SONY. BRAVIA

Sony Reference Book

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

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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 <u>Firefox</u> or <u>Internet Explorer</u>.

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Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

Getting Started

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



 $\label{thm:local_power_power} Home \mid Getting \ Started \mid Operating \ the \ TV \mid Using \ Features \mid Using \ the \ Menus \mid Other \ Information \mid Specifications \\ Copyright © 2009 \ Sony \ Electronics \ Inc. \ All \ rights \ reserved.$

Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

Getting Started > Installing the TV

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



Next to Carrying the TV

Q

<u>Getting Started</u> > <u>Installing the TV</u> > Carrying the TV

Q

Carrying the TV

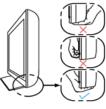
Some TV models are packaged with a detached Table-Top Stand so you can mount it to a wall right away. If you are not mounting the TV to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver and the supplied screws to complete the task. Look for the instructions attached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

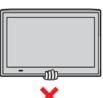
Be sure to consider the following while setting up your TV:

- 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

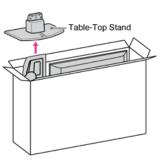


<u>Getting Started</u> > <u>Installing the TV</u> > Preparation for a Table-Top Stand

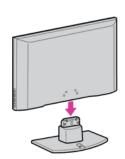
Preparation for a Table-Top Stand

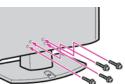
Follow the assembling steps required to place on a TV stand (except model, KDL-52V5100).

 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.











12-16mm

Preparation for a Wall-Mount Bracket

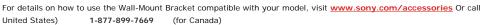
All models except the 52 inch (measured diagonally) model can be mounted to a wall using the Wall-Mount Bracket (not supplied) out of the box as packaged.

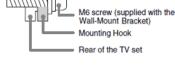
If you are mounting the 52 inch model to a wall, remove the Table-Top Stand. For removing the Table-Top Stand, refer to the instructions attached to the TV.

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
- 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.



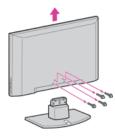


1-800-488-7669

(for

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

- $\textbf{1)} \ \ \textbf{Unplug the AC power cord and disconnect all the cables from the TV}.$
- 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



Getting Started Operating the TV **Using Features** Using the Menus Other Information Specifications

Getting Started > Installing the TV > 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.



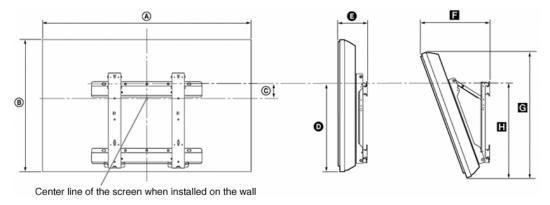
Next to Installing the Wall-Mount Bracket (Page 2)



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

	Display Dimension		Screen Length of Mounting		Length of Mounting				
Model Name	width height		center	center at 0 degree		at 20 degree angle			
	Α	В	С	D	E	F	G	Н	
KDL-32XBR9	31 1/2	21 1/4	6 7/8	18 1/4	5 3/4	11 1/2	20 1/8	19 3/8	
KDL-32ABR9	798	537	172	463	143	292	511	492	
KDL-40V5100	38 7/8	25 1/8	4 7/8	18 1/4	5 7/8	13	23 7/8	19 1/2	
KDL-40V5100	987	638	122	463	147	330	604	493	
KDL-40SL150	38 7/8	25 1/4	4 7/8	18 1/4	5 7/8	13	24	19 1/2	
KDL-403L150	991	639	122	463	147	329	605	494	
KDL-46V5100	44 1/4	28 5/8	3 3/8	18 5/8	6	14 1/4	27 1/8	19 7/8	
KDL-46V5100	1,123	725	84	471	150	359	686	503	
KDL-52V5100	49 3/4	32 1/2	1 9/16	18 7/8	6 3/4	16 1/8	30 3/4	20 3/8	
KDL-52V5100	1,262	823	39	478	169	409	778	515	

Installing the Wall-Mount Bracket (Page 3)

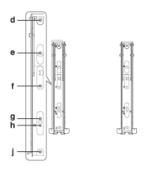
Installing the Wall-Mount Bracket and Mounting Hooks

3) Disconnect all cables and remove the Table-Top Stand.	Screw and Hook Locations Diagram
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-	·			
4)	Secure the Mounting Hook to the rear of the TV.	TV Model	Screw Location	Hook location
	Determine the screw locations and secure the Mounting Hooks to the rear of $\kappa \epsilon$	L-32XBR9	e, g	С
	the TV. Refer to the "Screw and Hook Locations Diagram/Table" shown here. KE	DL-40SL150	d, g	b
	KE	L-40V5100	d, g	b
	KE	L-46V5100	d, g	b
	KE	L-52V5100	d, g	b

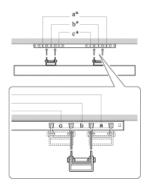
Screw location

When installing the Mounting Hooks on the TV



Hook location

When installing the TV onto Base Bracket.



 $^{^{\}star}$ Hook position "a" and "c" cannot be used for the models KDL-40SL150/KDL-40V5100/KDL-46V5100/KDL-52V5100.



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



^{*} Hook position "a" and "b" cannot be used for the model KDL-32XBR9.

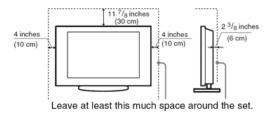
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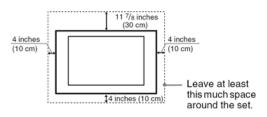
When Installing the TV Against a Wall or Enclosed Area

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

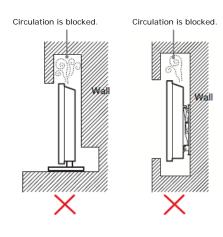
Installed with stand



Installed on the wall



Never install the TV set as follows:



■ 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.



Next to Bundling the Connection Cables



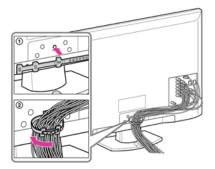
Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

 $\underline{\textbf{Getting Started}} > \underline{\textbf{Installing the TV}} > \underline{\textbf{Bundling the Connecting Cables}}$

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



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Getting Started Operating the TV **Using Features** Using the Menus Other Information Specifications

<u>Getting Started</u> > <u>Installing the TV</u> > 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)



Securing the TV (Page 2)

Use a Sony TV Stand

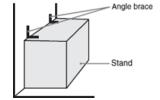
Use a Sony specified TV stand and follow the instruction manual provided with the Sony TV stand. If a Sony specified TV stand is not used, consider the following recommended measures.

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.

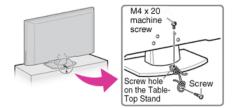


Secure the TV to the Stand

Use the optional hardware listed below (not supplied):

- $\bullet~$ M4 \times 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: <u>www.sony.com/accessories</u>
- For Canada call: 1-877-899-7669





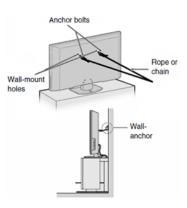


Securing the TV (Page 3)

Anchor the TV to the Wall

Use the hardware listed below (not supplied):

- ullet Two M6 imes 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.





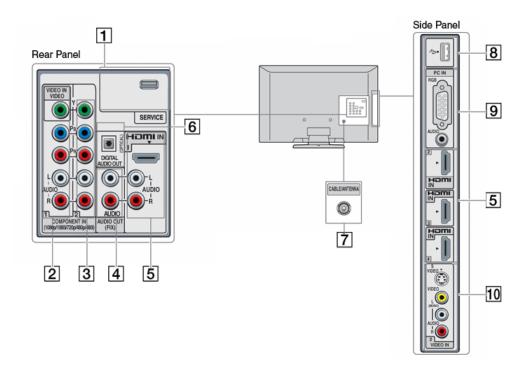




Q

Locating Inputs and Outputs

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



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.

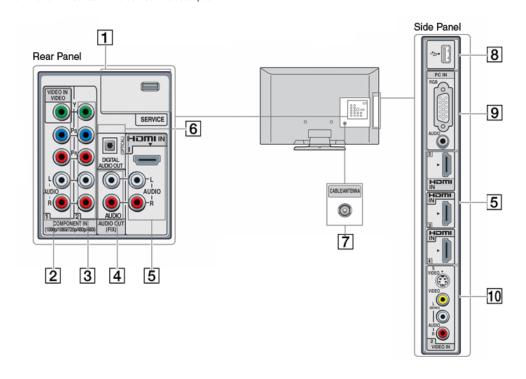




Q

Locating Inputs and Outputs

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



1 SERVICE

This port is to be used when service is required.

Be sure to refer to the Quick Setup Guide for:

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

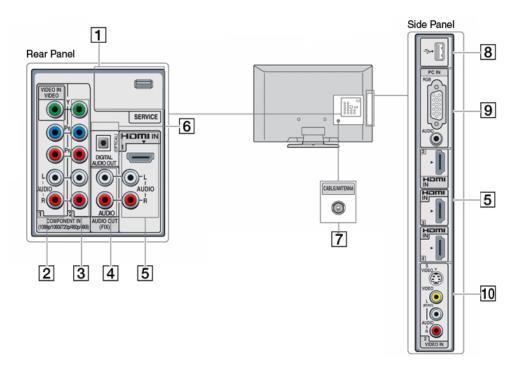
To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPBPR) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots \times 1,080 lines.





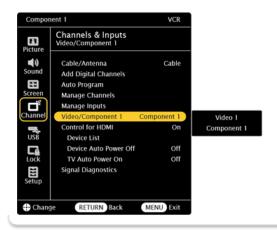
Locating Inputs and Outputs

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



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

This input port can be used as composite video input (VIDEO 1) or as component video input (COMPONENT 1). For composite use, connect the yellow jack to Y/Video for video and use audio L and R for audio signal. For component connection, use Y, PB, PR for video signals and also connect the audio L and R for audio signal. 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.



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 \times 1,080 lines.

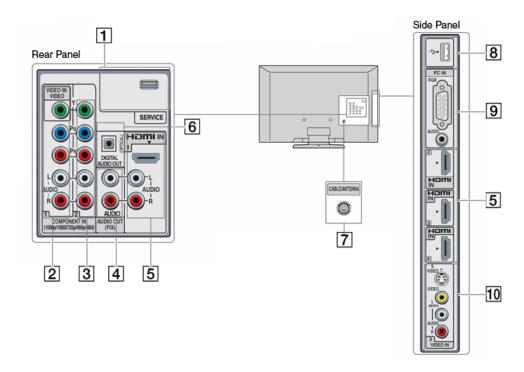


Back to Securing the TV (Page 3)

Q

Locating Inputs and Outputs

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



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.

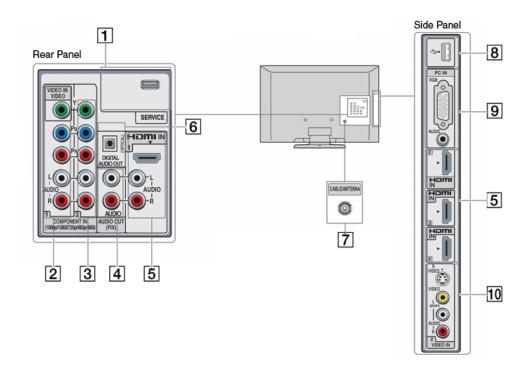




Q

Locating Inputs and Outputs

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



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 $\mathsf{TV}'\mathsf{s}$ 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 \times 1,080 lines.





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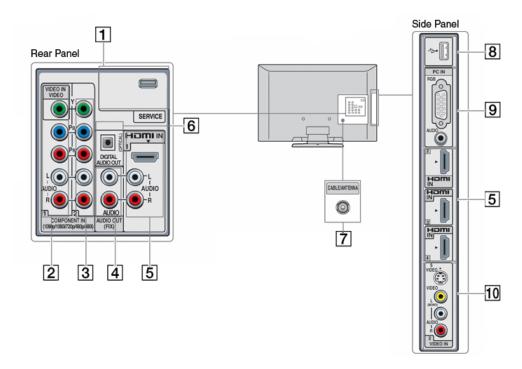
Specifications

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Q

Locating Inputs and Outputs

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



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 \times 1,080 lines.

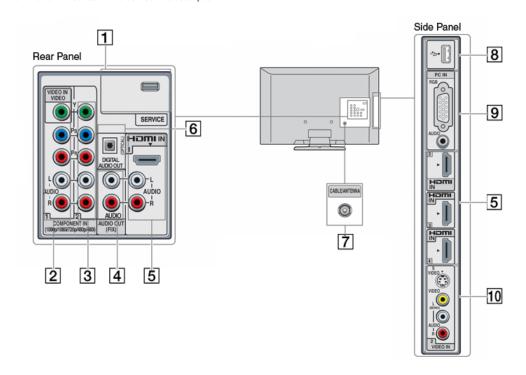




Q

Locating Inputs and Outputs

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



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 \times 1,080 lines.

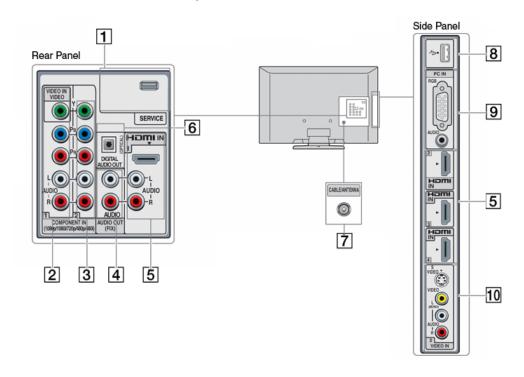




Q

Locating Inputs and Outputs

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



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 \times 1,080 lines.

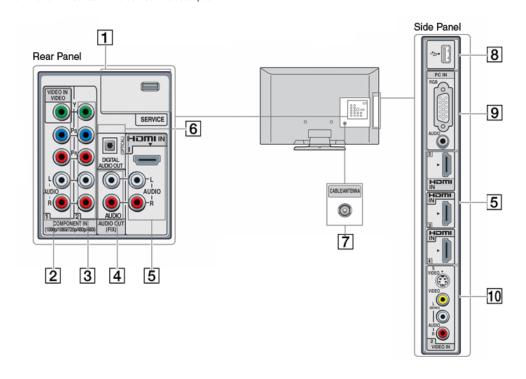




Q

Locating Inputs and Outputs

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



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 \times 1,080 lines.



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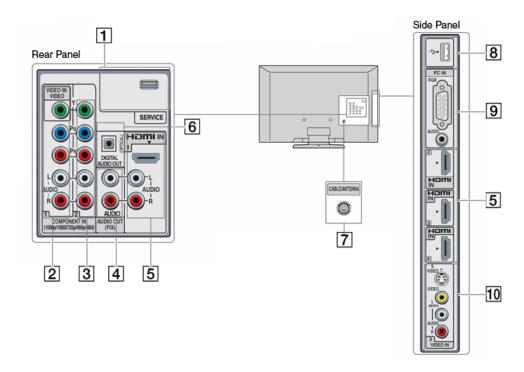
Specifications

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Q

Locating Inputs and Outputs

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



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 \times 1,080 lines.





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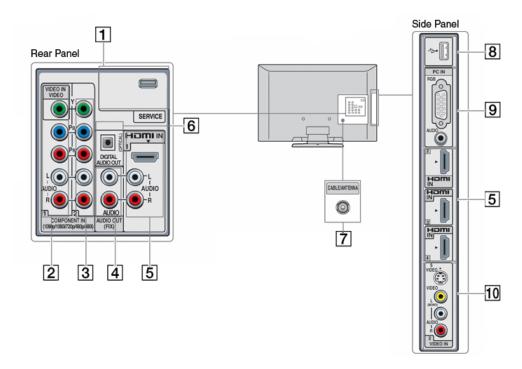
Specifications

Getting Started > Locating Inputs and Outputs

Q

Locating Inputs and Outputs

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



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 \times 1,080 lines.





Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

Getting Started > Connecting the TV

Connecting the TV

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

Input Signal Reference Chart

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

	INPUT	VIDEO AUDIO		High or Standard Definition Quality						
	Connector	Connection		HD				SD		PC
	Connector			1080/24p	1080p	1080i	720p	480p	480i	
Audio/Video Performance	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 When Video 1 is selected Composite video	Audio L/R		•	•	•	•	•	
	VIDEO 2	s VIDEO connection	Audio L/R						•	
	VIDEO 2	Composite video connection	Audio L/R						•	

^{*} For supported PC formats see the <u>PC Input Signal Reference Chart</u>.



Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

<u>Getting Started</u> > <u>Connecting the TV</u> > Cable System or/and VHF/UHF Antenna System

Q

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.

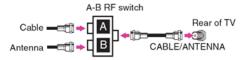
75-ohm coaxial Rear of TV CABLE/ANTENNA

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.



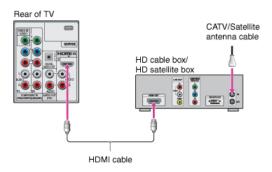


Q

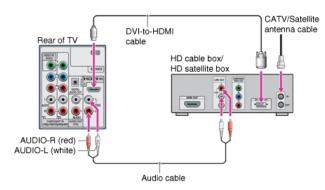
HD Cable Box/HD Satellite Box

You can enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service. For the best possible picture, make sure you connect this equipment to your TV via the HDMI or component video (with audio) input on the back of your TV.

Shown with HDMI Connection

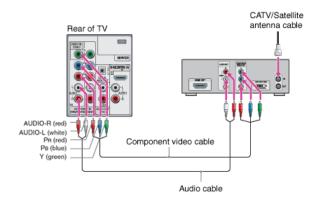


Shown with DVI Connection



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

Shown with Component Connection



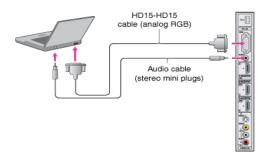
■ If you are using component video input (COMPONENT 1), make sure to select **Component 1** under <u>Channel</u> Menu.

<u>Getting Started</u> > <u>Connecting the TV</u> > 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.

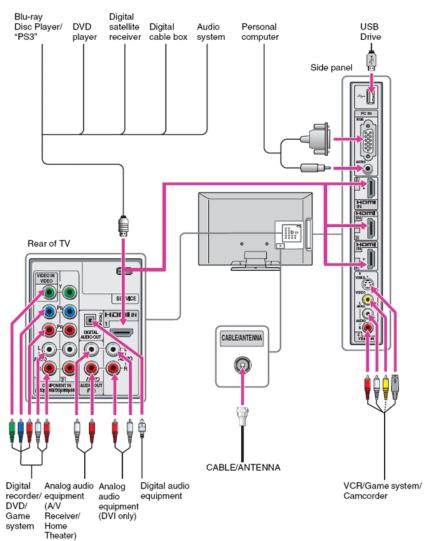
Supported R	esolutions			Horizontal	Vertical	Standard	
Signal	Horizontal (Pixel)	x	Vertical (Line)	frequency (kHz)	frequency (kHz)		
VGA	640	х	480	31.5	60	VGA	
SVGA	800	х	600	37.9	60	VESA Guidelines	
XGA	1,024	х	768	48.4	60	VESA Guidelines	
WXGA	1,280	х	768	47.8	60	VESA	
	1,360	х	768	47.7	60	VESA	
SXGA	1,280	х	1,024	64.0	60	VESA	
HDTV	1,920	х	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.



Q

Other Equipment



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



Next to Initial Setup



Q

Initial Setup

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

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











Getting Started	Operating the TV	Using Features	Using the Menus	Other Information	Specification

Operating the TV

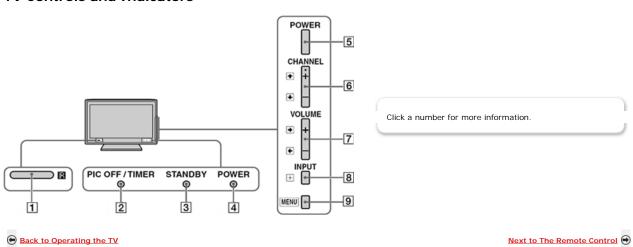
- TV Controls & Indicators
- The Remote Control
- Remote Control Button Description

 $\label{thm:local_power_power} Home \mid Getting \ Started \mid Operating \ the \ TV \mid Using \ Features \mid Using \ the \ Menus \mid Other \ Information \mid Specifications \\ Copyright © 2009 \ Sony \ Electronics \ Inc. \ All \ rights \ reserved.$

Q

Operating the TV > TV Controls and Indicators

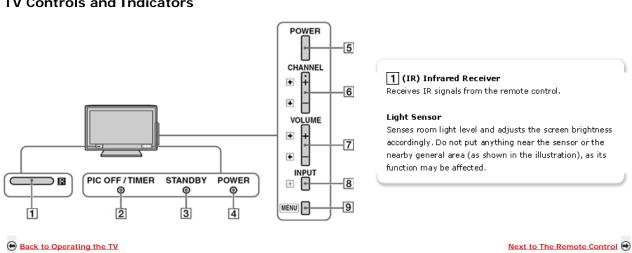
TV Controls and Indicators



 $\label{thm:local_power_power} Home \mid Getting \; Started \mid Operating \; the \; TV \mid Using \; Features \mid Using \; the \; Menus \mid Other \; Information \mid Specifications \\ Copyright \; © \; 2009 \; Sony \; Electronics \; Inc. \; All \; rights \; reserved.$

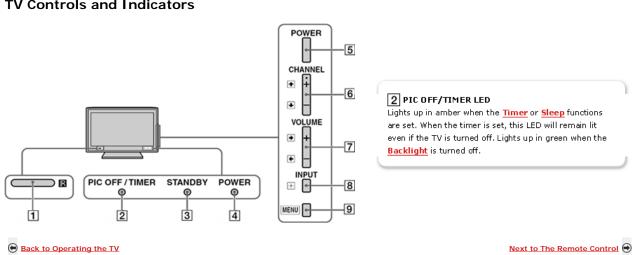
Operating the TV > TV Controls and Indicators

TV Controls and Indicators



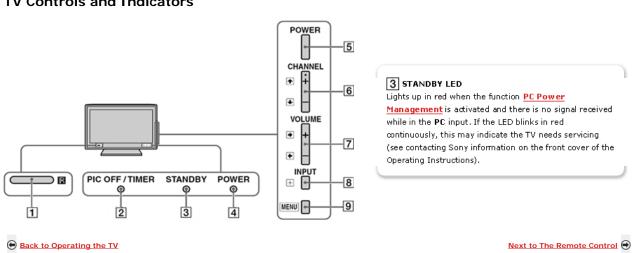
Operating the TV > TV Controls and Indicators

TV Controls and Indicators



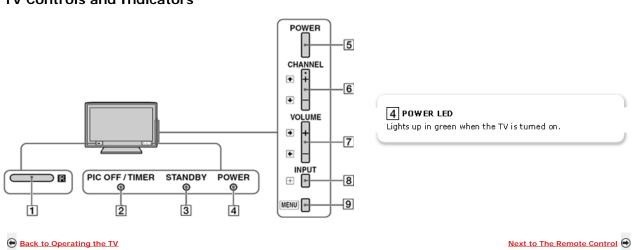
Operating the TV > TV Controls and Indicators

TV Controls and Indicators



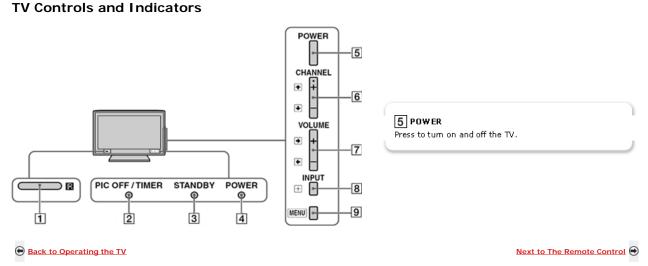
Operating the TV > TV Controls and Indicators

TV Controls and Indicators



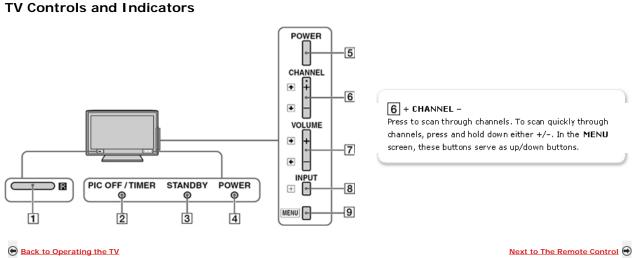
 $\label{thm:local_power_power} Home \mid Getting \; Started \mid Operating \; the \; TV \mid Using \; Features \mid Using \; the \; Menus \mid Other \; Information \mid Specifications \\ Copyright \; © \; 2009 \; Sony \; Electronics \; Inc. \; All \; rights \; reserved.$

Operating the TV > TV Controls and Indicators

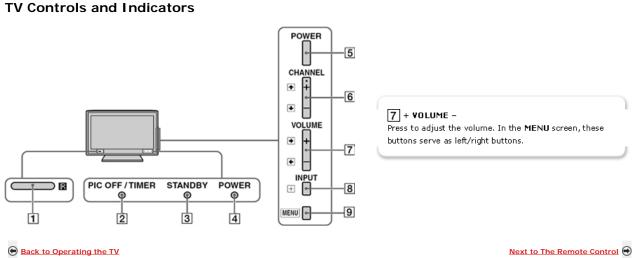


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Operating the TV > TV Controls and Indicators



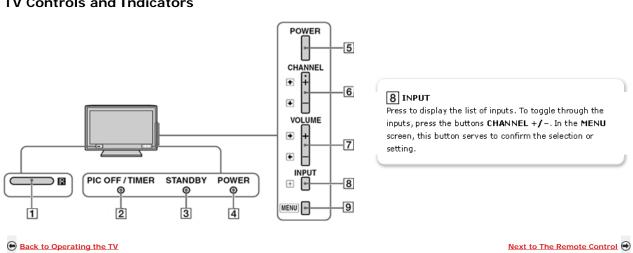
Operating the TV > TV Controls and Indicators



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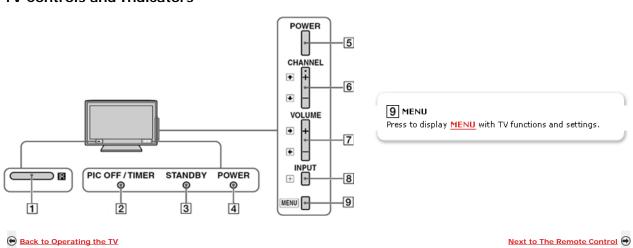
Operating the TV > TV Controls and Indicators

TV Controls and Indicators



Operating the TV > TV Controls and Indicators

TV Controls and Indicators



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Operating the TV > The Remote Control

The Remote Control

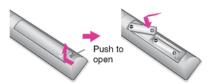
Inserting Batteries into the Remote Control

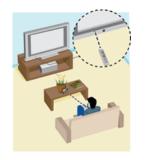
Insert two size AA batteries (supplied) by matching \bigoplus and \bigoplus on the batteries to the diagram inside the battery compartment of the remote control.

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.









Remote Control Button Description



Click a button on the remote control for more information.





Remote Control Button Description



DISPLAY

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

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



Remote Control Button Description



CC Press to turn on and off the <u>Closed Captions (CC)</u>.

Back to The Remote Control

Next to Using Features

Remote Control Button Description





Back to The Remote Control





Remote Control Button Description



BRAVIA Sync

These buttons are used to control the connected equipment with Control for HDMI function (not available on all

Control for HDMI equipment). Some other buttons on the remote control may also operate BRAVIA Sync equipment.

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

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 $\ensuremath{\mathsf{BRAVIA}}$ Sync audio system must be connected by an HDMI connection to your TV.







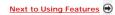
Remote Control Button Description



FAVORITES

Press once to display the stored $\underline{\textbf{Favorites}}$ menu. Press again to exit from the $\underline{\textbf{Favorites}}$ menu.







WIDE

Press repeatedly to cycle through the available $\underline{\textbf{Wide Mode}}$ settings.





Remote Control Button Description



INPUT

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





Q

Remote Control Button Description





Q

Remote Control Button Description



RETURN

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





Remote Control Button Description



TOOLS

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







MENU

Press to display the menu with TV functions and settings.





Specifications

Remote Control Button Description



0-9, ENT, and SELECT

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

Press ENT to change channels immediately.



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





Remote Control Button Description



VOL +/-Press to adjust the volume.

Back to The Remote Control

Next to Using Features

Q

Remote Control Button Description



CH +/-

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







MUTING

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





Remote Control Button Description



JUMP

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





Getting Started	Operating the TV	Using Features	Using the Menus	Other Information	Specification

Using Features

- Using BRAVIA Sync with Control for HDMI
- <u>Favorites</u>
- Wide Mode
- Wide Mode with PC

 $\label{thm:local_equation} Home \mid Getting \ Started \mid Operating \ the \ TV \mid Using \ Features \mid Using \ the \ Menus \mid Other \ Information \mid Specifications \\ Copyright @ 2009 \ Sony \ Electronics \ Inc. \ All \ rights \ reserved.$

<u>Using Features</u> > Using BRAVIA Sync with Control for HDMI



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 <u>Control for HDMI</u> function must be set up in order for the TV to communicate with other <u>Control for HDMI</u> 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 <u>Picture Mode</u> 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.





Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

Using Features > Favorites

Favorites

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

- Adding to Favorites
- Navigating Favorites





<u>Using Features</u> > <u>Favorites</u> > Adding to Favorites

Adding to Favorites

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

Displaying Favorites

Press **FAVORITES** on the remote control.



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





Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

<u>Using Features</u> > <u>Favorites</u> > Navigating Favorites

Navigating Favorites

- 1) Press $^{\spadesuit}/^{\spadesuit}$ 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 +.



Next to Wide Mode

Wide Mode

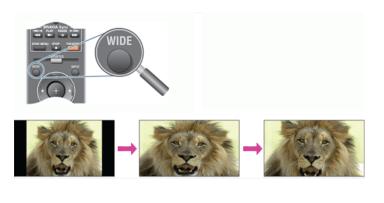
The **Wide Mode** feature allows you to select the screen display of your preference. Based on the original source, a black frame or black bars may surround the picture. You can manually change the **Wide Mode** setting while watching TV by pressing the **WIDE** button on your remote control.

How to set to Auto Wide

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

Changing the Wide Screen Mode

Press WIDE repeatedly to cycle through the available modes.



- 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 \mbox{WIDE} repeatedly to cycle through the available modes while in the \mbox{PC} input mode.

■ Full Pixel displays the picture in its native resolution.

e	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	Full pixel		
	This mode is not available.			

Incoming PC signal	Incoming PC signal				
800 × 600	1,280 × 768				
+ +					
Wide Zoom	Wide Zoom				
Normal	Normal				
Full	Full				
	808				
Zoom	Zoom				
Full Pixel	Full Pixel				

Getting Started Operating the TV **Using Features** Using the Menus Other Information Specifications

Q

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



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.

Allows you to move to the next screen.



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.



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.



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 Channel or hide channels to appear when you use the CH+/- button or even label channels or inputs.



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 Lock 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 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

Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

Using the Menus > Menu Descriptions

Menu Descriptions

- <u>Using the Picture Menu</u>
- Using the Sound Menu
- Using the Screen Menu
- Using the Channel Menu
- Using the USB Menu
- Using the Parental Lock
- Using the Setup Menu

Getting Started Operating the TV **Using Features** Using the Menus Other Information Specifications

<u>Using the Menus</u> > <u>Menu Descriptions</u> > Using the Picture Menu

Using the Picture Menu

Picture Mode

Reset

- Backlight
- Picture
- Brightness
- Color
- Hue
- Color Temperature
- Sharpness
- Noise Reduction
- Adv. Contrast Enhancer
- <u>Gamma</u>
- Clear White
- Live Color
- Advanced Settings

CineMotion

Game Mode

Motionflow

White Balance

Click a link to the left for more information.

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



Next to Using the Sound Menu



Q

Getting Started Operating the TV Using Features Using the Menus Other Information Specifications

<u>Using the Menus</u> > <u>Menu Descriptions</u> > Using the Picture Menu

Using the Picture Menu

Picture Mode

Reset

Backlight

<u>Picture</u>

• Brightness

Color

• <u>Hue</u>

<u>Color Temperature</u> <u>Sharpness</u>

ondrpricss

Noise Reduction

• Adv. Contrast Enhancer

• <u>Gamma</u>

Clear White

Live Color

Advanced Settings

CineMotion

Game Mode

<u>Motionflow</u>

White Balance

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.



Next to Using the Sound Menu



Using the Menus **Getting Started** Operating the TV **Using Features** Other Information Specifications

<u>Using the Menus</u> > <u>Menu Descriptions</u> > Using the Picture Menu

Using the Picture Menu

- Picture Mode
- Reset
- Backlight
- Picture
- Brightness
- Color
- Hue
- Color Temperature
- Sharpness
- Noise Reduction
- Adv. Contrast Enhancer
- <u>Gamma</u>
- Clear White
- Live Color
- Advanced Settings

CineMotion

Game Mode

Motionflow

White Balance

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

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



Next to Using the Sound Menu



Using the Picture Menu

- Picture Mode
- Reset
- Backlight
- Picture
- Brightness
- Color
- Hue
- Color Temperature
- Sharpness
- Noise Reduction
- Adv. Contrast Enhancer
- <u>Gamma</u>
- Clear White
- Live Color
- Advanced Settings

CineMotion

Game Mode

Motionflow

White Balance

Backlight

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

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

Back to Menu Descriptions

Next to Using the Sound Menu



Using the Picture Menu

- Picture Mode
- Reset
- Backlight
- Picture
- Brightness
- Color
- Hue
- Color Temperature
- Sharpness
- Noise Reduction
- Adv. Contrast Enhancer
- <u>Gamma</u>
- Clear White
- Live Color
- Advanced Settings

CineMotion

Game Mode

Motionflow

White Balance

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.

Back to Menu Descriptions

Next to Using the Sound Menu



Using the Picture Menu

- Picture Mode
- Reset
- Backlight
- Picture
- Brightness
- Color
- Hue
- Color Temperature
- Sharpness
- Noise Reduction
- Adv. Contrast Enhancer
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CineMotion

Game Mode

Motionflow

White Balance

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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CineMotion

Game Mode

Motionflow

White Balance

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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CineMotion

Game Mode

Motionflow

White Balance

Color Temperature

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

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



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CineMotion

Game Mode

Motionflow

White Balance

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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CineMotion

Game Mode

Motionflow

White Balance

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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CineMotion

Game Mode

Motionflow

White Balance

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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CineMotion

Game Mode

Motionflow

White Balance

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

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CineMotion

Game Mode

Motionflow

White Balance

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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CineMotion

Game Mode

Motionflow

White Balance

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 **Game Mode** Motionflow

White Balance

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 Applies an inverse 3-2 pull-down process along with motion estimation to (Auto for obtain the smoothest picture quality and reduces artifacts of moving model KDLimages. Select for standard use. 40SL150)

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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CineMotion

Game Mode

Motionflow

White Balance

Game Mode

Select \mathbf{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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CineMotion

Game Mode

Motionflow

White Balance

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 ${f High}$ and ${f Standard}$ 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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CineMotion

Game Mode

Motionflow

White Balance

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.

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- <u>Treble</u>
- Bass
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- Volume Offset
- Speakers
- Alt. Audio/MTS
- \blacksquare 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

• <u>Surround</u>

Steady Sound

• <u>Treble</u>

• Bass

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Volume Offset

• Speakers

• Alt. Audio/MTS

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.





Using Features Using the Menus **Getting Started** Operating the TV Other Information Specifications

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

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Using the Sound Menu

Available Sound settings depend on the Speakers setting.

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- \blacksquare 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.





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Available Sound settings depend on the Speakers setting.

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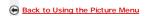
- Sound Mode
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Steady Sound

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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Using the Sound Menu

Available Sound settings depend on the Speakers setting.

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Using the Sound Menu

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

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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.

 \blacksquare Use TOOLS button on the remote control to quickly access to the Sound menu.



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• 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.





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- 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.

Select to automatically switch the TV to second audio programs when a Auto SAP

signal is received. If no SAP signal is present, the TV remains in Stereo

- 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.



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Using the Screen Menu

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- 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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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.

Select to display 4:3 pictures in original aspect ratio when the original Normal

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.

Select to enlarge the original picture horizontally and vertically to fill the Zoom

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



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Using the Screen Menu

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- Auto Wide
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4:3 Default

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

Wide Zoom Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original

image as much as possible, with minimal distortion.

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

Full Select to enlarge the picture horizontally to fill the screen when the original

source is 4:3 (standard-definition source).

Select this option to enlarge the picture horizontally and vertically to obtain Zoom

an aspect ratio equivalent to fill the screen.

Off To turn Off automatic size for 4:3.

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



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Vertical Center

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



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Vertical Size

Adjusts the vertical size of the picture.

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 Auto Wide
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Horizontal Size
Adjusts the horizontal size of the picture.

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• Wide Mode (For PC timings)

<u>Vertical Center</u> <u>Vertical Size</u> <u>Horizontal Size</u> <u>Phase</u>

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Wide Mode
Auto Wide
Adjust to fine tune overall sharpness.

4:3 Default
Vertical Center

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• Wide Mode (For PC timings)

<u>Vertical Size</u><u>Horizontal Size</u>

• Phase

 $\hfill \blacksquare$ Phase is disabled when the TV is receiving a different video input than PC.

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

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Cable/Antenna

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

Antenna Select if you are using an antenna.

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

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Add Digital Channels

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





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Auto Program

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

- 1) Select Auto Program.
- 2) Select OK to start Auto Program. When Auto Program is completed, the screen will display the number of channels found.
- IMPORTANT: Auto Program process is only effective when cable or antenna is connected. If you cancel Auto Program before completion, some channels may not be available.
- Auto Program will clear your Favorites list.

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Manage Channels

Follow the steps below to customize your channel menu for easy recognition when the ${\bf CHANNEL}$ 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:

- 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 (A-Z, 0-9) and press to select it. To move to the next character press (A-Z, 0-9) and press to select it. To move to the next character press (A-Z, 0-9) and press to select it. To move to the next character press (A-Z, 0-9) and press to select it. To move to an it is to select 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 $\spadesuit/\blacktriangledown$ to highlight your input selection and press \bigoplus 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 $\P/ \to / \Phi / \Phi$. 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

Select this option when using VIDEO 1 input Video 1 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 ${f Control}$ for ${f HDMI}$ 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.





<u>Using the Menus</u> > <u>Menu Descriptions</u> > Using the Channel Menu

Using the Channel Menu

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

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.

Back to Using the Screen Menu

Next to Using the USB Menu



 $Home \mid Getting \ Started \mid Operating \ the \ TV \mid Using \ Features \mid Using \ the \ Menus \mid Other \ Information \mid Specifications$ Copyright © 2009 Sony Electronics Inc. All rights reserved.

<u>Using the Menus</u> > <u>Menu Descriptions</u> > Using the Channel Menu

Using the Channel Menu

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

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 $\quad \text{for HDMI is On}.$

Back to Using the Screen Menu

Next to Using the USB Menu



 $Home \mid Getting \ Started \mid Operating \ the \ TV \mid Using \ Features \mid Using \ the \ Menus \mid Other \ Information \mid Specifications$ Copyright © 2009 Sony Electronics Inc. All rights reserved.

<u>Using the Menus</u> > <u>Menu Descriptions</u> > Using the Channel Menu

Using the Channel Menu

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

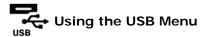
Signal Diagnostics

Allows to confirm the current signal performance.

Back to Using the Screen Menu







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.

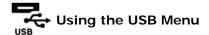
- Thumbnail View
- Sort by
- Playback Method
- Slideshow Speed
- Sample Pictures and
- Music
- Accessing Photos
- Accessing Music

Click a link to the left for more information.









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- Sample Pictures and
- Music
- Accessing Photos
- Accessing Music

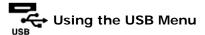
Thumbnail View

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









Enjoying Photos through the USB Port

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

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

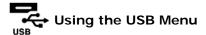
Sort by

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).









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.

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

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.









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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- Music
- Accessing Photos
- Accessing Music

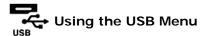


Select from ${\bf Slow}$, ${\bf Medium}$ or ${\bf Fast}$ to set the photo display duration.









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.

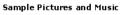
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- Thumbnail View
- Sort by
- Playback Method
- Slideshow Speed
- Sample Pictures and
- Music
- Accessing Photos
- Accessing Music



Select to view photos and music samples.

Back to Using the Channel Menu





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

Accessing Photos

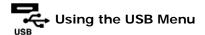
Insert your USB memory device to display your picture files on screen. Press **TOOLS** while displaying the picture and choose your desired photo viewing preferences. The photo display resolution range is 16 \times 16 to 8,192 \times 8,192 pixels.



Photo Options - menu

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.



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
- 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 $\frac{1}{2}$ / $\frac{1}{2}$ / from the remote control to navigate music during play.

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

Using the Menus > Menu Descriptions > 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 reenter 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
- <u>Digital Rating</u> (Available only in U.S.A. where advanced ratings exist)
- <u>Unrated</u> (Available only when Country is set to U.S.A.)
- Channel Block
- External Input Block
- Change Password
- Select Country

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

Back to Using the USB Menu

Click a link to the left for more information.

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Ra	iti	in

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

Select to set ratings manually: Custom

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
- U.S.A. Rating

Click a link to the left for more information.







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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.

- 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
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Digital Rating

Off Select to **Digital Rating** off. No programs containing digital ratings are

blocked from viewing.

Select to customize the Parental Lock with downloadable digital ratings. Custom

Select to clear the downloaded ratings. Clear All

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

Back to Using the USB 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 reenter 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.

- 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

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









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 reenter 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.

- 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

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:

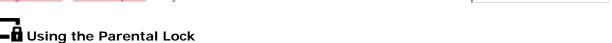
- English Rating
- French Rating
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Back to Using the USB Menu

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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 reenter 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
- <u>Digital Rating</u> (Available only in U.S.A. where advanced ratings exist)
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- Channel Block
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Custom Rating System Chart

For Country selection of U.S.A.:

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For Country selection of Canada:

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

Back to Using the USB Menu

External Input Block

Allows you to block individual video inputs.

Press $^{lack}/^{lack}$ to scroll through the video inputs and press lack to **Block** or **Allow** .

Click a link to the left for more information.





Using the Menus > Menu Descriptions > 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 reenter 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
- <u>Digital Rating</u> (Available only in U.S.A. where advanced ratings exist)
- <u>Unrated</u> (Available only when Country is set to U.S.A.)
- 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)

For Country selection of Canada:

- English Rating
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Back to Using the USB Menu

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Back to Using the USB Menu

Select Country

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

Click a link to the left for more information.





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 reenter it again to confirm the password.

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

For Country selection of Canada:

- English Rating
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Select Country

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

Movie Rating

All children and general audience G PG Parental guidance suggested Parental guidance for children under 13 PG-13

Restricted viewing, parental guidance is suggested for ages under 17

NC-17 and X No one 17 or under allowed

Back to Using the USB Menu





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Select Country

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

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

F۷ Fantasy violence D Suggestive dialogue Strong language L s Sexual situations Violence

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

Back to Using the USB Menu





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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

Select Country

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

English Rating

С 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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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

Select Country

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

French Rating

G General programming

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





Using the Menus > Menu Descriptions > 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 reenter 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
- <u>Digital Rating</u> (Available only in U.S.A. where advanced ratings exist)
- <u>Unrated</u> (Available only when Country is set to U.S.A.)
- Channel Block
- External Input Block
- Change Password
- Select Country

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

Back to Using the USB Menu

Select Country

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

U.S.A. Rating

See ${f TV}$ ${f Rating}$ under ${f U.S.A.}$ for details.

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- Picture Adjustments Lock
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Click a link to the left for more information.

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Closed Captions (CC)

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

Off Disables closed captions display.

Enables closed captions display.

Automatically displays closed caption when the TV is muted. On when

Muting

■ 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).

 $\textbf{Display Options} \textbf{Customize the Closed Captions (CC)} \ \textbf{displays}. \ \textbf{Select As Broadcast},$ Small Text, Large Text, or Custom.







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Info Banner

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

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

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Clock/Timers: Sleep

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

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Clock/Timers: Current Time

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

- 1) Press (+) to select Current Time.
- 2) Press $^{\bullet/}$ / $^{\bullet/}$ 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 ${f Timer}$ you must program the following settings: ${f Days}$, ${f Time}$, ${f Duration}$, ${f Source}$, ${f Channel}$ and ${f Volume}$.

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: $\mathbf{English}$, Español (Spanish), Français (French).

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Eco: Backlight

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

- The backlight is turned on. 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: Light Sensor
- Picture Adjustments Lock
- Product Support

Eco: PC Power Management

Select $\mathbf{0}\mathbf{n}$ 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 \mathbf{On} option). Select \mathbf{Off} to disable this feature.

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

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- Picture Adjustments Lock
- Product Support

Eco: Light Sensor

Select $\mathbf{O}\mathbf{n}$ 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
- Product Support





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

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- Picture Adjustments Lock
- Product Support

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 \mathbf{OK} to reset the TV to factory default settings, or \mathbf{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
- <u>General</u>

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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



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



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

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







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

Cannot receive or select channels

- To receive or select Cable channels, make sure to select Cable
 on the option Cable/Antenna under <u>Channel</u> 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 <u>Auto Program</u> 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.





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



TV is locked to one channel

 Perform <u>Auto Program</u> to add available channels that are not presently in the TV's channel's 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 <u>Sleep</u> is activated, or confirm the **Duration** setting of **Timer**.
- Check PC Power Management under <u>Eco</u> settings.

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Next to Troubleshooting - Poor Picture

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.







Other Information > Troubleshooting - Poor Picture

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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Other Information > Troubleshooting - Poor Picture

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

Double images or ghosts

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

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- 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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Next to Troubleshooting - No Sound/Noisy Sound

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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.





Other Information > Troubleshooting - Poor Picture

Troubleshooting - Poor picture

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- 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
- Blurry picture / Poor color

Back to Troubleshooting - No Picture

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

Adjust the **Picture Mode** settings in the <u>Picture</u> menu.

Next to Troubleshooting - No Sound/Noisy Sound

Other Information > Troubleshooting - Poor Picture

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
- Blurry picture / Poor color

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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Other Information > Troubleshooting - Poor Picture

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
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- 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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Other Information > Troubleshooting - No Sound

Troubleshooting - No Sound

- No sound / Good picture
- Audio noise

No sound / Good picture

- Check the volume control.
- \bullet Press MUTING or $\forall 0L + \text{so that "Muting" disappears from the}$ screen.
- \bullet Set Speakers to TV Speakers in the $\underline{\textbf{Sound}}$ 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.

Back to Troubleshooting - Poor Picture

Next to Troubleshooting - PC Input



Other Information > Troubleshooting - No Sound

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.



Next to Troubleshooting - PC Input



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Other Information > Troubleshooting - PC Input

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 <u>here</u>.
- 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.

Back to Troubleshooting - No Sound/Noisy Sound

Next to Troubleshooting - BRAVIA Sync



Other Information > Troubleshooting - PC Input

Troubleshooting - PC Input

No picture / No signal
Poor Picture

Adjust the resolution.

Adjust Phase.

Next to Troubleshooting - BRAVIA Sync €

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Other Information > Troubleshooting - BRAVIA Sync

Troubleshooting - BRAVIA Sync

Cannot find connected BRAVIA Sync Click a condition to the left for an explanation/solution.

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

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Other Information > Troubleshooting - BRAVIA Sync

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 <u>Control for HDMI</u> is set up on both the TV and the optional device compatible with BRAVIA Sync.





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Other Information > Troubleshooting - BRAVIA Sync

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 <u>Control for HDMI</u> functions at one time.





Other Information > 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.

Next to Safety and Legal Information

Other Information > Troubleshooting - General

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
- Turn off the Auto Wide option in the Screen menu.

Back to Troubleshooting - BRAVIA Sync

Next to Safety and Legal Information



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Troubleshooting - General

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- How to reset the TV to factory settings

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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Other Information > Troubleshooting - General

Troubleshooting - General

- Wide Mode changes automatically
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- Some digital cable channels are not being displayed
- Lost password
- 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 <u>Closed Captions</u> option to **Off**. If you were trying to select closed captioning, select **CC1** instead of **Text1-4**.

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Troubleshooting - General

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- Remote control does not operate
- Some digital cable channels are not being displayed
- 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

Back to Troubleshooting - BRAVIA Sync



Other Information > Troubleshooting - General

Troubleshooting - General

- Wide Mode changes automatically
- Suddenly the picture gets smaller
- <u>"Black box" on screen</u>
- 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

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.

Back to Troubleshooting - BRAVIA Sync



Other Information > Troubleshooting - General

Troubleshooting - General

- Wide Mode changes automatically
- Suddenly the picture gets smaller
- <u>"Black box" on screen</u>
- 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 <u>Channel</u> menu.



 $\label{thm:local_power_power} Home \mid Getting \ Started \mid Operating \ the \ TV \mid Using \ Features \mid Using \ the \ Menus \mid Other \ Information \mid Specifications \\ Copyright © 2009 \ Sony \ Electronics \ Inc. \ All \ rights \ reserved.$

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Lost password

 Select the <u>Parental Lock</u> 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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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 <u>Setup</u> menu and select OK on Return settings to factory defaults.

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

Back to Troubleshooting - BRAVI A Sync



Other Information > Safety and Legal Information



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

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 🖪 are trademarks or registered trademarks of Sony Corporation.

[&]quot;PlayStation" is a registered trademark and "PS3" is a trademark of Sony Computer Entertainment Inc.









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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Other Information > Index

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Α

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

В

Backlight
Balance
Bass
BRAVIA Sync buttons
Brightness

С

Cable/Antenna
CABLE/ANTENNA input
CC button
CH +/- button
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Channel Block
Channel Menu
CineMotion
Clear White
Clock/Timers
Closed Captions (CC)
COMPONENT IN jack (1080p/1080i/720p/480p/480i)

Color Temperature
Contact Sony

Control for HDMI
Current Time

D

Device Auto Power Off
Device List
Digital Rating
DISPLAY button

Ε

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

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F

Favorites FAVORITES button French Rating

G

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Н

HDMI IN jack Horizontal Size Hue

I

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Installing the TV on a wall
Installing the Wall-Mount Bracket

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Timer
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TV Auto Power On
TV POWER Button
TV Rating

U

U.S.A. Rating
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V

Vertical Center
Vertical Size
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VIDEO IN jack
VOL +/- button
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W

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

п	Q
- 1	•

Specifications

Model	KDL-32XBR9	KDL-40SL150	KDL-40V5100	KDL-46V5100	KDL-52V5100			
System								
	NTSC: American TV standa	ard						
•	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	_						
Speaker output	10 W + 10 W	y) runer						
· · ·								
Input/Output jack		5 DE 11-						
CABLE/ANTENNA	75-ohm external terminal	•						
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 u		ne					
COMPONENT IN 1/2	AUDIO: 500 mVrms (Typic	•		ND: 0.71/m m				
COMPONENT IN 1/2	YPBPR (Component Video)							
		-	30i, 480p, 720p, 1080i, 10	зор				
UDMI IN 4 /0 /0 /4	AUDIO: 500 mVrms (Typic	*			LIL 47 00 1 0 41-11-			
HDMI IN 1/2/3/4	· ·			linear PCM 32, 44.1 and 48	KHZ, 16, 20 and 24bits.			
ALIBIO OLIT	AUDIO: 500 mVrms (Typic	ai) / impedance: 47 kilonr	ns					
AUDIO OUT	500 mVrms (typical)							
DIGITAL AUDIO	PCM optical signal							
OUT (OPTICAL)								
PC IN	D-sub 15-pin, analog RGB,		ve					
	See the PC Input Signal							
PC AUDIO INPUT	Stereo mini jack, 500 mVr	ms, (Typical) / Impedance	: 47 kilohms					
USB	USB input support mass st	orage device class (USB M	SC) that may include thum	bdrives, hard disks and som	e MP3 players and			
	cameras. This TV does not	support MTP or PTP protoc	cols used by some MP3 pla	yers 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, No	n-differential Huffman codi	ng) and EXIF 2.2. Supported	d MP3 files bit rates in kpb			
			24, 256, 320 in both const	ant and variable rate. Scan f	requencies supported			
	include 40, 48, 56, 64, 80, include 32, 44.1 and 48 Kh		24, 256, 320 in both const	ant and variable rate. Scan f	requencies supported			
Power and others	include 32, 44.1 and 48 Kh		24, 256, 320 in both const	ant and variable rate. Scan f	requencies supported			
			24, 256, 320 in both const	ant and variable rate. Scan f	requencies supported			
Power requirement	include 32, 44.1 and 48 Kf	nz.						
Power requirement Power consumption	include 32, 44.1 and 48 Kh		24, 256, 320 in both const	ant and variable rate. Scan f	requencies supported			
Power requirement Power consumption in use (maximum)	include 32, 44.1 and 48 Kf	nz.						
Power requirement Power consumption in use (maximum) in standby	include 32, 44.1 and 48 Kh 120 V AC, 60 Hz 120 W All models less than 1 W.	nz.						
Power requirement Power consumption in use (maximum) in standby Screen size	120 V AC, 60 Hz 120 W All models less than 1 W.	nz.						
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured	include 32, 44.1 and 48 Kh 120 V AC, 60 Hz 120 W All models less than 1 W.	200 W	200 W	245 W	295 W			
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally)	120 V AC, 60 Hz 120 W All models less than 1 W.	200 W	200 W	245 W	295 W			
Power and others Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class)	200 W	200 W	245 W	295 W			
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class)	200 W	200 W	245 W	295 W			
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Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches)	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class)	200 W	200 W 40 35 × 175	245 W	295 W			
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Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class)	200 W	200 W 40 35 × 175	245 W	295 W			
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Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 1	200 W 40 1,080 lines (vertical)	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271	245 W 46 1,123 × 772 × 323	295 W 52 1,262 × 871 × 362			
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Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand (mm) (inches) wall-mount hole	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 120 dots (ho	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4	245 W 46 1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96	295 W 52 1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/			
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Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand (mm) (inches) will-mount hole pattern (mm) wall-mount screw size (mm) Mass with stand (kg)	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 1 798 × 584 × 227 31 1/2 × 23 × 9 798 × 537 × 89 31 1/2 × 21 1/4 × 3 5/8 200 × 200	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4 M6 (length: ref	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4 300 fer to diagram in the online	245 W 46 1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8 × 300 Reference Book)	295 W 52 1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/ 1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8			
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand (mm) (inches) wall-mount hole pattern (mm) wall-mount screw size (mm) Mass with stand (kg) (lb.)	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 1 798 × 584 × 227 31 1/2 × 23 × 9 798 × 537 × 89 31 1/2 × 21 1/4 × 3 5/8 200 × 200	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4 M6 (length: ret	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4 300 fer to diagram in the online	245 W 46 1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8 × 300 Reference Book)	295 W 52 1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/ 1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8			
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand (mm) (inches) wall-mount hole pattern (mm) wall-mount screw size (mm) Mass with stand (kg) (lb.)	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 1 798 × 584 × 227 31 1/2 × 23 × 9 798 × 537 × 89 31 1/2 × 21 1/4 × 3 5/8 200 × 200	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4 M6 (length: ret	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4 300 fer to diagram in the online	245 W 46 1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8 × 300 Reference Book)	295 W 52 1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/ 1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8			
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand (mm) (inches) wall-mount hole pattern (mm) wall-mount screw size (mm) Mass with stand (kg) (ib.)	120 V AC, 60 Hz 120 W All models less than 1 W: 31.5 (32 class) 1,920 dots (horizontal) × 1 798 × 584 × 227 31 1/2 × 23 × 9 798 × 537 × 89 31 1/2 × 21 1/4 × 3 5/8 200 × 200	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4 M6 (length: ret 18.5 40.8	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4 300 fer to diagram in the online 18.6 41.0	1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8 × 300 Reference Book)	1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/ 1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8			
Power requirement Power consumption in use (maximum) in standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches)	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 1 1798 × 584 × 227 31 1/2 × 23 × 9 798 × 537 × 89 31 1/2 × 21 1/4 × 3 5/8 200 × 200	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4 M6 (length: ref 18.5 40.8 16.8 37.1	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4 300 fer to diagram in the online 18.6 41.0 16.9 37.3	245 W 46 1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8 × 300 Reference Book) 25.5 56.2 22.6	295 W 52 1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/ 1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8 34.6 76.3 30.0 66.1			
Power requirement Power consumption In use (maximum) In standby Screen size (inches measured diagonally) Display resolution Speaker/Full range (2) (mm) (inches) Dimensions (W × H × D) with stand (mm) (inches) without stand (mm) (inches) wall-mount hole be pattern (mm) wall-mount screw size (mm) Mass with stand (kg) (lb.) without stand (kg) (lb.)	120 V AC, 60 Hz 120 W All models less than 1 W. 31.5 (32 class) 1,920 dots (horizontal) × 1 31.1/2 × 23 × 9 31 1/2 × 21 1/4 × 3 5/8 200 × 200 13.4 29.6 12.2 26.9 Remote control RM-YD028	200 W 40 1,080 lines (vertical) 991 × 685 × 271 38 7/8 × 27 × 10 3/4 991 × 639 × 93 38 7/8 × 25 1/4 × 3 3/4 M6 (length: ref 18.5 40.8 16.8 37.1 (1) / Size AA batteries (2)	200 W 40 35 × 175 1 7/16 × 7 987 × 684 × 271 38 7/8 × 27 × 10 3/4 987 × 638 × 93 38 7/8 × 25 1/8 × 3 3/4 300 fer to diagram in the online 18.6 41.0 16.9 37.3 / Cable holder (1 attached	245 W 46 1,123 × 772 × 323 44 1/4 × 30 1/2 × 12 3/4 1,123 × 725 × 96 44 1/4 × 28 5/8 × 3 7/8 × 300 Reference Book) 25.5 56.2 22.6 49.8	295 W 52 1,262 × 871 × 362 49 3/4 × 34 3/8 × 14 3/ 1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/3 34.6 76.3 30.0 66.1 ructions (1) / Quick Setup			

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Optional accessories	Connecting cables	/ Wall-Mount	Bracket:	SU-WI 500

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