV Controls and Indicators


POWER
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CHANNEL
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VOLUME
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INPUT
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MENU
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PIC OFF / TIMER
STANDBY
POWER
1
2
3
4

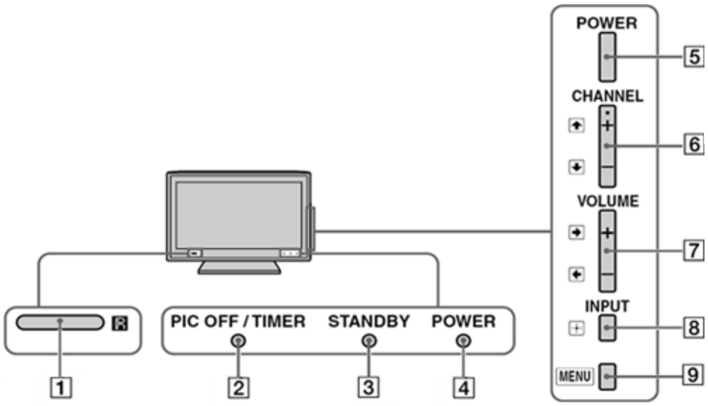
7 + VOLUME –

Press to adjust the volume. In the **MENU** screen, these buttons serve as left/right buttons.

Back to Operating the TV

Next to The Remote Control

TV Controls and Indicators


POWER
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CHANNEL
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VOLUME
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INPUT
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MENU
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PIC OFF / TIMER
STANDBY
POWER
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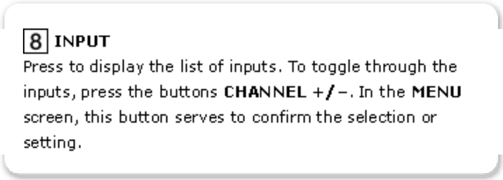


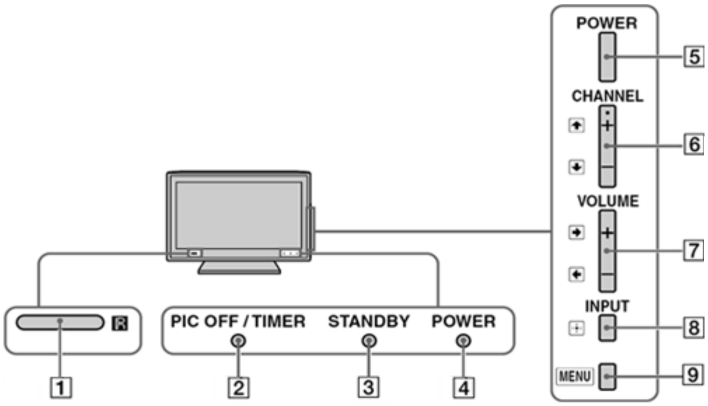
8 INPUT

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.

Back to Operating the TV

Next to The Remote Control

TV Controls and Indicators


POWER
5
CHANNEL
6
VOLUME
7
INPUT
8
MENU
9
PIC OFF / TIMER
STANDBY
POWER
1
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3
4

9 MENU
Press to display MENU with TV functions and settings.

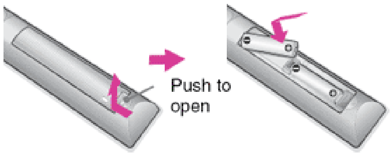
Back to Operating the TV

Next to The Remote Control

The Remote Control

Inserting Batteries into the Remote Control

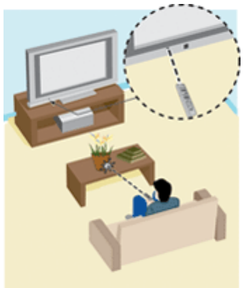
Insert two size AA batteries (supplied) by matching ⊕ and ⊖ on the batteries to the diagram inside the battery compartment of the remote control.



When Using the Remote Control

Follow the guidelines below

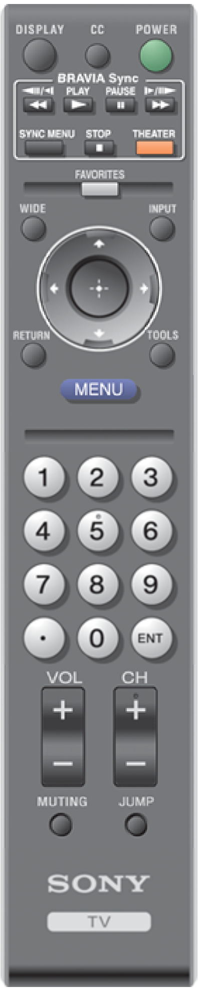
- Point your remote control directly at the IR sensor located on your TV.
- Make sure that no objects are blocking the path between the remote control and the IR sensor on your TV.
- Fluorescent lamps can interfere with your remote control; try turning off the fluorescent lamps.
- If you are having problems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


DISPLAY
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POWER
BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
MENU
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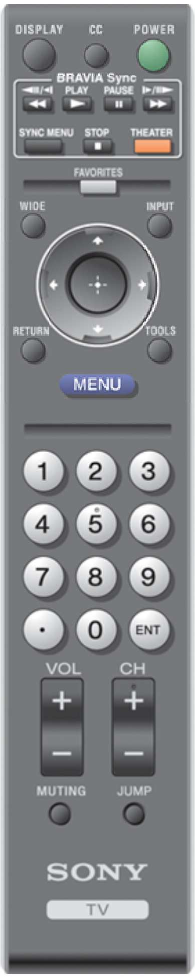
ENT
VOL
CH
+
–
MUTING
JUMP
SONY
TV

Click a button on the remote control for more information.

Back to The Remote Control Next to Using Features

Operating the TV > Remote Control Button Description

Remote Control Button Description


DISPLAY
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BRAVIA Sync
PLAY
PAUSE
SYNC MENU
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FAVORITES
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MUTING
JUMP
SONY
TV

DISPLAY

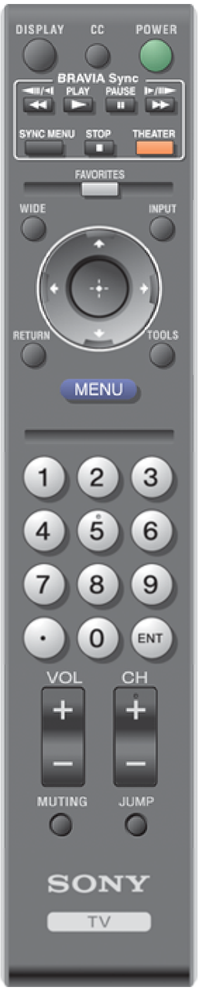
Press to display information about channel/program or input you are watching. The information banner will disappear in a few seconds or press again to exit. You can enable or disable the **Info Banner** by pressing **MENU** and go to the **Setup Menu** to set **Info Banner** to On or Off.

- 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

Remote Control Button Description


DISPLAY
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POWER
BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
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MUTING
JUMP
SONY
TV

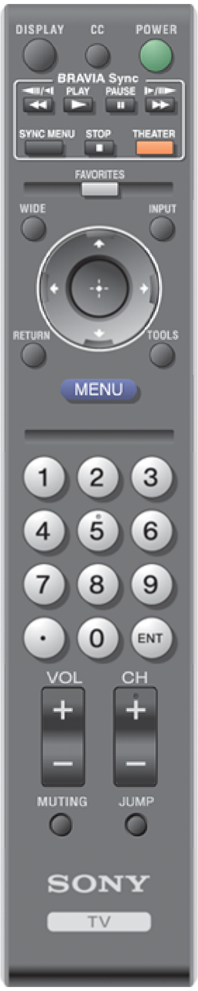
CC

Press to turn on and off the Closed Captions (CC).

Back to The Remote Control

Next to Using Features

Remote Control Button Description


DISPLAY
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BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
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TOOLS
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VOL
CH
MUTING
JUMP
SONY
TV

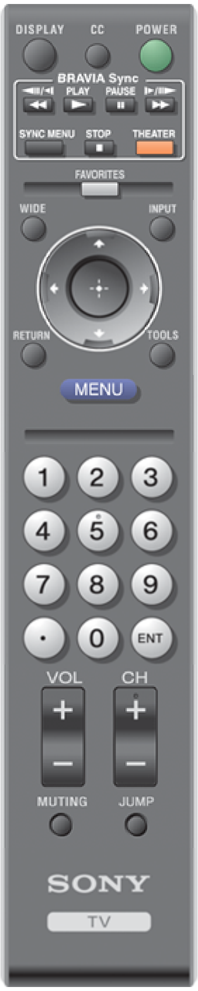
POWER

Press to turn on and off the TV.

Back to The Remote Control

Next to Using Features

Remote Control Button Description


DISPLAY
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BRAVIA Sync
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MUTING
JUMP
SONY
TV

BRAVIA Sync

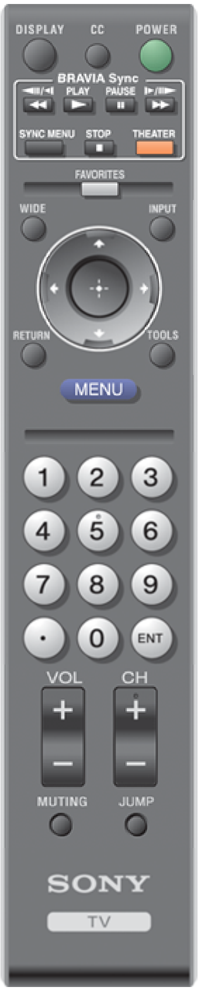
These buttons are used to control the connected equipment with **Control for HDMI** function (not available on all **Control for HDMI** equipment). Some other buttons on the remote control may also operate **BRAVIA Sync** equipment.

◀◀ **(fast reverse):** Press to play a program in fast rewind mode.
▶ **PLAY:** Press to play a program at a normal speed.
❚❚ **PAUSE:** Press to pause playback.
▶▶ **(fast forward):** Press to play a program in fast forward mode.
SYNC MENU: Displays the menu of the current selected **BRAVIA Sync** device.
■ **STOP:** Press to stop playback.
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


DISPLAY
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POWER
BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
MENU
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ENT
VOL
CH
MUTING
JUMP
SONY
TV

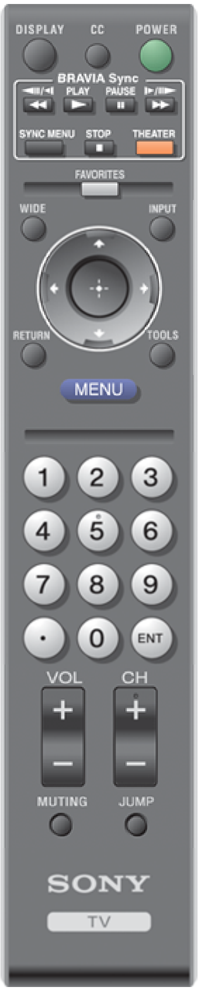
FAVORITES

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

Remote Control Button Description


DISPLAY
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POWER
BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
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TOOLS
MENU
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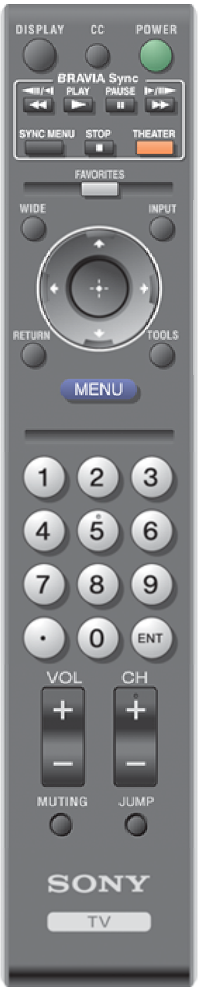
ENT
VOL
CH
MUTING
JUMP
SONY
TV

WIDE
Press repeatedly to cycle through the available Wide Mode settings.

Back to The Remote Control
Next to Using Features

Remote Control Button Description


DISPLAY
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POWER
BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
MENU
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0
ENT
VOL
CH
MUTING
JUMP
SONY
TV

INPUT

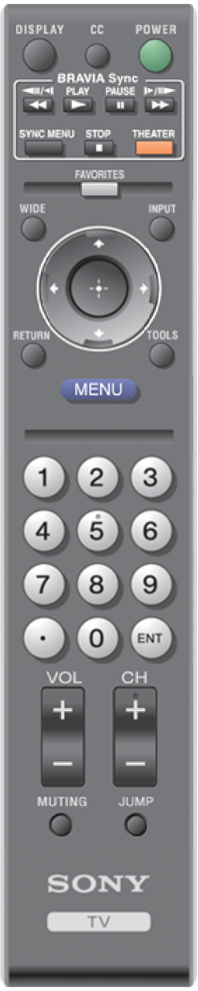
Press to display the list of External Inputs and TV mode. To toggle through the inputs, press ⬆/⬇.

Back to The Remote Control

Next to Using Features

Operating the TV > Remote Control Button Description

Remote Control Button Description


DISPLAY
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BRAVIA Sync
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PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
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TOOLS
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VOL
CH
MUTING
JUMP
SONY
TV

↑/↓/←/→/⊕

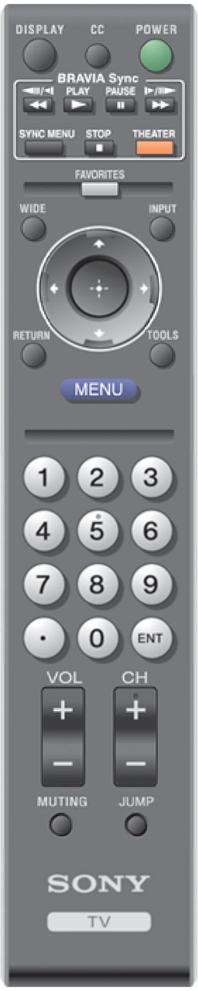
Press ↑/↓/←/→ to move focus/highlight. Press ⊕ to select/confirm an item.

Back to The Remote Control

Next to Using Features

Operating the TV > Remote Control Button Description

Remote Control Button Description


DISPLAY
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BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
MENU
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0
ENT
VOL
CH
MUTING
JUMP
SONY
TV

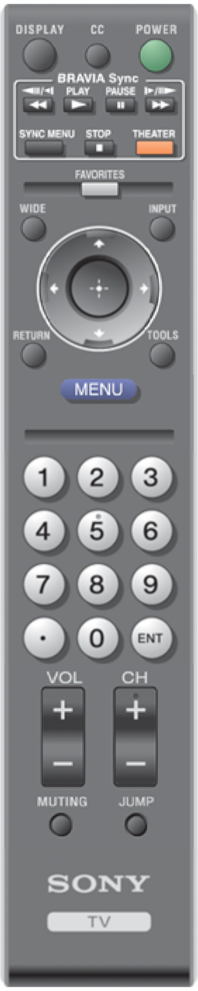
RETURN

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


DISPLAY
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SYNC MENU
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THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
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ENT
VOL
CH
MUTING
JUMP
SONY
TV

TOOLS

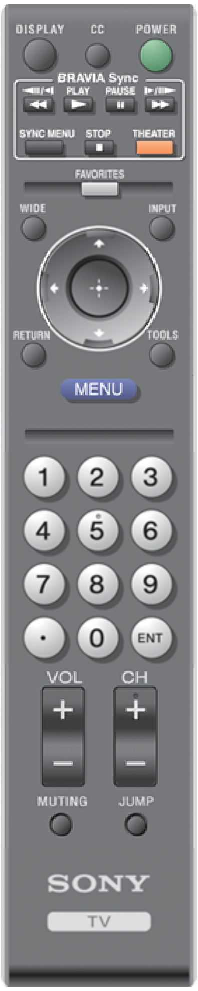
Press to display a list of convenient functions and menu shortcuts. The **TOOLS** menu items vary based on current input and content.

Back to The Remote Control

Next to Using Features

Operating the TV > Remote Control Button Description

Remote Control Button Description


DISPLAY
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FAVORITES
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0
ENT
VOL
CH
+
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+
–
MUTING
JUMP
SONY
TV

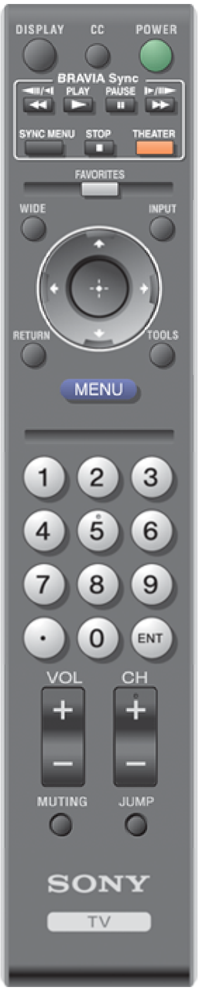
MENU

Press to display the menu with TV functions and settings.

Back to The Remote Control Next to Using Features

Operating the TV > Remote Control Button Description

Remote Control Button Description


DISPLAY
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BRAVIA Sync
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SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
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CH
+
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MUTING
JUMP
SONY
TV

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.

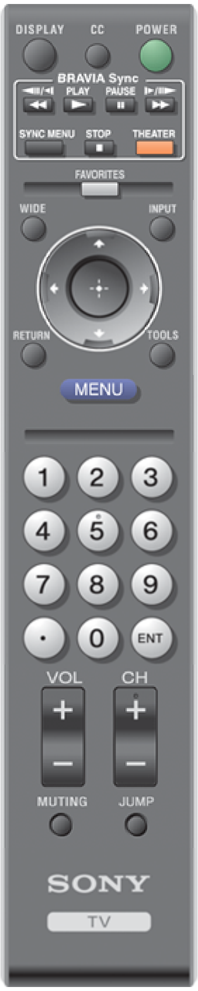
⊙

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


DISPLAY
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BRAVIA Sync
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PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
MENU
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ENT
VOL
CH
+
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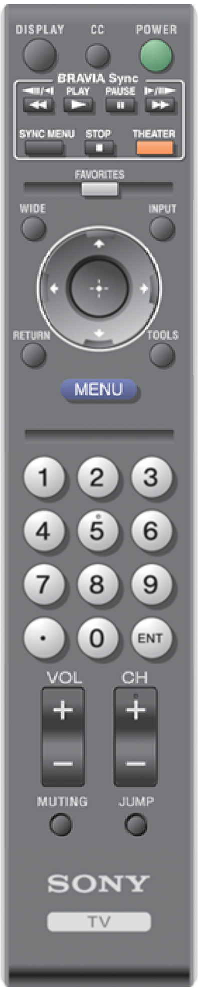
–
MUTING
JUMP
SONY
TV

VOL +/-
Press to adjust the volume.

Back to The Remote Control

Next to Using Features

Remote Control Button Description


DISPLAY
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BRAVIA Sync
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PAUSE
SYNC MENU
STOP
THEATER
FAVORITES
WIDE
INPUT
RETURN
TOOLS
MENU
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7
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0
ENT
VOL
CH
MUTING
JUMP
SONY
TV

CH +/-

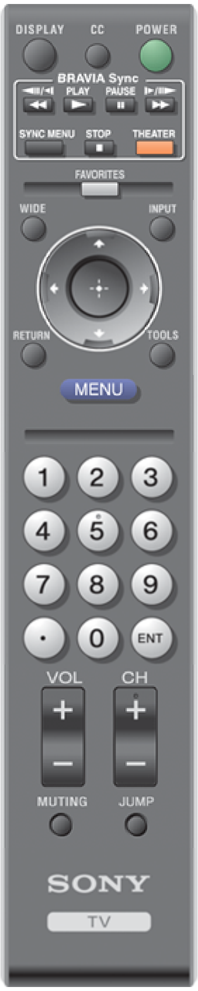
Press to scan through channels. To scan quickly through channels, press and hold down either +/-.

Back to The Remote Control

Next to Using Features

Operating the TV > Remote Control Button Description

Remote Control Button Description


DISPLAY
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VOL
CH
+
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+
–
MUTING
JUMP
SONY
TV

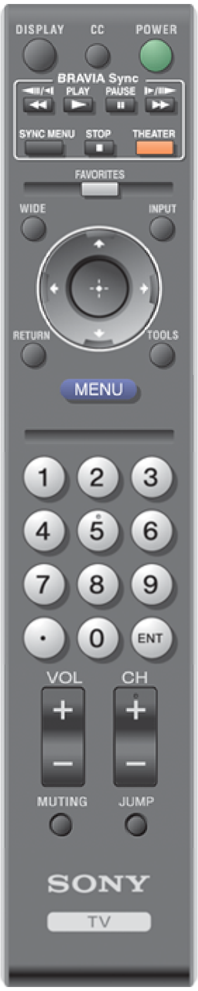
MUTING

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


DISPLAY
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BRAVIA Sync
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SYNC MENU
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THEATER
FAVORITES
WIDE
INPUT
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TOOLS
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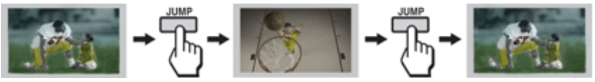
MUTING
JUMP
SONY
TV

JUMP

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



Back to The Remote Control Next to Using Features

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

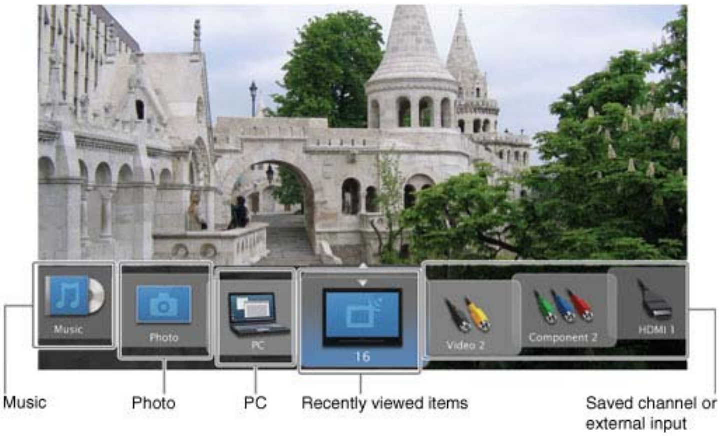
Next to Adding to Favorites

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.


Music
Photo
PC
16
Video 2
Component 2
HDMI 1
Music
Photo
PC
Recently viewed items
Saved channel or external input

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

Back to Favorites

Next to 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 ⊕.

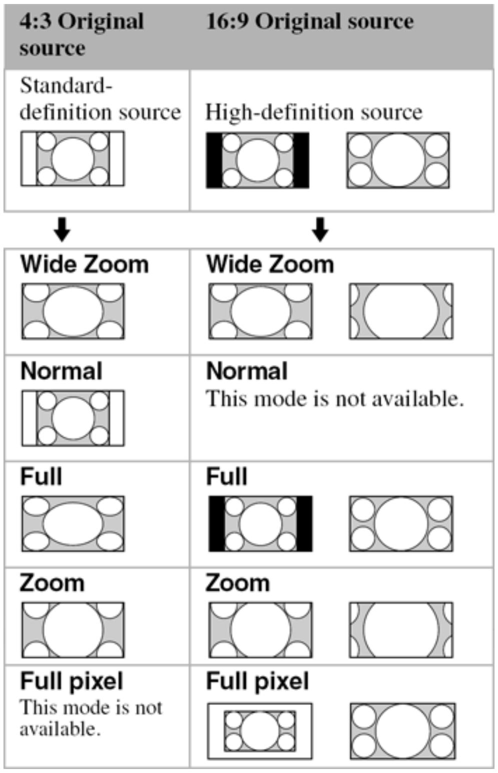
Back to Adding to Favorites

Next to Wide Mode

Exploring Fun 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.



4:3 Original source	16:9 Original source
Standard-definition source	High-definition source
Wide Zoom	Wide Zoom
Normal	Normal This mode is not available.
Full	Full
Zoom	Zoom
Full pixel This mode is not available.	Full pixel

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

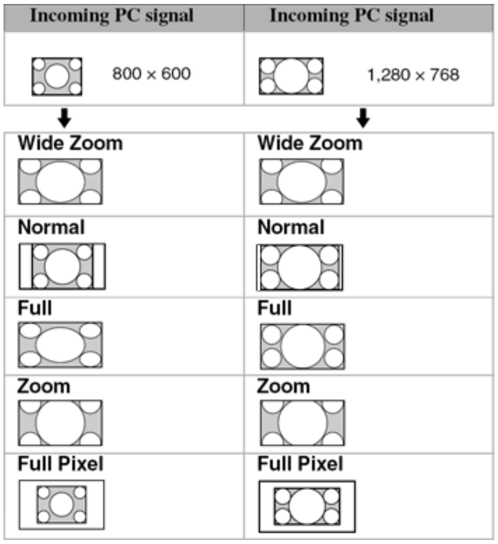
Press **WIDE** repeatedly to cycle through the available modes.

BRAVIA Sync
PLAY
PAUSE
SYNC MENU
STOP
THEATER
WIDE
INPUT
WIDE

- **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.

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 × 600	1,280 × 768
Wide Zoom	Wide Zoom
Normal	Normal
Full	Full
Zoom	Zoom
Full Pixel	Full Pixel

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

Back to Navigating Favorites

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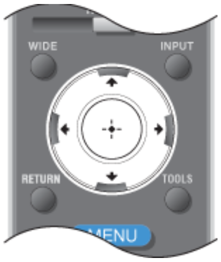
Using the Menus

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
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
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
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
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.

USB
USB Menu allows you to view Photo and listen to Music files via USB memory device or add music to a slideshow.

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 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.

- **Menu Descriptions**

Menu Descriptions

- Using the Picture Menu
- Using the Sound Menu
- Using the Screen Menu
- Using the Channel Menu
- Using the USB Menu
- Using the Parental Lock
- Using the Setup Menu

Using the Menus > Menu Descriptions > Using the Picture Menu

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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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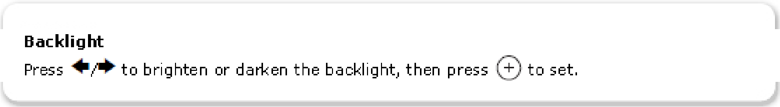
Using the Menus > Menu Descriptions > Using the Picture Menu

Using the Picture Menu


Backlight
Press ◀/▶ to brighten or darken the backlight, then press ⊕ to set.

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

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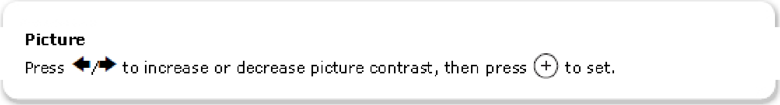

Picture

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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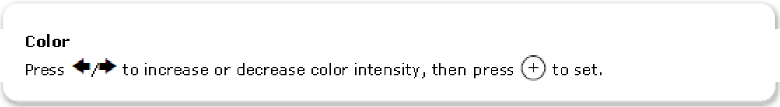

Color

Press ←/→ to increase or decrease color intensity, then press ⊕ to set.

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

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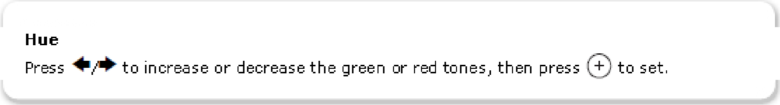

Hue

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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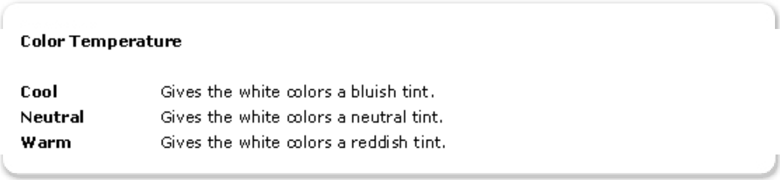

Color Temperature

Cool	Gives the white colors a bluish tint.
Neutral	Gives the white colors a neutral tint.
Warm	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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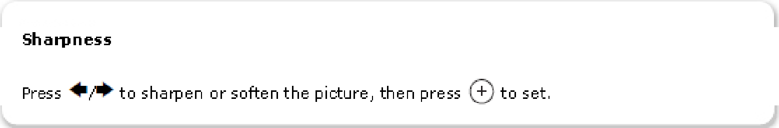

Sharpness

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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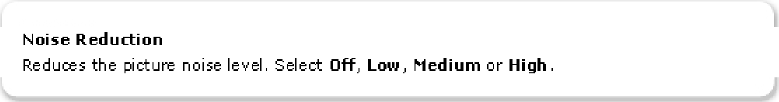

Noise Reduction

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 1 (**Auto** for model KDL-40SL150)	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.
Auto 2	Applies only the inverse 3-2 pull-down process. Picture movement will be similar to the original film. (this option is not available with model KDL-40SL150)

- 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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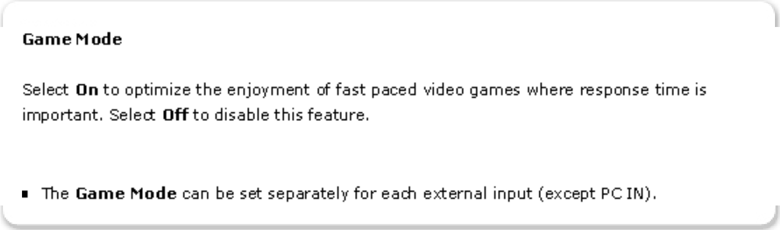

Game Mode

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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Motionflow (this option is not available with model KDL-40SL150)

Motionflow technology delivers moving images with a clarity and smoothness never seen before in LCD television. It recreates the necessary information to display scenes with a natural flow of movement and free from flickering.

Off

Use this setting whenever the **High** and **Standard** settings are displaying video devices (e.g., when there are ghost images).

Standard

Displays crisp moving images. Use this setting for standard use.

High

Displays crisper images for film-based content.

- Depending on the video being shown, you may not notice such effect.
- **Motionflow** is not available when **Game Mode** is **On**.

- 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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Available **Sound** settings depend on the **Speakers** setting.

- Sound Mode
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- Volume Offset
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- Alt. Audio / MTS

Click a link to the left for more information.

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

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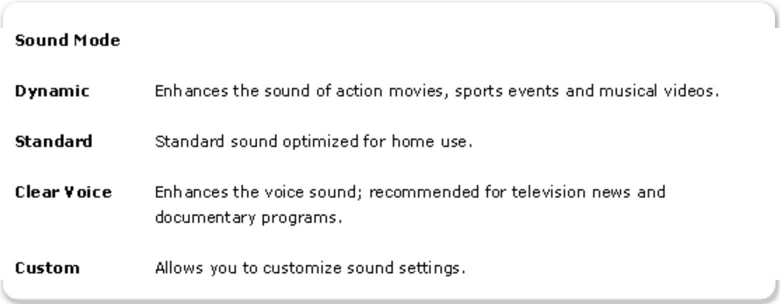

Sound Mode	
Dynamic	Enhances the sound of action movies, sports events and musical videos.
Standard	Standard sound optimized for home use.
Clear Voice	Enhances the voice sound; recommended for television news and documentary programs.
Custom	Allows you to customize sound settings.

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

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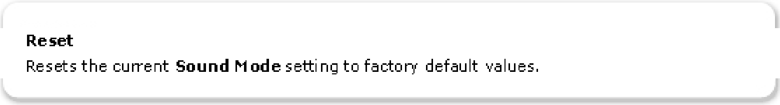

Reset

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

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

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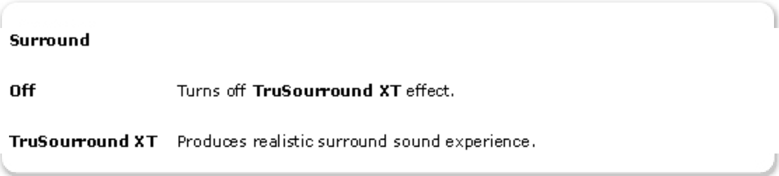

Surround	
Off	Turns off **TruSourround XT** effect.
TruSourround XT	Produces realistic surround sound experience.

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

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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** menu.

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Available **Sound** settings depend on the **Speakers** setting.

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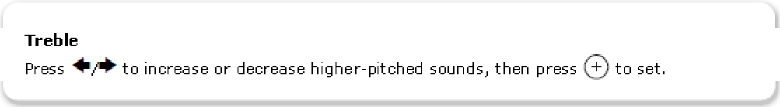

Treble

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** menu.

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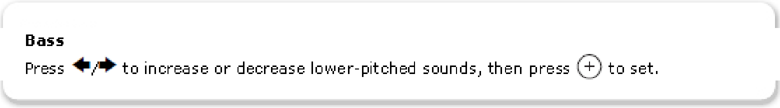
Available **Sound** settings depend on the **Speakers** setting.



Bass

Press ←/→ to increase or decrease lower-pitched sounds, then press ⊕ to set.

- Sound Mode
- Reset
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- Treble
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- Balance
- Volume Offset
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- Use **TOOLS** button on the remote control to quickly access to the **Sound** menu.

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Available **Sound** settings depend on the **Speakers** setting.

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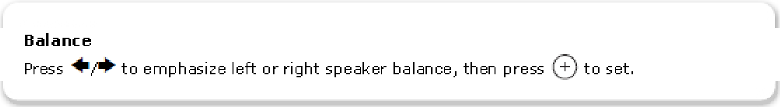

Balance

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

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

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Available **Sound** settings depend on the **Speakers** setting.

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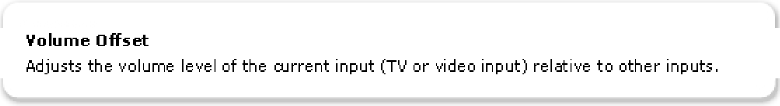

Volume Offset

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** menu.

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Available **Sound** settings depend on the **Speakers** setting.

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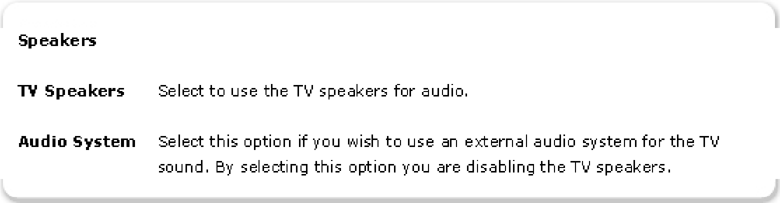
- Reset
- Surround
- Steady Sound
- Treble
- Bass
- Balance
- Volume Offset
- Speakers
- Alt. Audio/MTS



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** menu.

Back to Using the Picture Menu Next to Using the Screen Menu

Using the Menus > Menu Descriptions > Using the Sound Menu

Using the Sound Menu

Available **Sound** settings depend on the **Speakers** setting.

- Sound Mode
- Reset
- Surround
- Steady Sound
- Treble
- Bass
- Balance
- Volume Offset
- Speakers
- Alt. Audio / MTS

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** menu.

Back to Using the Picture Menu

Next to Using the Screen Menu

Screen Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)

Click a link to the left for more information.

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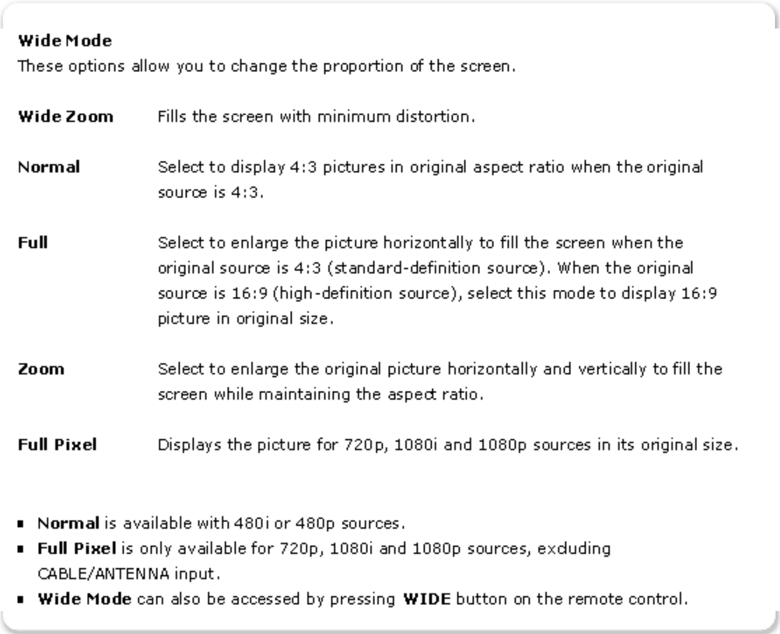
Next to Using the Channel Menu

Using the Menus > Menu Descriptions > Using the Screen Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)



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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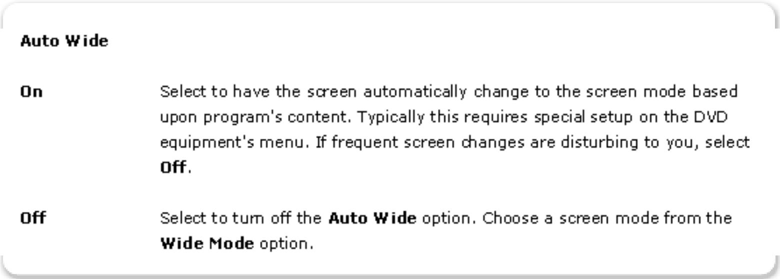
Next to Using the Channel Menu

Using the Menus > Menu Descriptions > Using the Screen Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)



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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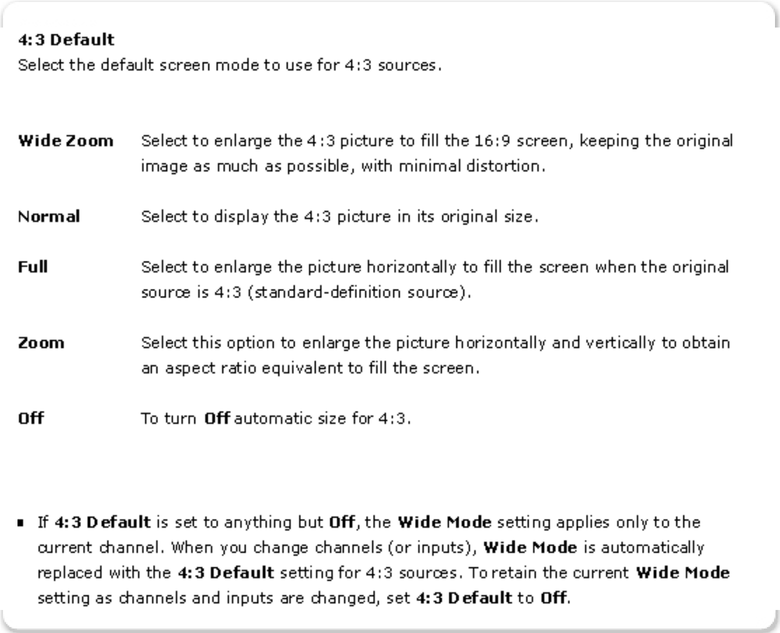
Next to Using the Channel Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)



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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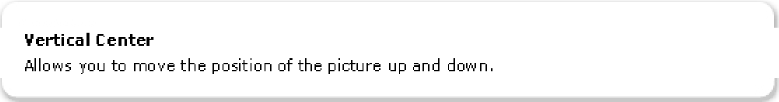
Using the Menus > Menu Descriptions > Using the Screen Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)



Vertical Center

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

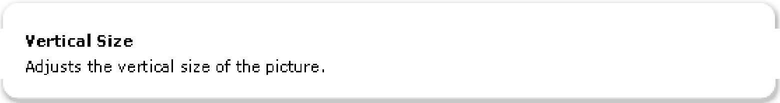
Back to Using the Sound Menu

Next to Using the Channel Menu

Using the Menus > Menu Descriptions > Using the Screen Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)



Vertical Size
Adjusts the vertical size of the picture.

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Next to Using the Channel Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)

Horizontal Size

Adjusts the horizontal size of the picture.

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Next to Using the Channel Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
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- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)

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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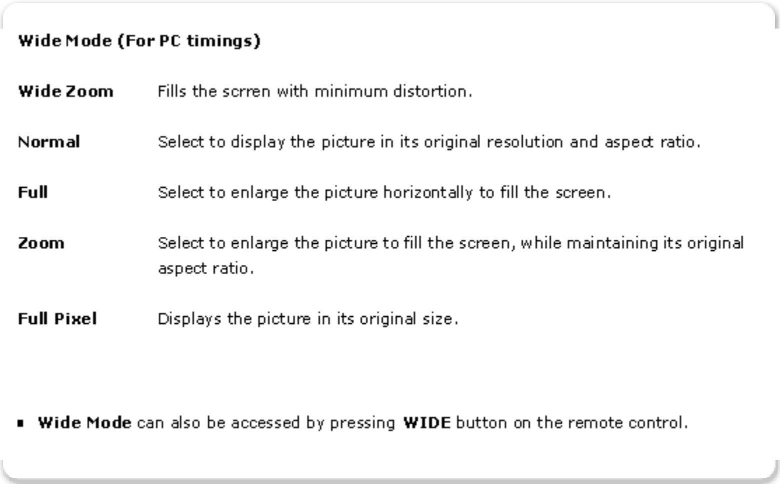
Next to Using the Channel Menu

Using the Menus > Menu Descriptions > Using the Screen Menu

Using the Screen Menu

- Wide Mode
- Auto Wide
- 4:3 Default
- Vertical Center
- Vertical Size
- Horizontal Size
- Phase
- Wide Mode (For PC timings)



Wide Mode (For PC timings)

Wide Zoom	Fills the scrren with minimum distortion.
Normal	Select to display the picture in its original resolution and aspect ratio.
Full	Select to enlarge the picture horizontally to fill the screen.
Zoom	Select to enlarge the picture to fill the screen, while maintaining its original aspect ratio.
Full Pixel	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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Next to Using the Channel Menu

Using the Channel Menu

- Cable/Antenna
- Add Digital Channels
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- Device List
- Device Auto Power off
- TV Auto Power On
- Signal Diagnostics

Click a link to the left for more information.

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Using the Channel Menu

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- Device Auto Power off
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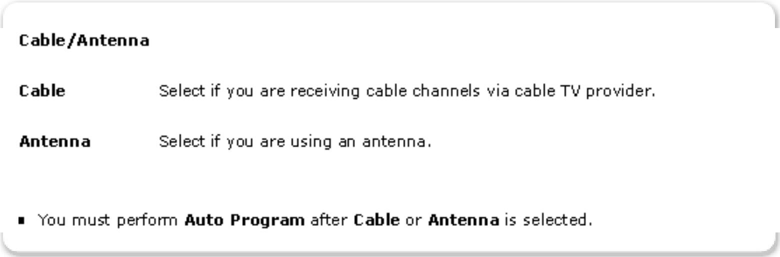
- Signal Diagnostics



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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Using the Menus > Menu Descriptions >Using the Channel Menu

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- Device List
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- Signal Diagnostics

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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Using the Channel Menu

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- Signal Diagnostics

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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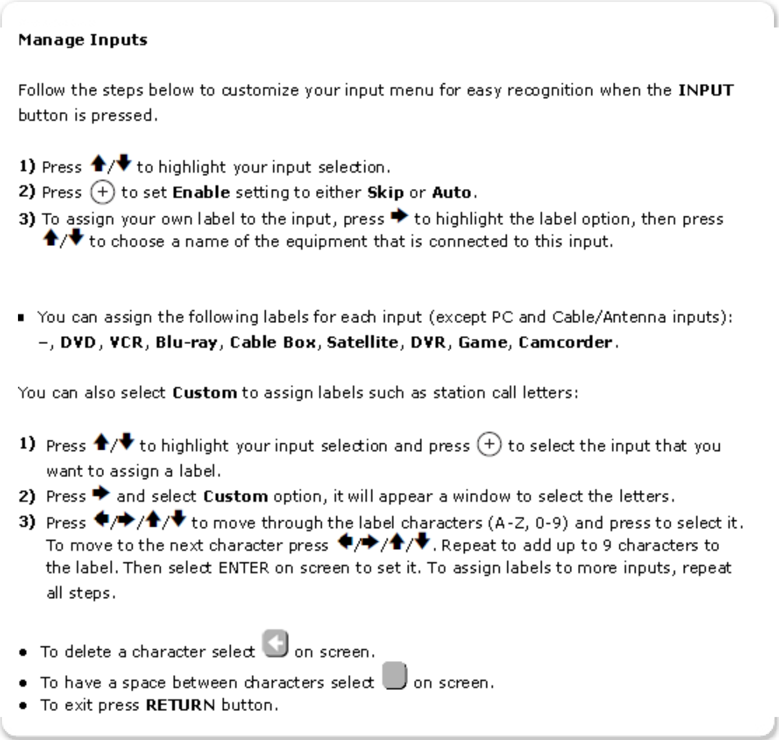

Manage Inputs

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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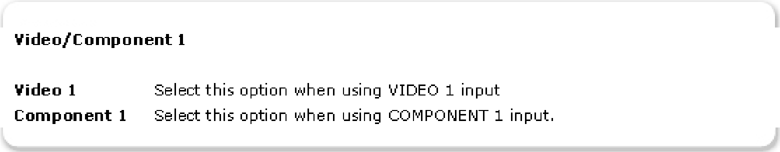

Video/Component 1

Video 1	Select this option when using VIDEO 1 input
Component 1	Select this option when using COMPONENT 1 input.

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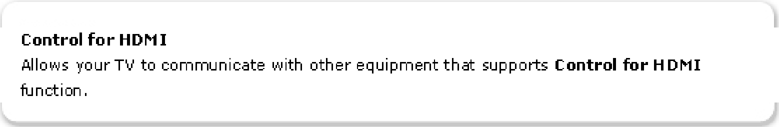

Control for HDMI
Allows your TV to communicate with other equipment that supports **Control for HDMI** function.

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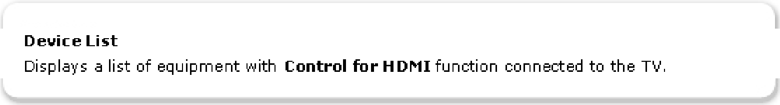
- Device List
- Device Auto Power off
- TV Auto Power On
- Signal Diagnostics



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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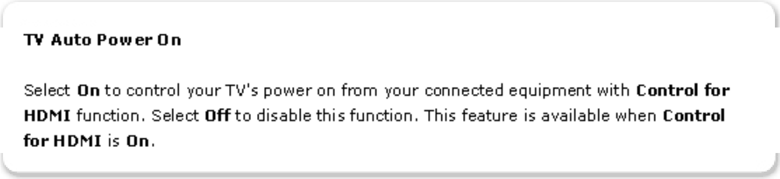

TV Auto Power On

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 USB Menu

Photo and Music

Enjoying Photos through the USB Port

The TV offers easy access to JPEG photos stored on a USB connected memory device.

Connecting USB Equipment

The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen.

USB Equipment Functionality

Sony cannot guarantee or assure the USB functionality on this TV in the following cases:

- Use of audio clips processed on a computer
- Use of files obtained from the Internet or from a printed file processing center.
  Sony recommends backing up all data stored on USB memory device to avoid potential data corruption.

Sony cannot accept responsibility for lost or damaged data recorded on USB equipment. The USB functionality on this TV is designed to be compatible with mass storage devices. Sony cannot guarantee or assure compatibility with all formats or products.

- Thumbnail View
- Sort by
- Playback Method
- Slideshow Speed
- Sample Pictures and Music
- Accessing Photos
- Accessing Music

Click a link to the left for more information.

Back to Using the Channel Menu

Next to Using the Parental Lock

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Using the USB Menu

Photo and Music

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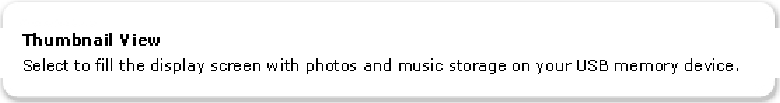

Thumbnail View

Select to fill the display screen with photos and music storage on your USB memory device.

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Photo and Music

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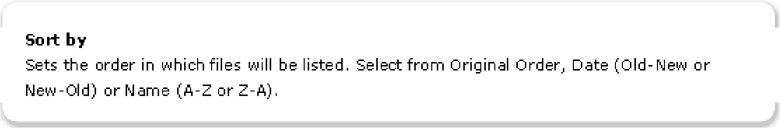
- **Thumbnail View**
- **Sort by**
- **Playback Method**
- **Slideshow Speed**
- **Sample Pictures and Music**
- **Accessing Photos**
- **Accessing Music**



Sort by

Sets the order in which files will be listed. Select from Original Order, Date (Old-New or New-Old) or Name (A-Z or Z-A).

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Using the USB Menu

Photo and Music

Enjoying Photos through the USB Port

The TV offers easy access to JPEG photos stored on a USB connected memory device.

Connecting USB Equipment

The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen.

USB Equipment Functionality

Sony cannot guarantee or assure the USB functionality on this TV in the following cases:

- Use of audio clips processed on a computer
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- Thumbnail View
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- Playback Method
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- Sample Pictures and Music
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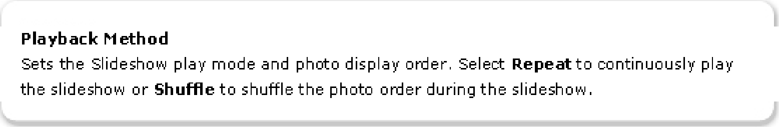

Playback Method
Sets the Slideshow play mode and photo display order. Select **Repeat** to continuously play the slideshow or **Shuffle** to shuffle the photo order during the slideshow.

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Using the USB Menu

Photo and Music

Enjoying Photos through the USB Port

The TV offers easy access to JPEG photos stored on a USB connected memory device.

Connecting USB Equipment

The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen.

USB Equipment Functionality

Sony cannot guarantee or assure the USB functionality on this TV in the following cases:

- Use of audio clips processed on a computer
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- Thumbnail View
- Sort by
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- Sample Pictures and Music
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- Accessing Music

Slideshow Speed
Select from **Slow**, **Medium** or **Fast** to set the photo display duration.

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Photo and Music

Enjoying Photos through the USB Port

The TV offers easy access to JPEG photos stored on a USB connected memory device.

Connecting USB Equipment

The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen.

USB Equipment Functionality

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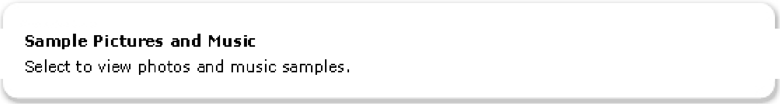
Sample Pictures and Music
Select to view photos and music samples.

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Photo and Music

Enjoying Photos through the USB Port

The TV offers easy access to JPEG photos stored on a USB connected memory device.

Connecting USB Equipment

The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen.

USB Equipment Functionality

Sony cannot guarantee or assure the USB functionality on this TV in the following cases:

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- Thumbnail View
- Sort by
- Playback Method
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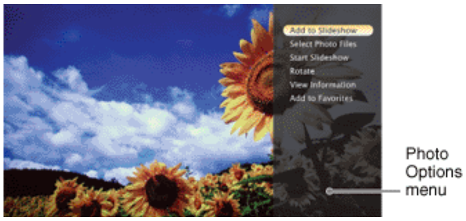
- Sample Pictures and Music
- Accessing Photos
- Accessing Music

Accessing Photos

Insert your USB memory device to display your picture files on screen. Press **TOOLS** while displaying the picture and choose your desired photo viewing preferences. The photo display resolution range is 16 × 16 to 8,192 × 8,192 pixels.



Option	*Description*
TOOLS	To access Photo Options menu
Add to Slideshow	To include picture on Slideshow
Select Photo Files	To select photo files
Start Slideshow	To start slideshow
Rotate	To rotate the picture
View Information	Display picture information
Add or Remove from Favorites	To add or remove current picture from **Favorites** list

- You can add more photos to the Slideshow by selecting **Select all in this page on TOOLS** options.
- **Rotate** is temporary; the changes you made will not be saved on your USB memory device.
- Media cannot be saved in the TV but can be added to **FAVORITES** and accessed when the device containing media is connected.
- When removing USB memory device, be sure to exit the photo menu to prevent data corruption.

Using the USB Menu

Photo and Music

Enjoying Photos through the USB Port

The TV offers easy access to JPEG photos stored on a USB connected memory device.

Connecting USB Equipment

The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen.

USB Equipment Functionality

Sony cannot guarantee or assure the USB functionality on this TV in the following cases:

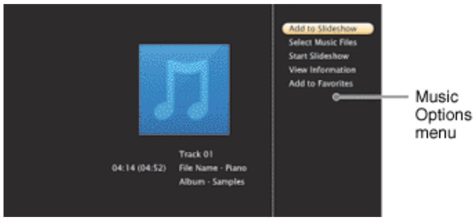
- Use of audio clips processed on a computer
- Use of files obtained from the Internet or from a printed file processing center.
  Sony recommends backing up all data stored on USB memory device to avoid potential data corruption.

Sony cannot accept responsibility for lost or damaged data recorded on USB equipment. The USB functionality on this TV is designed to be compatible with mass storage devices. Sony cannot guarantee or assure compatibility with all formats or products.

- Thumbnail View
- Sort by
- Playback Method
- Slideshow Speed
- Sample Pictures and Music
- Accessing Photos
- Accessing Music

Accessing Music

Insert your USB memory device to listen your music. Press **TOOLS** when your music files are on screen and select your desired option to listen your music.



Option	*Description*
Add to Slideshow	Register music to play with slideshows
Select Music Files	To select music files
View Information	Display music information
Add or Remove from Favorites	To add or remove current song from **Favorites** list

Navigating Music Control Panel

Use ↑/↓/←/→ from the remote control to navigate music during play.

- The **TOOLS** Menu selections may vary.

Back to Using the Channel Menu

Next to Using the Parental Lock

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**

Click a link to the left for more information.

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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Back to Using the USB Menu

Next to Using the Setup Menu

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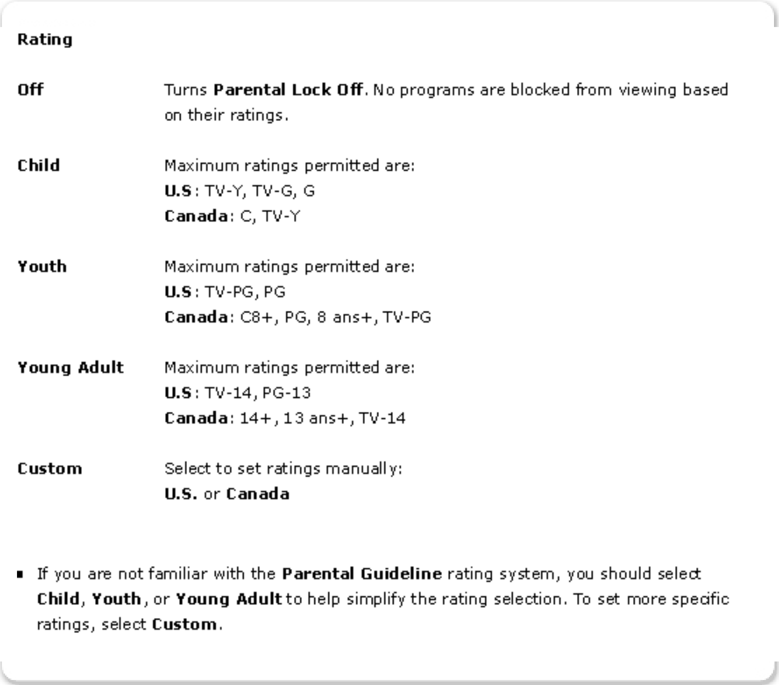

Rating

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

- 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
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Next to Using the Setup Menu

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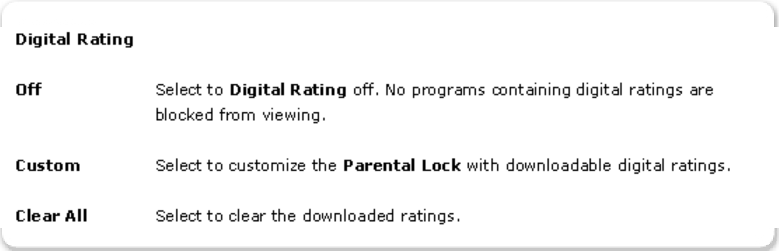

Digital Rating

Off	Select to **Digital Rating** off. No programs containing digital ratings are blocked from viewing.
Custom	Select to customize the **Parental Lock** with downloadable digital ratings.
Clear All	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
- French Rating
- U.S.A. Rating

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Back to Using the USB Menu

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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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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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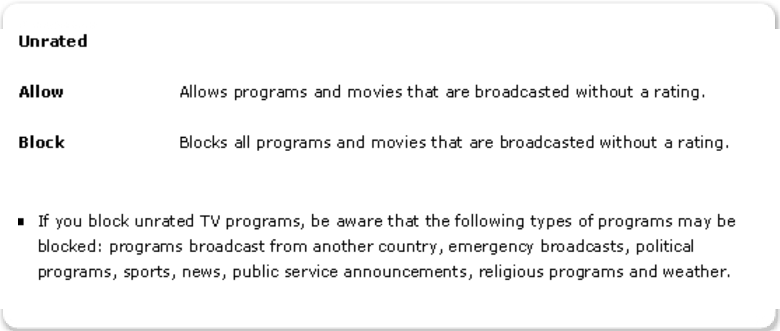

Unrated

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
- French Rating
- U.S.A. Rating

Click a link to the left for more information.

Back to Using the USB Menu

Next to Using the Setup Menu

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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

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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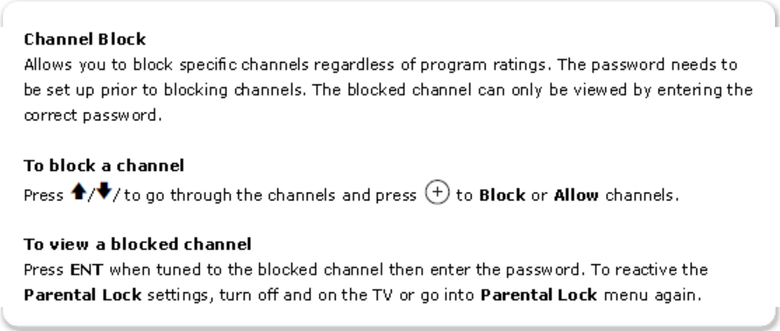
- External Input Block
- Change Password
- Select Country



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 reactive 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**:

- English Rating
- French Rating
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Click a link to the left for more information.

Back to Using the USB Menu

Next to Using the Setup Menu

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.**)*
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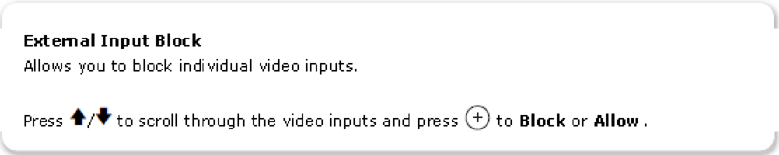

External Input Block
Allows you to block individual video inputs.

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)*

Click a link to the left for more information.

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

- English Rating
- French Rating
- U.S.A. Rating

Back to Using the USB Menu

Next to Using the Setup Menu

Lock

Using the Parental Lock

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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
- External Input Block
- Change Password
- Select Country

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)*

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- English Rating
- French Rating
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Click a link to the left for more information.

Back to Using the USB Menu Next to Using the Setup Menu

Using the Menus > Menu Descriptions > Using the Parental Lock

Using the Parental Lock

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- Channel Block
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- 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
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Back to Using the USB Menu Next to Using the Setup Menu

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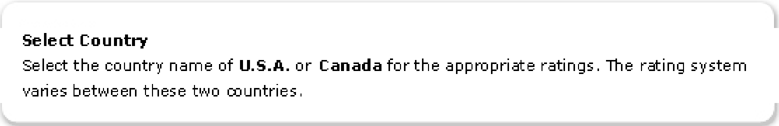

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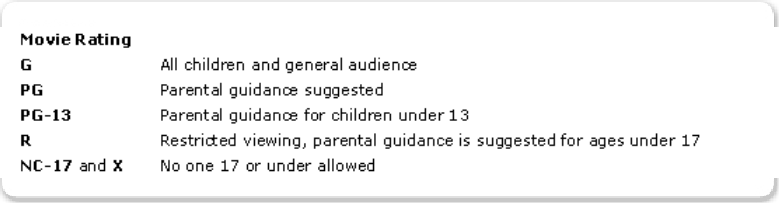

Movie Rating

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

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

- English Rating
- French Rating
- U.S.A. Rating

Back to Using the USB Menu

Next to Using the Setup Menu

Lock

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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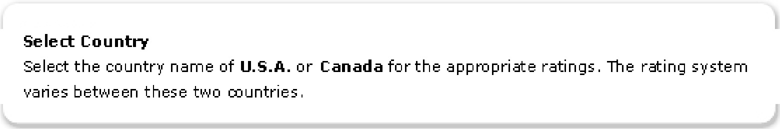

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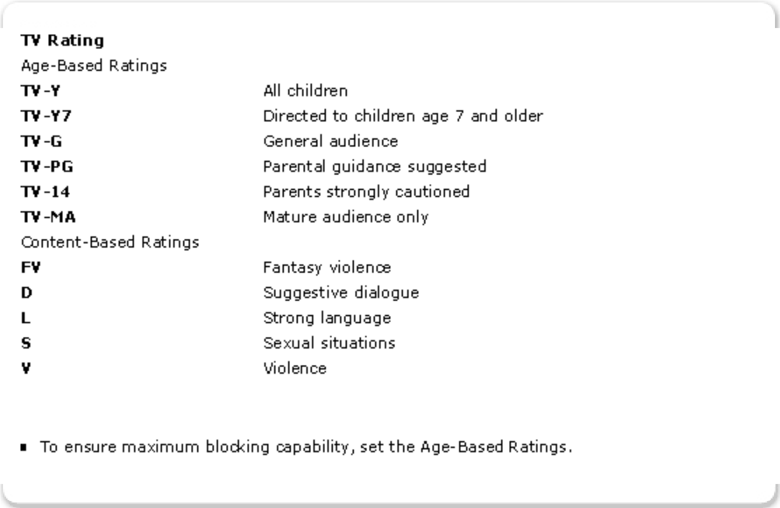

TV Rating

Age-Based Ratings	
TV-Y	All children
TV-Y7	Directed to children age 7 and older
TV-G	General audience
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audience only
Content-Based Ratings	
FV	Fantasy violence
D	Suggestive dialogue
L	Strong language
S	Sexual situations
V	Violence

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

Back to Using the USB Menu

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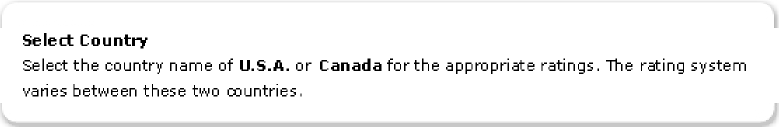

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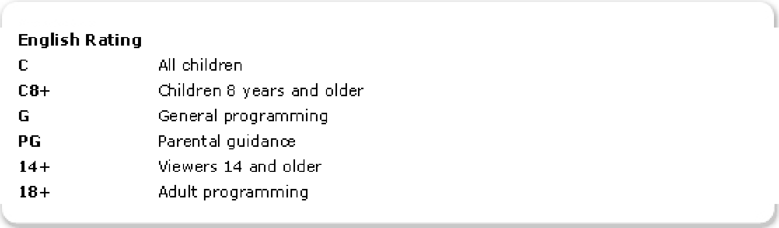

English Rating

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

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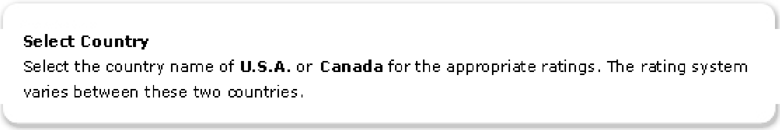

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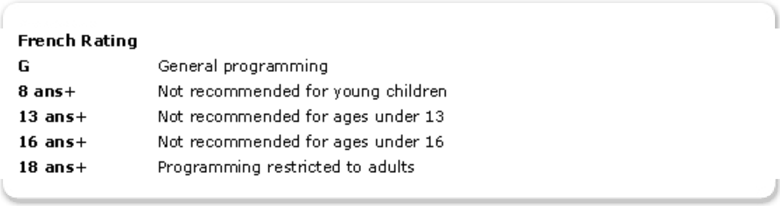

French Rating

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

Back to Using the USB Menu

Next to Using the Setup Menu

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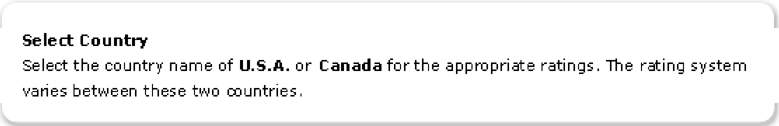

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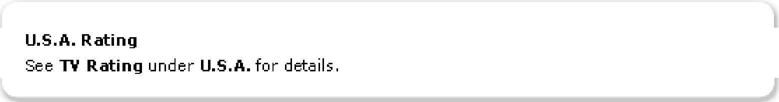

U.S.A. Rating
See **TV Rating** under **U.S.A.** for details.

Back to Using the USB Menu

Next to Using the Setup Menu

Using the Setup Menu

- Closed Captions (CC)
- Info Banner
- Clock/Timers: Sleep
- Clock/Timers: Current Time
- Clock/Timers: Timer
- Language
- Eco: Backlight
- Eco: PC Power Management
- Eco: Light Sensor
- Picture Adjustments Lock
- Product Support

Click a link to the left for more information.

Back to Using the Parental Lock

Next to Other Information

Using the Menus > Menu Descriptions > Using the Setup Menu

Using the Setup Menu

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- Eco: PC Power Management
- Eco: Light Sensor
- Picture Adjustments Lock
- Product Support

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**.

Back to Using the Parental Lock

Next to Other Information

Using the Setup Menu

- **Closed Captions (CC)**
- **Info Banner**
- **Clock/Timers: Sleep**
- **Clock/Timers: Current Time**
- **Clock/Timers: Timer**
- **Language**
- **Eco: Backlight**
- **Eco: PC Power Management**
- **Eco: Light Sensor**
- **Picture Adjustments Lock**
- **Product Support**

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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Using the Menus > Menu Descriptions > Using the Setup Menu

Using the Setup Menu

- Closed Captions (CC)
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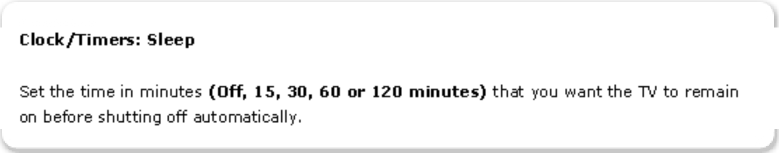
- Language
- Eco: Backlight
- Eco: PC Power Management
- Eco: Light Sensor
- Picture Adjustments Lock
- Product Support



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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Using the Menus > Menu Descriptions > Using the Setup Menu

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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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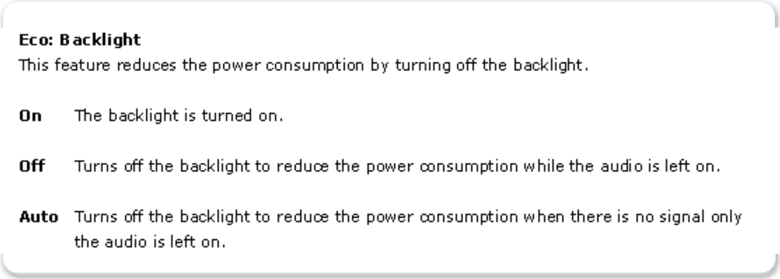

Eco: Backlight
This feature reduces the power consumption by turning off the backlight.

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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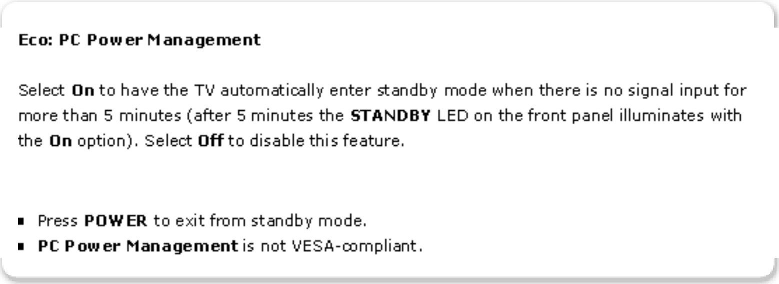

Eco: PC Power Management

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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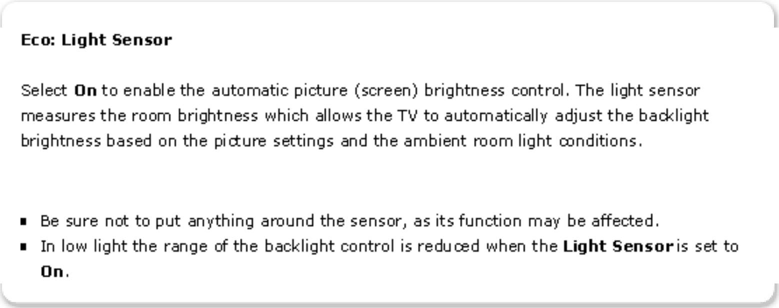

Eco: Light Sensor

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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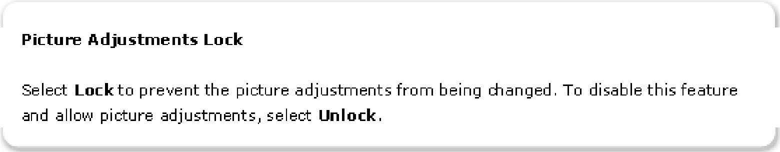

Picture Adjustments Lock

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

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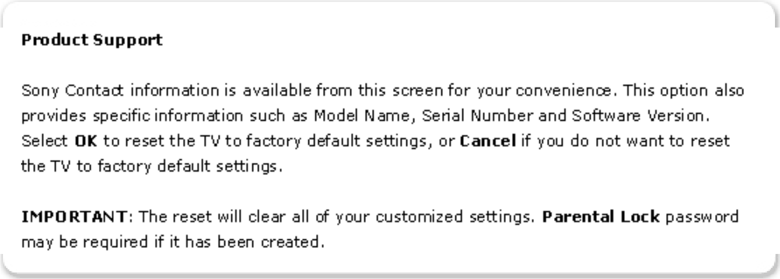

Product Support

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.

IMPORTANT: 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

Troubleshooting

- No Picture
- Poor Picture
- No Sound / Noisy Sound
- PC Input
- BRAVIA Sync
- General

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

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

No picture

- 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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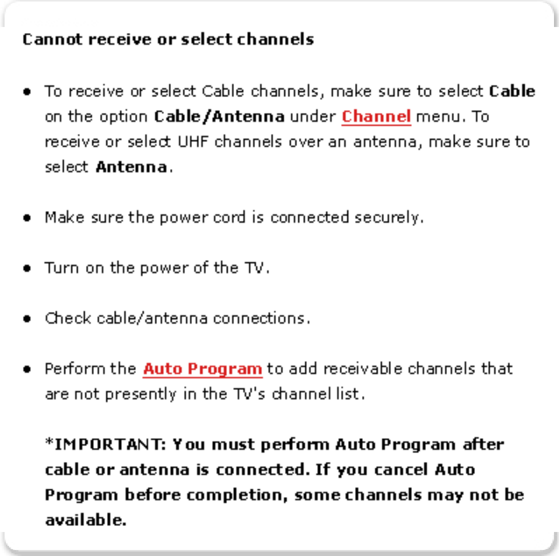
- The TV turns off automatically
- No picture from some video sources



Cannot receive or select channels

- 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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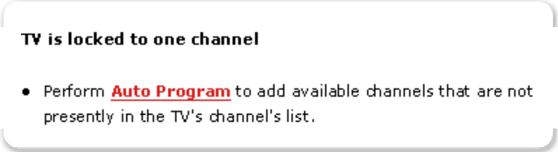
Troubleshooting - No Picture

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



TV is locked to one channel

- Perform **Auto Program** to add available channels that are not presently in the TV's channel list.

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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

The TV turns off automatically

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

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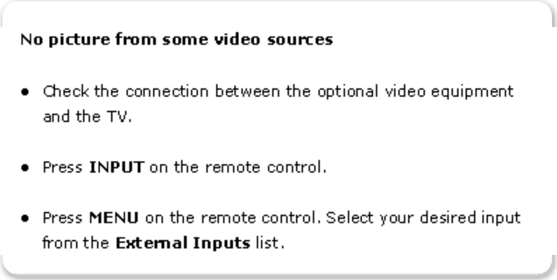
Other Information > Troubleshooting - No Picture

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



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**
- **Blurry picture / Poor color**

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

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Troubleshooting - Poor picture

- Double images or ghosts
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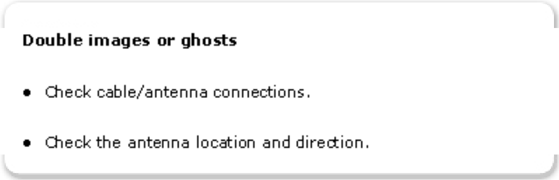
- Blurry picture / Poor color



Double images or ghosts

- Check cable/antenna connections.
- Check the antenna location and direction.

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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
- Blurry picture / Poor color

Only snow and noise appear on the screen

- Check if the antenna is broken or bent.
- Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.)

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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
- Blurry picture / Poor color

Dotted lines or stripes

- 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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- Blurry picture / Poor color

No color / Dark picture / Color is not correct / The picture is too bright

- Adjust the **Picture Mode** settings in the Picture menu.

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Troubleshooting - Poor picture

- Double images or ghosts
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- No color / Dark picture / Color is not correct / The picture is too bright
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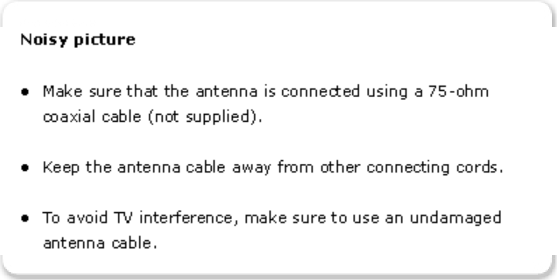

Noisy picture

- 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

- 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
- Blurry picture / Poor color

Blurry picture / Poor color

- 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

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

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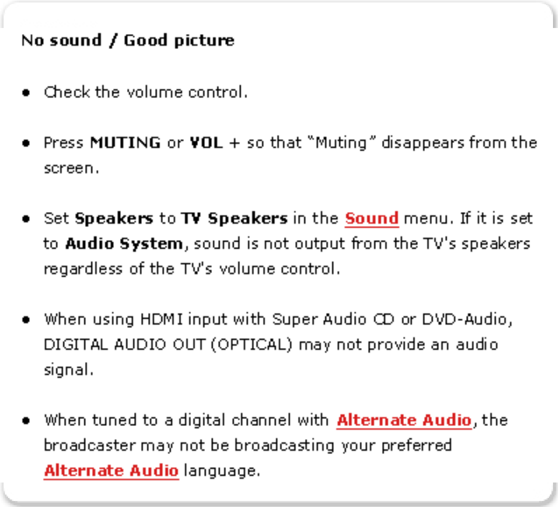
Troubleshooting - No Sound

- No sound / Good picture
- Audio noise



No sound / Good picture

- 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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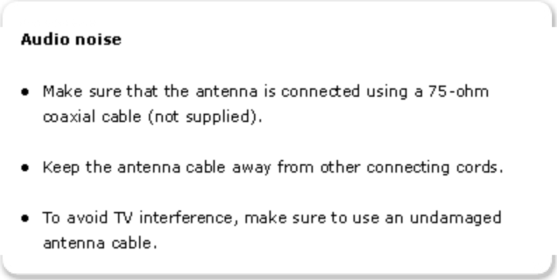
Troubleshooting - No Sound

- No sound / Good picture
- Audio noise



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.

Back to Troubleshooting - Poor Picture

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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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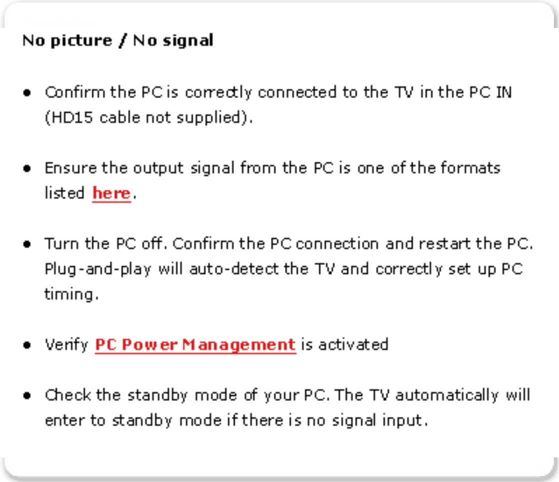
Next to Troubleshooting - BRAVIA Sync

Troubleshooting - PC Input

- No picture / No signal
- Poor Picture



No picture / No signal

- 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

Poor Picture

- Adjust the resolution.
- Adjust **Phase**.

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Next to Troubleshooting - BRAVIA Sync

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

Cannot find connected BRAVIA Sync HDMI device

- 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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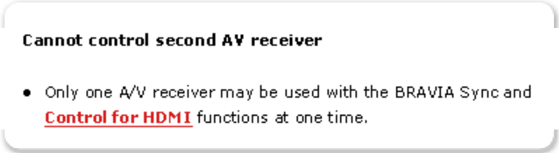
Troubleshooting - BRAVIA Sync

- Cannot find connected BRAVIA Sync HDMI device
- Cannot control second AV receiver



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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Next to Troubleshooting - General

Troubleshooting - General

- Wide Mode changes automatically
- 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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Troubleshooting - General

- Wide Mode changes automatically
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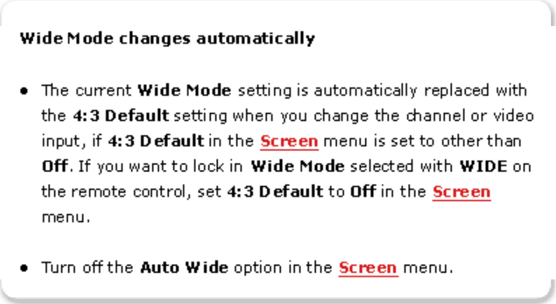

Wide Mode changes automatically

- 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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Troubleshooting - General

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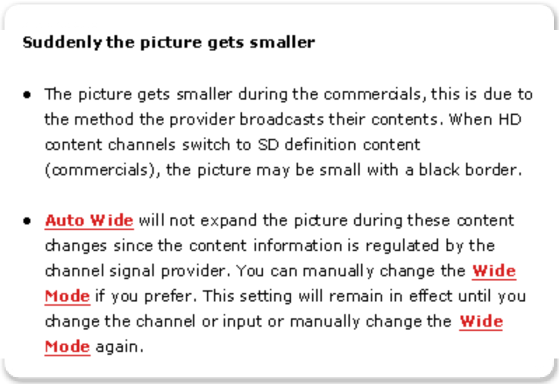

Suddenly the picture gets smaller

- 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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- How to reset the TV to factory settings

"Black box" on screen

- 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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Troubleshooting - General

- Wide Mode changes automatically
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- Lost password
- How to reset the TV to factory settings

Black bands appear at the edges of the screen

- 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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Troubleshooting - General

- Wide Mode changes automatically
- Suddenly the picture gets smaller
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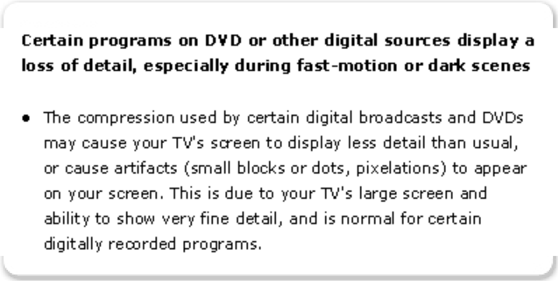

Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes

- 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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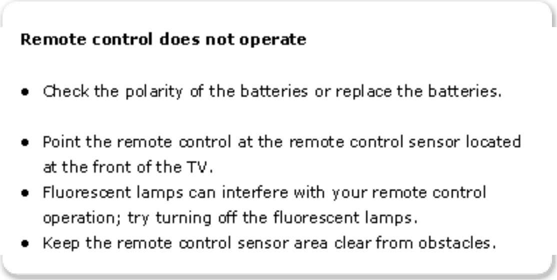
Troubleshooting - General

- Wide Mode changes automatically
- 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



Remote control does not operate

- 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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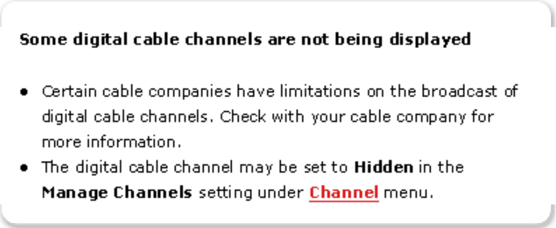

Some digital cable channels are not being displayed

- 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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Lost password

- 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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Troubleshooting - General

- Wide Mode changes automatically
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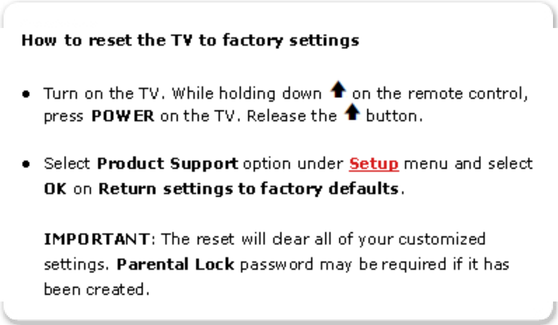
- How to reset the TV to factory settings



How to reset the TV to factory settings

- 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**.

  IMPORTANT: 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-32XBR9/KDL-40SL150/KDL-40V5100/KDL-46V5100/KDL-52V5100
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).

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.
Fergason Patent Properties, LLC:
U.S. Patent No. 5,717,422
U.S. Patent No. 6,816,141
Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
TruSurround XT, SRS and (●) symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.
Blu-ray Disc is a trademark.
“BRAVIA”, BRAVIA, BRAVIA Sync and R 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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#

0-9 buttons
4:3 Default

A

Accessing Music
Accessing Photos
Add Digital Channels
Alt. Audio/MTS
Advanced Settings
Adv. Contrast Enhancer
AUDIO OUT jack
Auto Program
Auto Wide

B

Backlight
Balance
Bass
BRAVIA Sync buttons
Brightness

C

Cable/Antenna
CABLE/ANTENNA input
CC button
CH +/– button
Change Password
Channel Block
Channel Menu
CineMotion
Clear White
Clock/Timers
Closed Captions (CC)
COMPONENT IN jack (1080p/1080i/720p/480p/480i)
Color
Color Temperature
Contact Sony
Control for HDMI
Current Time

D

Device Auto Power Off
Device List
Digital Rating
DISPLAY button

E

Eco: Backlight
Eco: Light Sensor
Eco: PC Power management
English Rating
ENT button
External Input Block

F

Favorites
FAVORITES button
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G

Game Mode
Gamma

H

HDMI IN jack
Horizontal Size
Hue

I

Info Banner
Initial Setup
Infrared Receiver (IR)
INPUT button
Installing the TV on a wall
Installing the Wall-Mount Bracket

J

JUMP button

L

Language
Light Sensor Described
Live Color

M

Manage Channels
Manage Inputs
MENU button
Motionflow
Movie Rating
MUTING button

N

Noise Reduction

P

Parental Lock Menu
PC IN jack
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Picture
Picture Adjustments Lock
Picture Menu
Picture Mode
Playback Method
POWER button
POWER LED
Product Support

R

Rating
RETURN button

S

S VIDEO jack
Sample Pictures and Music
Screen Menu
Select Country
Setup Menu
Sharpness
Signal Diagnostics
Sleep
Slideshow Speed
Sort by
Sound Menu
Sound Mode
Speakers
STANDBY LED
Steady Sound
Surround

T

Thumbnail View
Timer
TOOLS button
Treble
Troubleshooting
TV Auto Power On
TV POWER Button
TV Rating

U

U.S.A. Rating
Unrated
USB
USB Menu

V

Vertical Center
Vertical Size
Video/Component 1
VIDEO IN jack
VOL +/– button
Volume Offset

W

White Balance
WIDE button
Wide Mode
Wide Mode (for PC timings)

Specifications

Model	**KDL-32XBR9**	**KDL-40SL150**	**KDL-40V5100**	**KDL-46V5100**	**KDL-52V5100**
System					
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				
Input/Output jacks					
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 1/2/3/4	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 **PC Input Signal Reference Chart**.				
PC AUDIO INPUT	Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms				
USB	USB input support mass storage device class (USB MSC) that may include thumbdrives, hard disks and some MP3 players and cameras. This TV does not support MTP or PTP protocols used by some MP3 players and cameras. Supported JPG files include those that are compliant with ISO/IEC 10918-1 JPEG specification (8 bit per component, Grayscale/Color, Y:Cb:Cr=4:2:2 or Y:Cb:Cr=4:2:0, Base line DCT, Non-differential Huffman coding) and EXIF 2.2. Supported MP3 files bit rates in kpbs include 40, 48, 56, 64, 80, 96, 112, 128,160, 192, 224, 256, 320 in both constant and variable rate. Scan frequencies supported include 32, 44.1 and 48 Khz.				
Power and others					
Power requirement	120 V AC, 60 Hz				
Power consumption in use (maximum)	120 W	200 W	200 W	245 W	295 W
in standby	All models less than 1 W.				
Screen size (inches measured diagonally)	31.5 (32 class)	40	40	46	52
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)				
Speaker/Full range (2) (mm) (inches)	35 × 175 1 7/16 × 7				
Dimensions (W × H × D) with stand (mm) (inches)	798 × 584 × 227 31 1/2 × 23 × 9	991 × 685 × 271 38 7/8 × 27 × 10 3/4	987 × 684 × 271 38 7/8 × 27 × 10 3/4	1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4	1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/8
without stand (mm) (inches)	798 × 537 × 89 31 1/2 × 21 1/4 × 3 5/8	991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4	987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4	1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8	1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8
wall-mount hole pattern (mm)	200 × 200	300 × 300			
wall-mount screw size (mm)	M6 (length: refer to diagram in the online Reference Book)				
Mass with stand (kg) (lb.)	13.4 29.6	18.5 40.8	18.6 41.0	25.5 56.2	34.6 76.3
without stand (kg) (lb.)	12.2 26.9	16.8 37.1	16.9 37.3	22.6 49.8	30.0 66.1
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 (1) / Screws (4) (For KDL-52V5100 the screws are attached)				

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