

LCD TV

Operating Instructions

Introducing Your New BRAVIA®
Getting Started
Operating the TV
Using Features
Using the Menus
Other Information

Sony Customer Support

U.S.A.: http://www.sony.com/tvsupport Canada: http://www.sony.ca/support

United States Canada

1.800.222.SONY 1.877.899.SONY

Please Do Not Return the Product to the Store



Owner's Record

The model and serial numbers are located at the side and rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this TV.

Model Name	
Serial No.	

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 110-240 V AC (USA/Canada/Mexico 120 V AC).
- □ Avoid operating the TV at temperatures below 41°F (5°C).

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 in the United States and other countries.

Fergason Patent Properties, LLC:

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

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

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Blu-ray Disc is a trademark.

"BRAVIA" and BRAVIA, BRAVIA Sync, and

□ are trademarks or registered marks of Sony Corporation.

"PlayStation" is a registered trademark and "PS3" is a trademark of Sony Computer Entertainment Inc.







Cleaning

When cleaning, be sure to unplug the power cord to avoid any chance of electric shock.

- Wipe the LCD screen gently with a soft cloth.
- Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.
- Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
- See the supplied Safety Booklet for additional information.

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Customer Support

United States http://www.sony.com/tvsupport Canada http://www.sony.ca/support

On-line Registration

United States http://productregistration.sony.com Canada http://www.sony.ca/registration

Welcome to the World of BRAVIA®

Thank you for choosing this Sony BRAVIA® high-definition television. Use the documentation listed below to get the most out of your TV.



Safety Booklet

Contains precautionary measures to keep you and your TV safe. Read this information prior to setting up your TV.



Quick Setup Guide

Provides TV setup information with sample connection diagrams.



Operating Instructions

Provides the most detailed information to operate your TV.

Experiencing Stunning HD with Your BRAVIA

The quality of the image you see on your **BRAVIA** TV is only as good as the quality of the signal it receives. To experience the stunning detail of your new **BRAVIA** TV, you need access to HD programming. Your **BRAVIA** TV can receive and display HD programming from:

- · Over-the-air broadcasting via HD-quality antenna
- HD cable subscription
- HD satellite subscription
- Blu-ray $\mathsf{Disc}^{\scriptscriptstyle\mathsf{TM}}$ player or other HD compatible external equipment

Contact your cable, satellite or HD service provider for information on upgrading to HD programming.

The Four Steps to a Stunning HD Experience

Set, Source, Sound, and Setup

Along with your **BRAVIA** TV **set**, a complete HD system requires a **source** of HD programming, an HD **sound** system, and a proper connection **setup**. Refer to the Quick Setup Guide, enclosed separately, for connecting optional equipment.





You can enjoy crisp, clear images, smooth movement, and high-impact visuals from 1080 HD signals as shown here.

When you compare a high-definition signal to a standard analog signal, you will notice a big difference in picture quality. If black bars appear as shown here, press **WIDE** on the remote control to fill the screen.

TV Feature Highlights

Your BRAVIA comes with many convenient features, such as:

- ➤ BRAVIA® Sync™: Allows your BRAVIA TV to communicate with other Sony equipment supporting the Control for HDMI function (page 27).
- Digital Media Accessibility: Use the Photo, Music (KDL-46/40BX450 only), and Video icons to access photo, music, and video files from Sony USB equipment (page 31).
- > PIP (Picture in Picture): You can work on your PC and watch your favorite TV program simultaneously (page 28).
- > Favorites: Your favorite channels and inputs are at your finger tips for easy access (page 29).
- > Auto Wide Mode: Set your TV to automatically adjust the screen based on the signal resolution (page 29).
- ➤ **Input Selection**: Allows you to easily switch between the connected equipment (page 31).

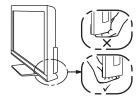
> Scene Select: Allows you to easily adjust your TV to the most suitable picture and sound settings based on the scenes for the best quality result for the contents genre you are watching (page 23).

Setting Up Your TV

Some TV models are packaged with a detached Table-Top Stand so you can mount your TV 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 attachment instructions provided with the TV. Be sure to consider the following while setting up your TV:

- Disconnect all cables when carrying the TV.
- Carry the TV with the 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 damage.



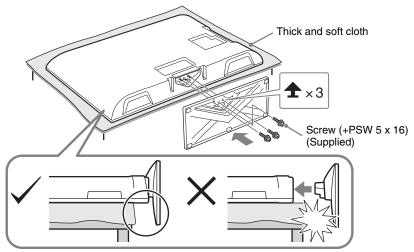


- Ensure your TV has adequate ventilation, see page 17.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid installing the TV in a room with reflective wall and floor materials.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature 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.

Attaching the Table-Top Stand



- Refer to the supplied stand leaflet for proper attachment.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- 1 Place the TV with its screen facing down on a level and stable surface covered with a thick and soft cloth.
- 2 Fix the TV to the stand according to the arrow marks ★ that guide the screw holes using the supplied screws.



* Be careful not to hit the Table-Top Stand against the edge of the surface when attaching it.



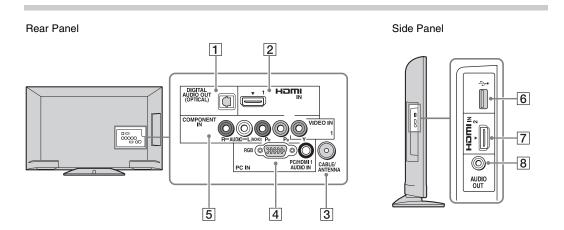
- Hold the Table-Top Stand with one hand to avoid it dropping when attaching.



- This TV is very heavy, so two or more people should place the TV onto thick and soft cloth.
- If using an electric screwdriver, set the tightening torque at approximately 1.5 N·m (15 kgf·cm).
- Be sure to securely tighten the three supplied screws, otherwise the TV may fall down.
- Use an appropriate screwdriver to attach the screws tightly without damaging the screw head.

- Please ensure the AC power cord is away from the stand installation location when you attach the stand.
- Do not touch the inner side of the bottom of the TV stand to avoid being hurt.

Locating Inputs and Outputs



Item Description

DIGITAL AUDIO Connects to the optical audio input of digital audio equipment that is PCM/ **OUT (OPTICAL)** Dolby*1 Digital compatible.

2 HDMI IN 1/2

7

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, 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. Use the HDMI IN 1 port when connecting DVI equipment. Use a DVI-to-HDMI cable or adapter (not supplied). Equipment using a DVI connection also requires an additional audio connection using an audio cable connected to PC/HDMI 1 AUDIO IN of PC IN.

3 CABLE/ ANTENNA

RF input that connects to your Cable or VHF/UHF antenna.

4 PC IN (RGB)

Connects to a personal computer's video and audio output connector. Can also be connected to other analog RGB equipment. See "PC Input Signal Reference Chart" on page 50 for the signals that can be displayed. 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. See page 15 for information on how to setup your PC to this TV.

^{*1}Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Ite	m	Description
5 VIDEO IN 1/ COMPONENT IN/R-AUDIO-L (MONO)		This input port can be used as a composite video input (VIDEO 1) or as a component video input (COMPONENT). For composite use, connect the yellow jack to Y for video and use audio L (mono) and R for audio signal. For component connection, use Y, PB, PR for video signals and also connect the audio L (mono) and R for audio signal. This TV can auto detect and switch between the VIDEO 1 and COMPONENT when VIDEO 1 or COMPONENT is connected. To set to auto detection, press HOME , select Settings , and then select the Setup settings. Select the Video1/Component Selection option in AV Setup then set to Auto .
6	USB	Connects to USB equipment to access photo, music, and video files.
8	AUDIO OUT	Connects to the audio input jacks of your analog audio equipment. You can use these outputs to listen to your TV's audio through your stereo system.



• An HDMI or Component video (YPBPR) connection is required to view 480i, 480p, 720p, 1080i and 1080p video formats. 1080/24p is available only with HDMI connection.

Connecting the TV

Cable System or VHF/UHF Antenna System

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

This TV is capable of receiving unscrambled digital programming for both cable (QAM and 8VSB) and external VHF/UHF antenna (ATSC).

■ Cable or VHF/UHF (or VHF only)

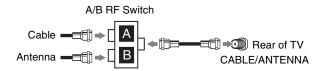




• It is strongly recommended that you connect the CABLE/ANTENNA input using a 75-ohm coaxial cable to receive optimum picture quality. A 300-ohm twin lead cable can easily be affected by radio frequency interference, resulting in signal degradation.

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, as indicated below.



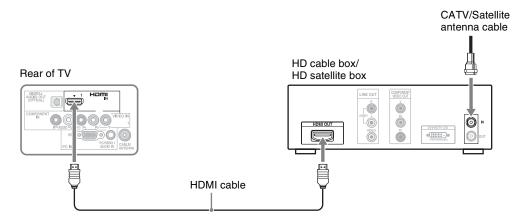


• Be sure to set the **Signal Type** setting to **Cable** or **Antenna** found under the **Channel** settings for your input signal (page 41).

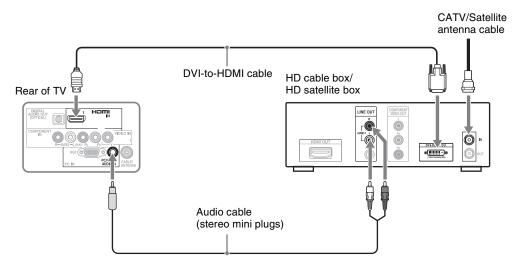
HD Cable Box/HD Satellite Box

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 located on the back of your TV.

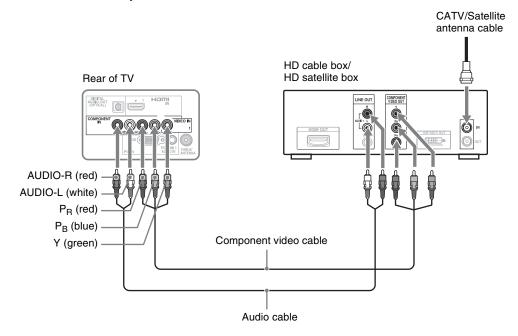
■ Shown with HDMI Connection



■ Shown with DVI Connection



■ Shown with Component Connection

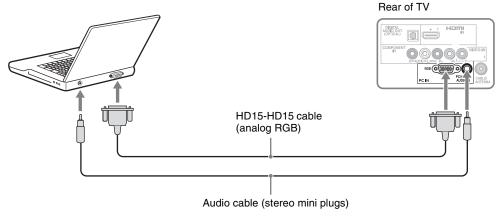




• If your equipment has a DVI output and not an HDMI output, connect the DVI output to the HDMI IN 1 (with DVI-to-HDMI cable or adapter) and connect the audio output to the AUDIO IN of PC IN. For details, see page 10.

PC

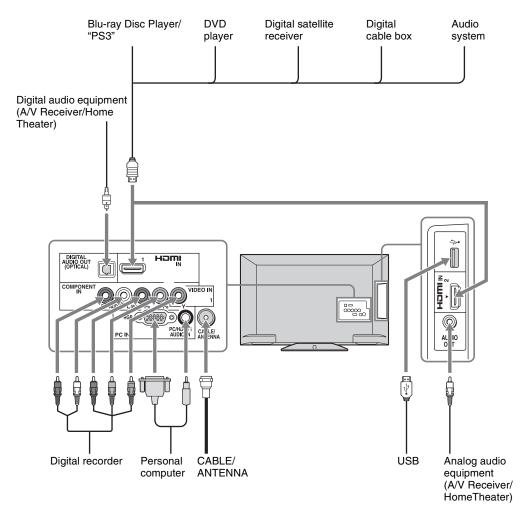
Use the TV as a monitor for your PC by connecting an HD15-HD15 cable connection as shown below. This TV can also be connected to a PC with a DVI or HDMI output. (Refer to the separate Quick Setup Guide.)





• Connect the PC IN jack to the PC using an HD15-HD15 cable with ferrite core (analog RGB) and audio cable (page 10).

Connecting Other Equipment





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

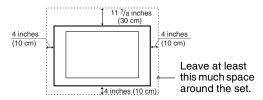
When Installing the TV Against a Wall or Enclosed Area

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

Installed with stand 111 7/8 inches (30 cm) 4 inches (10 cm) 2 3/8 inches (6 cm)

Leave at least this much space around the set.

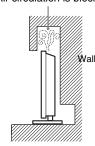
Installed on the wall

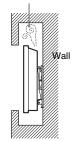


Never install the TV set as follows:

Air circulation is blocked.









 Inadequate ventilation can lead to overheating of the TV and may cause TV damage or cause a fire.

Securing the TV



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.

Preventing the TV from Toppling

- 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 all AC power cords and connecting cables so that they are not accessible to curious children.

Recommended Measures to Secure the TV

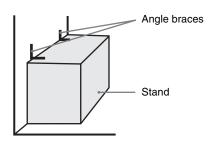
Consider the following measures when securing your TV to a TV stand (not supplied).

1 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.

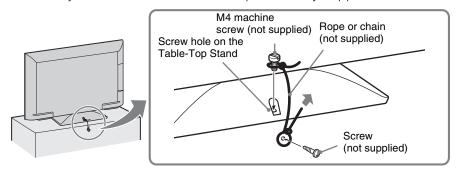


2 Secure the TV to the stand.

Use the optional hardware listed below (not supplied):

- M4 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.

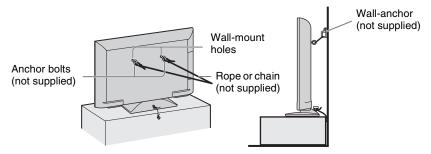


The length of the M4 machine screw differs depending on the rope or chain diameter. Please refer to below illustration.



3 Anchor the TV to the wall.

Anchor the TV to the wall by using bolts, wall anchor and chain (or rope).





- Contact Sony Customer Support to obtain the optional Support Belt Kit by providing your TV model name.
 - For United States call: 1-800-488-7669 or visit: http://www.sony.com/accessories For Canada call: 1-877-899-7669
- Securing the TV to the stand without securing the TV and the stand to the wall provides minimum
 protection against the TV toppling over. For further protection, be sure to follow the three
 measures recommended.

Running Initial Setup

During initial setup, you will perform the following:

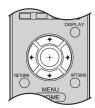
- Set the language for the On Screen Display (OSD) text
- Choose your viewing environment
- Scan for digital and analog channels

Complete your cable connections before beginning the **Initial Setup**. Refer to the Quick Setup Guide (supplied) for sample connection diagrams.



1 Turn on the TV.
The **Initial Setup** screen will appear.

2 Use the remote control buttons described below to navigate through the Initial Setup.



♦/♦/♦ buttons:

Allow you to navigate and highlight options where applicable.

+ button:

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

3 Auto Program will scan for available channels from the signal source directly connected to the TV's CABLE/ANTENNA input. Follow the help text provided on the screen to run the **Auto Program**.

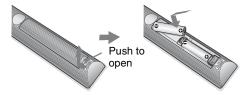


- If you cancel the **Auto Program**, any channels you have selected are not registered. To rescan for available channels, run **Auto Program**.
- Connect either your cable or antenna to the TV (you can connect both using an A-B RF switch (not supplied)); for more details see page 12.

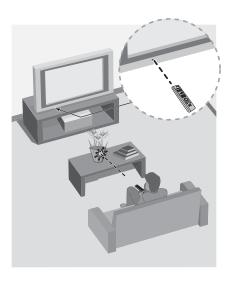
Using the Remote Control

To Insert Batteries into the Remote Control

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



Guidelines to follow



- 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.

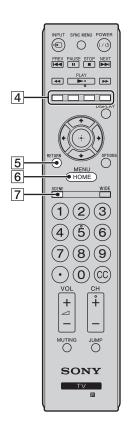
Remote Control Button Description



Butt	ton	Description
1	INPUT	Press to display the list of External Inputs and TV mode. Press repeatedly to toggle through the inputs. See page 31.
2	SYNC MENU	Press to display the BRAVIA Sync Menu and then select connected HDMI equipment from HDMI Device Selection .
3	Equipment Control	These buttons are used to control the equipment connected to the TV by using the 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.
		I◄◄ (PREV): Press to replay the current program from the previous chapter mark. II (PAUSE): Press to pause playback. II (PAUSE): Press to stop playback. II (NEXT): Press to advance forward to the next chapter mark. II (PAUSE): Press to play a program in fast rewind mode. II (PLAY): Press to play a program at a normal speed. II (PLAY): Press to play a program in fast forward): Press to play a program in
		fast forward mode.



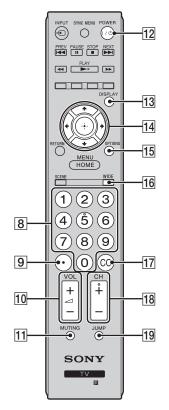
• The 5, ▶ and CH + buttons have a tactile dot. Use them as a reference when operating the TV.



Button	Description
4 Colored buttons	When the colored buttons are available, an operation guide appears on the screen.
5 RETURN	Press to go back to the previous screen or exit from the screen when displaying menu items and settings.
6 HOME/ MENU	Press to display the menu with TV functions and settings. See "Using the Menus" on page 33.
7 SCENE	Optimizes picture and sound quality by selecting the following items. Cinema: Delivers picture and sound just like in a theater. Sports: Presents realistic pictures and sound just like in a stadium. Photo: Reproduces the texture and color of a printed photo. Music: Lets you experience dynamic and clear sound just like at a concert. Game: Broadens your game-playing experience with superb picture and sound quality. Graphics: Eases prolonged monitor viewing with clearer detailed pictures. General: No optimized picture and sound quality for any scene. Auto: Automatically optimizes picture and sound quality according to the input source.

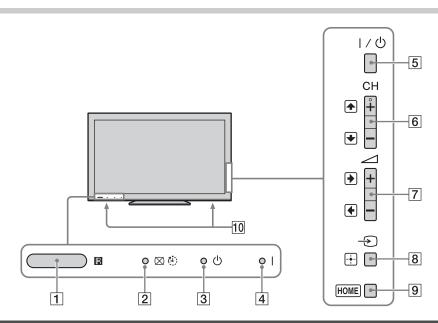


• When you set Scene Select to Photo, Music, Cinema, Game or Sports, Sound Mode is automatically set to Standard.



But	Button Description		
8	0-9	Press 0-9 to select a channel.	
9	\odot	Use with 0-9 to select digital channels. For example, to enter 2.1, press ②, ⊙, ① and ⊕.	
10	VOL (∠) +/-	Press to adjust the volume.	
11	MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.	
12	POWER I/Ů	Press to turn on and off the TV.	
13	DISPLAY	Press once to display the banner with channel/ program information you are watching. The banner will time out in a few seconds or press again to exit.	
14	4/₹/4/→	Press ♠/♣/♠/♦ to move focus/highlight. Press ⊕ to select/confirm an item.	
15	OPTIONS	Press to display a list of convenient functions and menu shortcuts. The options menu items vary based on current input and content.	
16	WIDE	Press repeatedly to cycle through the available Wide Mode settings. See page 29.	
17	CC	Press to cycle through the available settings for Closed Captions (CC): On, Off, and On when Muting.	
18	CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either CH +/	
19	JUMP	Press to jump back and forth between two channels and external inputs. The TV alternates between the current/last channel or external input selected.	

TV Controls and Indicators



Item	Description
1 (IR) Infrared Receiver	Receives IR signal from the remote control.
2 ⋈ (Picture Off)/⊕ (Timer) LED	Lights up in orange when the sleep timer is set. Lights up in green when the Power Saving is set to Picture Off .
3 (Standby) LED	Lights up in red when the TV is in standby mode.
4 I (Power) LED	Lights up in green when the TV is turned on.
5 I / $^{\circlearrowleft}$ (Power)	Press to turn on and off the TV.
	Press to scan through channels. To scan quickly through channels, press and hold down either CH –/+. In the menu screen, these buttons serve as up/down buttons.
7 - ⊿ + →	Press to adjust the volume. In the menu screen, these buttons serve as left/right buttons.
8 -∳- → (Input)	Press to display the list of external inputs. Press repeatedly to toggle through the inputs. In the menu screen, this button serves as confirming the selection or setting.
9 HOME	Press to display menu with TV functions and settings (see "Using the Menus" on page 33).
10 Speaker	Outputs audio signal.



- For more information about setting up the external inputs labels, see page 46.
 The CH + button has a tactile dot. Use it as a reference when operating the TV.
 Make sure that the TV is completely switched off before unplugging the power cord.

BRAVIA® Sync™ with Control for HDMI

With the **Control for HDMI** function, **BRAVIA** Sync helps to communicate with **BRAVIA** Sync-compatible equipment using HDMI CEC (Consumer Electronics Control). Use the following settings and tips to help unify control of your connected equipment.

- 1 Press HOME and select Settings, then select the Setup settings.
- 2 Select the HDMI Settings, then highlight Control for HDMI, and set to On.

■ Controlling BRAVIA Sync-Compatible Equipment

To control the equipment by using the remote control, press **SYNC MENU** and select the desired equipment from **HDMI Device Selection**.



■ BD/DVD Player

- Automatically turns the BRAVIA Synccompatible equipment on and switches the input to that equipment when you select it from the Sync Menu.
- Automatically turns the TV on and switches the input to the connected equipment when the equipment starts to play.
- Automatically turns the connected equipment off when you switch the TV to standby mode.

■ AV Amplifier

- Automatically turns the connected AV amplifier on and switches the sound output from the TV speaker to the audio system when you turn the TV on.
- Automatically switches the sound output to the AV amplifier by turning the AV amplifier on when the TV is turned on.
- Automatically turns the connected AV amplifier off when you switch the TV to standby mode.
- Adjusts the volume (VOL +/-) and mutes the sound (MUTING) of the connected AV amplifier through the TV's remote control.

■ Video Camera

- Automatically turns the TV on and switches the input to the connected video camera when the connected video camera is turned on.
- Automatically turns the connected video camera off when you switch the TV to standby mode.



- Control for HDMI (BRAVIA Sync) is only available for the connected Sony equipment that has the BRAVIA Sync or is compatible with Control for HDMI.
- The Control for HDMI settings must be set on both the TV and connected equipment.
 For settings on the connected equipment, refer to their instruction manuals.
- When specific Sony equipment compatible with Control for HDMI (BRAVIA Sync) is connected, BRAVIA sync is automatically activated on the equipment.

Using PIP Feature

PIP (picture in picture) displays a picture from a connected PC in full screen, and a TV program or other external input (see below "To Enter PIP" table) in an inset window. (**Closed Captions (CC)** is not available with **PIP** mode.)

Main Window (PC)



Sub Window (Location of the Sub Window can be moved by pressing ♠/♣/♠/♠.)

To Enter PIP

PIP Supported Inputs	
In main window	In sub window
PC	TV channel (CABLE/ ANTENNA), VIDEO IN 1, HDMI IN 1/2 (video timing)
HDMI IN (PC timing)	TV channel (CABLE/ ANTENNA), VIDEO IN 1, COMPONENT IN

- 1 Press OPTIONS while in the PC mode.
- 2 Select **PIP** from the **OPTIONS** menu.
- **3** The sub window will appear.

■ To Change Channels

You can change the channel of the sub window by pressing **CH +/-** or entering the channel number using the **0-9** numeric buttons.

■ To Exit from PIP

- 1 Press OPTIONS.
- 2 Press ♠/♥ to highlight Exit PIP and press ⊕ to exit to full PC screen.

■ To Swap Audio

You can swap audio between the main and sub window.

- 1 Press **OPTIONS**.
- 2 Press **↑/♦** to highlight **Audio Swap** and press (+).
- 3 Press ♠/♦ to highlight the window to be audible, then press ⊕.

Favorites

Your favorite channels and external inputs can be accessed by pressing the **HOME** button once they are added to the list.

- 1 Press **HOME**.
- 2 Press ♠/♦ to select Favorites, then press ⊕.



The favorites list appears.

3 Press **♦**/**♦** to select a channel or input, then press (+).

■ To add to Favorites

While tuned to the channel you want to watch or viewing connected equipment, press **HOME** and select **Favorites** to display the list. Highlight **Add to Favorites**, then press (+). Your newly added item will be listed at the top of the list. When you continue to add items beyond the 10th item, the item listed at the bottom of the list will be automatically removed from the list.



- Favorite channels and external inputs can also be added using the OPTIONS button on the remote control.
- Your Favorites list will be cleared each time you run the Auto Program.

Wide Mode

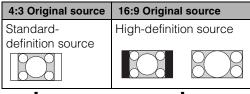
The **Wide Mode** feature allows you to select the screen display of your preference. Based on the original signal source, you may see black bars around the picture or just on the both sides of the screen. Sometimes you will see the picture filled the full screen. This is due to the signals your TV receives.

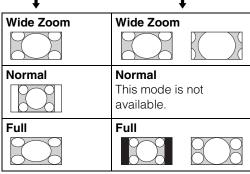
You can manually select available **Wide Mode** settings as you watch your TV by
pressing the **WIDE** button on your remote
control or you can set your TV to **Auto Wide**.

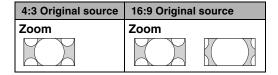
■ To set Auto Wide

Press **HOME** and select **Settings**, then select the **Screen** settings.
Select **Auto Wide** and set to **On**.

■ To change the Wide Screen Mode
Press WIDE repeatedly to cycle through
the available modes.







Normal is available with 480i or 480p sources only.

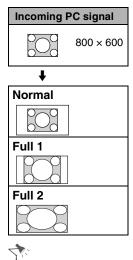
Wide Mode with PC

Wide Mode is also available for the **PC** settings. When a PC is connected to the TV and **PC** input is selected, you can change the PC Screen settings.



■ To change the Wide Screen Mode for PC Timing

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



 Use the Auto Adjustment to adjust the display position and phase of the picture when the TV receives an input signal from the connected PC.

Inputs

Press **INPUT** to display the **Input** menu and toggle through the external inputs to select your video signal for viewing including the TV mode. The inputs list consists of TV mode and other equipment connected to the TV.

You can label your external inputs to identify them easily.

■ To Manage on Input

Press **HOME** and select **Settings**, then select the **Setup** settings. Select the **Manage Inputs** option in **AV Setup**. Press ♠/♦ to highlight the video input (**HDMI 1-2**, **Video 1**, **Component**, **PC**) to which you want to assign a label; press ⊕ to select the input of your choice.

■ To Manage Label

Press ◆/◆ to highlight one of the displayed labels that corresponds to your connected equipment, then press ⊕.

■ To Manage Enable

- 1 Press **♦/** to select enable column.
- 2 Press ♠/♦ to select Auto, Always or Off when Auto is selected. The selected input will be listed always.

Playing back Photo/ Music (KDL-46/ 40BX450 only)/Video via USB

You can enjoy photo/music/video files stored in a Sony digital still camera or camcorder through a USB cable or USB storage device on your TV.

- 1 Connect a supported USB device to the TV.
- 2 Press HOME.
- 3 Press ♠/♦ to select Photo, Music (KDL-46/40BX450 only), or Video, then press ⊕.
 The file or folder list appears.
- 4 Press ★/★/★/ to select a file or folder, then press ⊕.
 When you select a folder, select a file, then press ⊕.
 Playback starts.

■ Photo Playback Auto Start

The TV automatically displays the thumbnail view screen when the TV is turned on and a digital still camera or other device storing photo files is connected to the USB port then turned on (page 45).

Notes when playing back files

- While the TV is accessing the data on the USB device, observe the following:
 - Do not turn off the TV or connect USB device.
 - Do not disconnect the USB cable.
 - Do not remove the USB device.

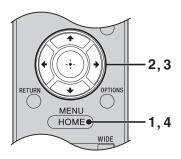
The data on the USB device may be damaged.

- Sony will not be held liable for any damage to, or loss of, data on the recording media due to a malfunction of any connected devices or the TV.
- Playback does not start automatically if the TV is turned on after connecting the digital still camera or other device to the USB port.
- USB playback is supported for the following photo file formats:
 - JPEG (JPEG format files with the extension ".jpg" and conforming to DCF 2.0 or Exif 2.21)
- (KDL-46/40BX450 only)
 USB playback is supported for the following music file format:
 - MP3 (files with the extension ".mp3" that have not been copyrighted)
- USB playback is supported for the following video file format:
 - MPEG1, MPEG2 (files with the extension ".mpg")
- Photo Playback Auto Start works only for photo files in the newest digital still camera folder (DCF-compliant, highestnumbered "DCIM" folder).
- Playback may not start automatically when some digital still cameras (such as cameras with internal memory) are connected.
- The file name and folder name support only English.
- When you connect a Sony digital still camera, set the camera's USB

- connection mode to "Auto" or "Mass Storage." For more information about USB connection mode, refer to the instructions supplied with your digital camera.
- Use a USB storage device that is compliant with USB Mass Storage Class standards.
- The file system on the USB device supports FAT16, FAT32 and NTFS.

Navigating through TV Menus

The **HOME** button allows you to access a variety of TV settings and USB media files.



- 1 Press MENU on the remote control to display the menu options.
- 2 Press ♠/♣/♠/→ to navigate on the menu or adjust the settings.
- **3** Press (+) to select or confirm.
- 4 Press MENU to exit.



The Favorites feature provides quick access to your frequently used items, such as preferred TV channels or external inputs (e.g. game console, DVD player). For details, see page 29.





(KDL-46/ 40BX450 only) The **Photo**, **Music** (KDL-46/40BX450 only), and **Video** icons organize your photo, music, and video files from Sony USB connected equipment. Be sure to select the correct icon when accessing files. Refer to the feature section for more information on these icons (page 31).





The **Settings** icon contains all of the necessary configurations to customize your TV settings. The options you can select may vary. Unavailable options are grayed out or not displayed.

Picture: adjust the picture on your TV to fit your viewing preference.

Sound: customize your sound settings to suit your audio preference. You can also change the settings to output the sound to your connected audio equipment.

Screen: adjust the size and shape of the images you see on the screen.

Channel: navigate your favorite channels and inputs and select the signal type, as well as autoprogram channels. You can also customize the channels you see and the labels assigned to them.

Parental Lock: set the password and limit access to programming based on rating levels. You can also block channels and inputs.

Setup: modify and customize a variety of general setting options.

Eco: changes the settings related to power consumption.

■ Using the Picture Settings

Option	Description	
		tions selected in the Scene Select settings (page 23). When a set to General , the options below can be selected.
picture viewing	Vivid	Select for enhanced picture contrast and sharpness.
	Standard	Select for standard picture settings. Recommended for home entertainment.
	Custom	Select to store your preferred settings.
	Cinema	For film-based content. Suitable in a theater-like environment.
	Photo	For standard viewing of photographs.
	Sports	Optimizes picture quality for viewing sports.
	Game	For standard picture suitable for games.
	Graphics	Optimizes picture quality for viewing graphics.
Reset	Resets the current Picture settings to their defaults, except Picture Mode .	
Backlight	Adjust to brighten or darken the backlight.	
Picture	Adjust to increase or decrease picture contrast.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increa	se or decrease the green tones.
Sharpness	Adjust to sharpe	en or soften the picture.
Color	Cool	Select to give the white colors a bluish tint.
Temperature	Neutral	Select to give the white colors a neutral tint.
White adjustment	Warm 1/Warm 2	Select to give the white colors a reddish tint. Warm 2 gives a redder tint than Warm 1 .
Noise Reduction	Select to reduce the picture noise level. Select from Auto, High, Medium, Low and Off.	
MPEG Noise Reduction	Select to reduce the picture noise in MPEG-compressed videos. This is effective when viewing a DVD or digital broadcast. Select from High , Medium , Low and Off .	
CineMotion	·	red picture movement and reduces picture blur and graininess ontent. Select Auto to represent original film-based content as

Option	Description	
Advanced	Reset	Resets the advanced settings to the default values.
Settings	Adv. Contrast Enhancer	Automatically adjusts backlight and contrast to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark scenes, and will increase the contrast distinction of the darker picture scenes. Select from High , Medium , Low and Off .
	Black Corrector	Enhances black areas of the picture for stronger contrast. Select from High , Medium , Low and Off .
	Gamma	Adjusts the balance between bright and dark areas of the picture.
	Clear White	Emphasizes white colors. Select from High , Low and Off .
	Live Color	Makes colors more vivid. Select from High , Medium , Low and Off .
	White Balance	Adjusts the color temperature in detail.



 Available Picture options, including options in Advanced Settings depend on Scene Select and Picture Mode.

♦ Using the Sound Settings

Ontion	Description				
Option Sound Mode	Description				
Customized	Sets a sound mode. Sound Mode includes options best suited for video and photographs, respectively. The available options depend on the scene select				
sound listening	settings.				
ocarra notorning	Dynamic	Enhances treble and bass.			
	Standard	Standard sound optimized for home use.			
	Clear Voice	Suitable for spoken dialog.			
		· · · · · · · · · · · · · · · · · · ·			
-	Custom	Select to store your preferred settings.			
Reset		rent Sound settings to their defaults, except MTS Audio , lio and Speakers .			
F		<u> </u>			
Equalizer	Adjust allows you to select your frequency response curve. Select Re reset the Equalizer settings to the default values.				
Balance					
		nasize left or right speaker balance.			
Steady Sound	Select On to stabilize the volume across all programs and commercials. Select Off to disable this function.				
Volume Offset					
	Adjust the volume level of the current input relative to other inputs.				
Surround	Allows you to select the suitable surround effects depending on the genre of TV program (movie, sport, music, etc.) or video game. The available options				
		depend on the scene select setting.			
	On/Off Select On to optimize the sound quality to enjoy the effect				
	011/011	the Surround option and to create a virtual surround sound			
		using the 2ch speaker.			
	Cinema/Off	Provides surround effects just like the high-grade audio			
		systems found in movie theaters.			
		This option is available when you select Cinema in the Scene			
		Select setting.			
	Music/Off	Provides surround effects that make you feel like you are			
		surrounded by sound as in a music hall.			
		This option is available when you select Photo or Music in			
		the Scene Select setting.			
	Sports/Off	Provides surround effects that make you feel like you are			
		watching a live sports contest. This option is available when you select Sports in the Scene			
		Select setting.			
	Game/Off	Provides surround effects that enhance game sound.			
	541110/011	This option is available when you select Game in the Scene			
		Select setting.			
Bass Booster	Produces a ful	ler sound for more impact, by emphasizing the bass sounds.			
		1 , , 1 3			

Option	Description			
MTS Audio Stereo Enjoy stereo,		Select for stereo reception when viewing a program broadcast in stereo.		
bilingual and mono programs	Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. If no SAP signal is present, the TV remains in Stereo mode.		
	Mono	Select for mono reception. Use to reduce noise during weak stereo broadcasts.		
Alternate Audio Digital channels only	streams. The pr	Select among the available options to switch among the alternate audio streams. The program you are tuned to may be broadcasted in a different language in the alternate audio streams.		
Speakers TV Speaker		Select to use the TV speakers.		
	Audio System	Select to use an external audio system for the TV sound. By selecting this option you are disabling the TV speakers.		
Audio Out	Variable	Adjusts the volume with the TV's remote control, when using an external audio system.		
	Fixed	Adjusts the volume using the connected audio system's remote control.		
HDMI/DVI Audio	Sets the audio signal source for HDMI/DVI input.			
Source Auto Automatically sets the audio signal so video signal.		Automatically sets the audio signal source based on the video signal.		
	HDMI Audio	Sets the HDMI input as the audio signal source.		
	PC Audio	Sets the PC/HDMI audio input as the audio signal source.		



- MTS Audio is only available for analog programs.
 Alternate Audio is only available if the program is broadcast with alternate audio streams.
- You can also access Sound Mode, MTS Audio and Alternate Audio by using the OPTIONS button on the remote control.

Using the Screen Settings

•			
Option	Description		
Wide Mode	Wide Zoom	Fills the screen with minimum distortion.	
	Normal	Select to display 4:3 picture in original size when the original source is 4:3.	
	Full	Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (Standard definition source). When the original source is 16:9 (High-definition source), select this mode to display the 16:9 picture in its original size.	
	Zoom	Select to enlarge the original picture without distorting the aspect ratio.	
Auto Wide	On	Select On to automatically change Wide Mode setting based on the content.	
	Off	If frequent screen changes are disturbing to you, select Off . Choose one of the Wide Mode options when this function is set to Off .	
4:3 Default Select the default	Wide Zoom	Enlarges the 4:3 picture to fill the 16:9 screen, displaying as much of the original image as possible.	
Screen Mode to	Normal	Select to display the 4:3 picture in its original size.	
use for 4:3 sources	Off	Select to continue using the current Wide Mode setting when the channel or input is changed.	
Auto Display Area	Automaticall	y adjusts the picture to the most appropriate display area.	
Display Area	Full Pixel	Displays pictures in their original size when parts of the picture are cut off (available depending on the TV model).	
	+1	Displays pictures in their original size. This option is only available for Digital TV and HDMI input signals (non 1080i and 1080p video formats).	
	Normal	Displays pictures in their recommended size.	
	-1	Enlarges the picture so that the edges are outside the visible display area.	
Horizontal	Allows you to	o move the position of the picture left and right. (Available in Wide	
Center	Zoom and Zoom.)		



- Normal in the 4:3 Default setting is not available when you are watching a 720p, 1080i or 1080p source.
- If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for 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.
- 4:3 Default is not available if Auto Wide is set to Off.

Option	Description				
Vertical Center	Allows you to move the position of the picture up and down. (Available in Wide				
	Zoom and Z		position of the protein of the dominal (managed in 11120		
PC Settings	When a PC is connected to the TV and the PC input is selected, the PC settings screen appears instead of the Screen settings. You can also select the PIP feature which allows you to view two pictures simultaneously from OPTIONS button (page 28).				
	Wide Mode	Normal	Select to display in the original image size.		
		Full 1	Select to enlarge the picture to fill the display area, keeping its original aspect ratio.		
		Full 2	Select to enlarge the picture to fill the display area.		
	Reset	Resets all PC settings to the default values.			
	Auto	Select to automatically adjust the display position and phase of			
	Adjustment	ment the picture when the TV receives an input signal from the connected PC. Note that Auto Adjustment may not work well with certain input signals. In such cases, manually adjust the options below.			
	Phase	Adjust after Pitch to fine tune overall sharpness.			
	Pitch	Adjust uneven sharpness on screen.			
	Horizontal Center	Allows you to move the position of the picture left and right.			
	Vertical Center	Allows you	to move the position of the picture up and down.		



- For the PC Input Signal Reference Chart, see page 50.
 Auto Adjustment, Phase and Pitch are not available with PC signal connected to HDMI input.

☐ Using the Channel Settings

Option	Description	
Signal Type	Cable	Select if you are receiving cable channels via Cable TV provider.
	Antenna	Select if you are using an antenna.
Auto Program	Automatically	sets up the channel list on the TV for all receivable channels.
	1 Select Au	to Program.
	2 Select OK	to start Auto Program.
Add Digital	1 Select Ad	d Digital Channels.
Channels	2 Select OK	to add digital channels.
Show/Hide Channels	Allows you to s buttons.	show or hide channels that appear when you use the CH +/-
		to scroll through the channels until you find the channel you now or hide. Then press (+) to select it.
	2 Press 4 / ◆ (+) to sel	to determine if the channel will be shown or hidden. Then press ect it.
Edit Channel	Allows you to assign labels (such as station call letters) to channel numbers.	
Labels		to scroll through the channel numbers. Then press \oplus to channel number that you want to assign a label.
	move to the	to scroll through the label characters (A-Z, 0-9, etc.). Press → to ne next character. Repeat the previous steps to add up to seven s to the label. When finished, press ⊕.
Analog Fine Tune	slight tuning a	ine-tune the selected analog channel manually if you feel that a djustment may improve picture quality. Select Auto to adjust to opriate analog channel.



- You should run **Auto Program** after changing the **Signal Type** setting.
- Running Auto Program will clear the Favorites list.
- Channels that you set to be hidden can be accessed by the 0-9 and buttons.
 You can set channels to be hidden that are automatically set in Auto Program.

☐ Using the Parental Lock Settings

Option	Description			
Password	The Parental Lock settings allow you to set up the TV to block programs			
		r content and rating levels. Use 0-9 on the remote control to		
		password. The first time you create a password, confirm the		
	password by ent	ering it again.		
Change	Select to change your password.			
Password				
Country	U.S.A.	Select to use U.S.A. ratings (page 43).		
	Canada	Select to use Canadian ratings (page 44).		
Rating	Off	Turn Parental Lock off. No programs are blocked from		
		viewing.		
	Child	Maximum ratings permitted are:		
		U.S.: TV-Y, TV-G, G		
		Canada: C, G, 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:		
	J	U.S.: TV-14, PG-13		
		Canada: 14+, 13 ans+, TV-14		
	Custom	Select to set ratings manually.		
		U.S.: See page 43 for details.		
		Canada: See page 44 for details.		
Downloadable	Off	Turn Downloadable U.S. Rating off. No programs that contain		
U.S. Rating		downloadable ratings are blocked from viewing.		
(Available only	Custom	Select to block programs based on downloadable ratings.		
in U.S.A.	Clear All	Select to clear the entire downloadable rating system.		
where advanced		3 ,		
ratings exist)				
Unrated	Allow Allows programs and movies that are broadcasted without a			
(Available only	rating.			
when Country is	Block Blocks all programs and movies that are broadcasted without			
set to U.S.A.)		a rating.		
Channel Block	Allows you to blo	ck channels regardless of program ratings.		
	To View a Blocked Channel			
	Press (+) when	tuned to the blocked channel then enter the password.		
External Input		ck external inputs regardless of program ratings.		
Block	To View a Blocked External Input			
		tuned to the blocked input then enter the password.		
		·		



- You need your password for any future access into the Parental Lock settings. If you lose your password, see "Lost password" on page 61.
- Selecting Clear All will delete the current Downloadable U.S. Rating menu and the menu will
 no longer be available until the TV is tuned to a channel that contains downloadable ratings.
- If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcasted from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

US Models: Selecting Custom Parental Lock Rating Options

To select custom rating options for the U.S., select **U.S.A.** in the **Country** setting (page 42).

Option	Description			
Movie Rating	G	All children and general audience.		
	PG	Parental guidance suggested.		
	PG-13	Parental guidance for children under 13.		
	R	Restricted viewing, parental guidance is suggested for children under 17.		
	NC-17 and X	No one 17 or under allowed.		
TV Rating	Age-Based Rat	ings		
Block programs	TV-Y	All children.		
by their rating, content or both	TV-Y7	Directed to children age 7 and older.		
Content or both	TV-G	General audience.		
	TV-PG	Parental guidance suggested.		
	TV-14	Parents strongly cautioned.		
	TV-MA	Mature audience only.		
	Content-Based	Ratings		
	FV	Fantasy violence.		
	D	Suggestive dialogue.		
	L	Strong language.		
	S	Sexual situations.		
	V	Violence.		



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

Canadian Models: Selecting Custom Parental Lock Rating Options

To select custom rating options for Canada, select **Canada** in the **Country** setting (page 42).

Option	Description		
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.	
French Rating	G	General programming.	
	8 ans+	Not recommended for young children.	
	13 ans+	Not recommended for ages under 13.	
	16 ans+	Not recommended for ages under 16.	
	18 ans+	Programming restricted to adults.	
U.S.A. Rating	See "US Models" on page 43 for details.		

Viewing Blocked Programs

You can view blocked programs by entering your password. Press \oplus when tuned to a blocked program, then enter the password. This temporarily deactivates the parental control feature. To reactivate the **Parental Lock** settings, turn off the TV. When the TV is turned on again, your **Parental Lock** settings are reactivated.



Using the Setup Settings

Option	Description				
USB Auto Start	Select On to st	nera or other dev		lly when the TV is turned on and a photo files is connected to the USB	
Closed Captions (CC)		select from sever closed captioni		on modes (for programs that are	
	CC Display	On	Closed Caption	ons (CC) is turned on.	
		Off	Closed Caption	ons (CC) is turned off.	
		On when Muting	Closed Caption is muted.	ons (CC) is turned on when the TV	
	Analog CC	Allows you to options.	select basic ar	nalog (EIA-608) closed caption	
		CC1, CC2, CC3, CC4	Displays a printed version of the dialogue or sound effects of a program. (Should be set to CC1 for most programs.)		
				ork/station information presented alf or the whole screen (if available).	
	Digital CC	When the digital closed caption service is available, select f the Service 1-6 or CC1-4 .			
	Digital CC Options	Allows you to make additional settings for digital closed caption options. Select As Broadcast or Custom . The Custom option is available on the Digital CC setting.			
		Custom	Allows you to customize the following settings:		
			Character Size	Small, Standard, Large	
			Character Style	Style 1-7	
			Character Color	Color 1-8	
			Character Opacity	Solid, Translucent	
			Edge Type	None, Raised, Depressed, Outline, Left Shadow, Right Shadow	
			Edge Color	Color 1-8	
			Background Color	Color 1-8	
			Background Opacity	Solid, Translucent	



 You can turn on Closed Captions (CC) options (On, Off or On when Muting) by pressing the CC button on the remote control.

Option	Description		
Info Banner	Displays the information related to the input signal you are watching. Select Small to display minimal channel and program title or select Large to display detailed channel and program information along with the TV icon if you are viewing the TV. This information will appear if it is available from the broadcaster. Info Banner appears on the screen each time the channel and external inputs are changed or when DISPLAY on the remote control is pressed.		
Sleep Timer		inutes (Off , 15 , 30 , 45 , 60 , 90 , or 120) that you would like the TV ore shutting off automatically.	
Initial Setup	If you miss the Initial Setup when you first connect the TV or if you want to scan all receivable channels, select Initial Setup . Follow the instructions on the screen. Some settings such as Picture , Sound , and Parental Lock will not be affected by this Initial Setup . If you wish to return your TV to factory settings, please see the Troubleshooting section on page 61.		
Language		all on-screen settings in your language of choice: English,	
	Español, França	ais.	
Startup Logo	Select On to dis	olay the logo when the TV is turned on. Select Off to disable it.	
AV Setup	Manage Inputs Assigns a name to external equipment. Select Auto to display names only when the equipment is connected, or Always to display regardless of connection status or Off to disable input (only for TV and PC inputs).		
	Video1/ Component Selection	Select Auto to have the TV detect and switch between the Video 1 or Component when Video 1 or Component is connected.	



- You can assign following labels for each input (except TV):
 - -, Cable, Satellite, VCR, DVD/BD, Home Theater, Game, Camcorder, Digital Camera, PC, Edit (except PC IN)
 - -, Edit (for PC IN)
- "-" indicates that no labels are assigned.
- If you select **Edit**, you can edit video labels. Follow the same steps for **Edit Channel Labels** on page 41.

Option	Description	Description				
HDMI	Communicates with equipment compatible with the Control for HDMI function.					
Settings	Control for HDMI	For specific S	rations of the TV and the equipment. ony equipment compatible with Control for HDMI , applied automatically to the connected equipment on .			
	Device Auto Power Off	Select On to have your connected equipment with Control for HDMI function 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 .				
	TV Auto Power On	equipment wi	control your TV's power on from your connected th Control for HDMI function. Select Off to disable This feature is available when Control for HDMI is			
	Device List	Displays a list	t of equipment with Control for HDMI function the TV.			
	Device Control Keys	Select button functions of the TV's remote control to operate the connected equipment.				
		None	Deactivates the control by the TV's remote control.			
		Normal	Enables basic operations, such as navigation buttons (up, down, left or right, etc.).			
		Tuning Keys	For basic operations and operation of channel-related buttons, such as CH +/- or 0-9 , etc. Useful when you control a tuner or set-top box, etc; via the remote control.			
		Menu Keys	For basic operations and operation of the HOME/ OPTIONS buttons. Useful when you select menus of a BD player, etc; via the remote control.			
		Tuning and Menu Keys	For basic operations and operation of channel-related buttons and HOME/OPTIONS buttons.			
	connected to oprovides acce connected equipments.	display the De ss to the Hom elipment with Contro	quipment supporting Control for HDMI is vice Control options. The Device Control option e (Menu), Options and Content List of your our TV remote control. ol for HDMI does not support the Device Control p on the connected equipment.			
Picture Adjustments Lock	Select Lock so r	no adjustment	can be made to items grayed out. nent to any of the Picture settings.			

Option	Description	
Product Support	Contact Sony	Sony contact information is available on this screen for your convenience. TV specific information such as Model Name, Serial Number, Software Version and downloadable ratings (if available from the TV) are displayed here.
	Signal Diagnostics	Press to display the diagnostics information for the current signal.



• Favorite channel list will be cleared each time you run the **Initial Setup**.

Using the Eco Settings

Option	Description	
Reset	Resets the current Eco settings to the default values.	
Power Saving	Select from Off , Low , High , Picture Off to adjust your TV's power consumption. By selecting the High option, you will reduce the power consumption more than the other available settings. While Picture Off is set, pressing VOL +/- or MUTING buttons will not disable this function. Press other buttons to disable it.	
Idle TV Standby	Select to automatically power off the TV after 1h , 2h , or 4h when no buttons are pressed on the remote control or the TV. Select Off to disable this function.	
Auto Shut Off	Select On to automatically power off the TV when no input signal is detected for a certain period of time. Select Off to disable this function.	

PC Input Signal Reference Chart for PC and HDMI IN

After connecting the PC to the TV, set the output signal from the PC according to the chart below.

Resolution						
Signals	Horizontal (Pixel)	×	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	×	480	31.5	60	VGA
SVGA	800	×	600	37.9	60	VESA Guidelines
XGA	1,024	×	768	48.4	60	VESA Guidelines
WXGA	1,280	×	768	47.4	60	VESA
	1,280	×	768	47.8	60	VESA
	1,360	×	768	47.7	60	VESA
SXGA	1,280	×	1,024	64.0	60	VESA
HDTV*	1,920	×	1,080	67.5	60	CEA-861*

^{*} The 1080p timing when applied to the HDMI input will be treated as a video timing and not PC timing. This affects **Picture** settings and **Wide Mode** settings. To view PC content set **Scene Select** to **Graphics**, **Wide Mode** to **Full**, and **Display Area** to **Full Pixel**.



- 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.
- Your PC must support one of the above PC input signals to display on the television.
- In plug and play, signals with a 60 Hz vertical frequency will be detected automatically. (PC reboot may be necessary.)

Using a Wall-Mount Bracket

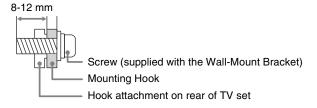
Your TV can be mounted on a wall using a Wall-Mount Bracket (not supplied) out of the box as packaged. Some larger size TV may require removing the Table-Top Stand; refer to the instructions provided with the TV.

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

For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket designed for your TV and the installation should be performed by a Sony dealer or licensed contractor.

- Follow the instruction guide provided with the Wall-Mount Bracket for your model. 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 screws are designed as indicated by illustration 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.



• Read the supplied Safety Booklet for additional safety information.

Installing the Wall-Mount Bracket

■ To Customers

Your TV can be wall-mounted using SU-WL500 Wall-Mount Bracket (sold separately).

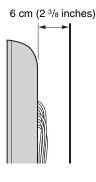
Please provide this installation information as well as the instruction supplied with SU-WL500 Wall-Mount Bracket to your installer.

■ 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.

■ Note when installing

When using the SU-WL500 Wall-Mount Bracket, the space between the wall and the TV will be 6 cm (2 3/8 inches). Use this space to route cables to the TV.



For SU-WL500

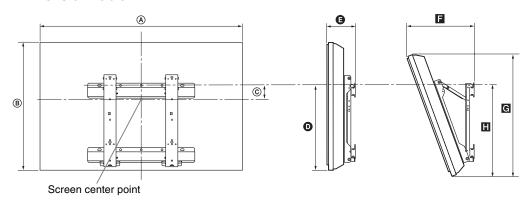
Step 1: Check the parts required for the installation

Open the Wall-Mount Bracket package and check the contents for all required parts along with the Instructions.

Step 2: Decide on the installation location

Decide where you want to install your TV. Refer to the TV installation dimensions table. Refer to the Instructions for SU-WL500.

■ Dimension Table



Unit: mm	TV Dimensions		Screen	Length	for each	mounti	ng angle		Weight	
(inches)			center dimensions	Angl	e (0°)	A	ingle (20)°)		
TV Model	A	B	©	0	(8	G		TV	×4
KDL-46BX451 KDL-46BX450	1,112 (43 ⁷ / ₈)	675 (26 ⁵ / ₈)	88 (3 ¹/₂)	426 (16 ⁷ / ₈)	151 (6)	359 (14 ¹ / ₄)	640 (25 ¹/₄)	460 (18 ¹/ ₈)	16.0 kg (35.3 lb.)	64.0 kg (141.2 lb.)
KDL-40BX451 KDL-40BX450	980 (38 ⁵ / ₈)	601 (23 ³ / ₄)	122 (4 ⁷ / ₈)	427 (16 ⁷ / ₈)	151 (6)	334 (13 ¹ / ₄)	566 (22 ³/ ₈)	460 (18 ¹/ ₈)	12.8 kg (28.2 lb.)	51.2 kg (112.8 lb.)

Figures in the above table may differ slightly depending on the installation.

CAUTION

The wall that the TV will be installed on should be capable of supporting a weight of at least four times that of the TV. Refer to your TV's operating instructions for its weight.

Step 3: Install the Base Bracket on the wall

Refer to the Instructions for SU-WL500.

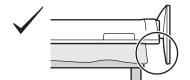
Step 4: Prepare the TV for wall mount installation

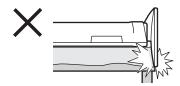
Follow the steps below to prepare for installing the TV.

- **1** Disconnect all the cables from the TV.
- **2** Detach the Table-Top Stand from the TV.
 - Place the TV with its screen facing down on a level and stable surface covered with a thick and soft cloth.



• Be careful not to hit the Table-Top Stand against the edge of the surface when placing the TV with its screen facing down.





② Remove the screws guided by the arrow marks → and ← of the TV. Do not remove any other screws from the TV.

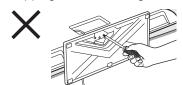






• Hold the Table-Top Stand with one hand to avoid it dropping when detaching.





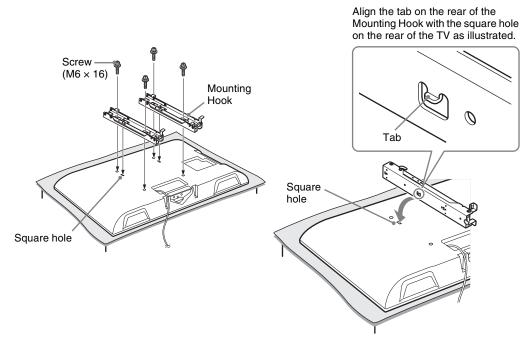
• Before attaching the Wall-Mount Bracket, hang the AC power cord down behind the TV.



3 Secure the Mounting Hook to the rear of the TV.

Determine the screw locations and secure the Mounting Hooks to the rear of the TV. Refer to the "Screw and Hook Locations Diagram/Table" shown below.

- **1** Secure the Mounting Hooks to the rear of the TV using only the supplied screws $(M6 \times 16)$.
- 2 Be sure to tighten the screws with equal torque strength.

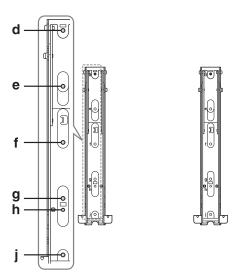


■ Screw and Hook Locations Diagram/Table

TV Model	Screw location	Hook location
KDL-46BX451 KDL-46BX450	d a	b
KDL-40BX451 KDL-40BX450	d, g	b

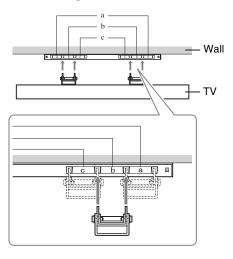
Screw location

When installing the Mounting Hooks on the TV.



Hook location

When installing the TV onto Base Bracket.



4 Adjust the angle of the Mounting Hook.

Refer to the Instructions for SU-WL500.

Step 5: Install the TV on the wall

Refer to the Instructions for SU-WL500.



- When you put the TV back on the Table-Top Stand, reverse the above steps.
- When moving the TV, do not squeeze the bottom of the front panel too tight.
- Remove the screws or install the Mounting Hook on a stable and level surface.

Troubleshooting

Many of the poor pictures and poor sound conditions are related to improper connection of the cables; refer to the Quick Setup Guide provided for connections.

If you have questions, service needs, or require technical assistance related to the use of your Sony TV even after you read this operating instructions manual, contact the following:

For US Support:

http://www.sonv.com/tvsupport or call 1-800-222-SONY (7669)

For Canadian Support:

http://www.sonv.ca/support or call 1-877-899-SONY (7669)

■ Things to consider

- Check the input selection by pressing the INPUT button. You may be watching the wrong input.
- If you cannot hear sound from the TV, you may have accidentally pressed the MUTING button on your remote control; press the MUTING button again or press VOL + to deactivate muting.
- If the remote control is not functioning properly, the batteries may be installed incorrectly or may be low or an object or light may be interfering with the remote control.
- To reset the TV to factory default settings:
- **1** Turn on the TV.
- 2 Press and hold down the ♠ button on the remote, press the 🖰 button on the TV set. (The TV will turn itself off, then back on again.)
- **3** Release the **♠** button when the TV is turn on.

IMPORTANT: The factory reset will clear all of your customized settings including the **Parental Lock** setting.

When the Password is lost or cannot be remembered, enter the master password: 4357. This password clears your previous password and allows you to enter a new password.

Condition	Explanation/Solution
No picture	
No picture	 Check the Power Saving settings (see page 49).
Cannot receive any channels	 Make sure the power cord is connected securely. Turn on the power of the TV. Check cable/antenna connections. Make sure the Signal Type setting is correct for your TV signal source.

Condition	Explanation/Solution
TV is locked to one channel	Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 20 and 41).
Cannot receive or select channels	 Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 20 and 41). To receive or select cable channels, make sure that Signal Type in the Channel settings is set to Cable (see page 41). To receive or select UHF channels over an antenna, make sure Signal Type is set to Antenna.
The TV turns off automatically	 Check if Sleep Timer is activated (see page 46). Check Idle TV Standby in the Eco settings.
No picture from some video sources	 Check the connection between the optional video equipment and the TV. Press INPUT on the remote control (see page 31).
Poor picture	
Picture quality not as good as viewed at the store	 Picture quality depends on the signal content. See Quick Setup Guide (supplied) to display the best possible picture for that signal.
Broadcast HD formats have poor quality	Content and signal quality are controlled by the signal provider. Many HD channels and content are actually upscaled versions of standard-definition broadcasts. The picture is affected by the quality of the signal received, which varies between channel and program.
Double images or ghosts	Check cable/antenna connections.Check the antenna location and direction.
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.)
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.
No color / Dark picture / Color is not correct / The picture is too bright	 Adjust the Picture Mode options in the Picture settings (see page 35). If you set the Power Saving mode to Low or High, it will enhance the black level.
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.
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.

Condition	Explanation/Solution
No sound / Noisy sound	
No sound but good picture	 Check the volume control. Press MUTING or VOL + so that "Muting" disappears from the screen (see page 24). Set Speakers to TV Speakers in the Sound settings (see page 38). 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. Press OPTIONS, highlight and select Alternate Audio, and change the Alternate Audio language (see page 38).
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.
No audio or low audio with Home Theater System	 Set Speakers to Audio System in the Sound settings (see page 38). Set Audio Out to Fixed in the Sound settings (see page 38).
No color / Irregular picture	 Verify that the Video1/Component Selection (see page 46) is set to the current input type in use. We suggest leaving this setting to Auto.
BRAVIA Sync	
Cannot find connected BRAVIA Sync HDMI device	 Make sure that the Control for HDMI is set up on both the TV and the optional device compatible with BRAVIA Sync (see page 27).
Second A/V receiver is not listed on the Device List	Only one A/V receiver may be used with the BRAVIA Sync and Control for HDMI functions at one time (see page 47).
PC Input	
No picture / No signal	 Confirm the PC is correctly connected to the TV with either the PC IN (with an HD15 cable) or with the HDMI IN. Ensure the output signal from the PC is one of the formats listed on page 50. 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 the PC is not in standby or hibernation mode.
Poor Picture	 Adjust the resolution (see page 50). Adjust Pitch and Phase.

Condition	Explanation/Solution
General	
TV screen feels warm	 Due to the thin profile of this television, the heat generated by the LCD panel backlight and supporting electronics will be more noticeable. This is normal operation and not a cause for concern.
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 settings 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 settings (see page 39). Check the Auto Wide option in the Screen settings (see page 39).
Suddenly the picture gets smaller	 The picture gets smaller during the commercials due to the method in which the provider broadcasts their content. When HD content channels switch to SD 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 (see page 29). This setting will remain in effect until you change the channel or input or manually change the Wide Mode again.
"Black box" on screen	 You have selected a text option and no text is available (see page 45). To turn off this feature, set the CC Display option to Off. If you were trying to select closed captioning, select CC1 instead of Text1-4.
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/Blu-ray (or contact your program provider). Programs in 4:3 aspect ratio will have bands on left and right sides of the screen. Programs broadcast 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 (see image on left). Auto Wide will not expand the picture when the black bands on the sides of the screen are added by the broadcaster. You can manually change the Wide Mode to Wide Zoom, or Zoom to fill the screen, which will remain in affect until you change the channel or input or manually change the Wide Mode again.

ondition	Explanation/Solution
Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes	 This is due to the digital compression of the source content used by certain digital broadcasts and DVDs which 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. These signal compressions are more visible and are dependent on the clarity and resolution of the TV.
Remote control does not operate	 To determine if the problem is with the remote control or not, press a button on the TV. 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. Keep the remote control sensor area clear from obstacles. Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps.
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 Show/Hide Channels setting (see page 41).
Some photo, music, or video files are not displaying from my USB equipment	• The accessible file or folder limit in a directory is 1,000 for USB connected equipment. This limit includes non-supported files or just folders. Files or folders are populated based on their time stamps. Photo, music files or folders exceeding the limit will not be displayed.
Photo images appear small in the screen	 Set display size to expanded. Whether or not photo images can or cannot be displayed in full-screen depends on the resolution or aspect ratio of the file.
Photo images or folders take time to display	 Depending on the image dimension, file size, and number of files in a folder, some photo images or folders take time to display. The first time a camera is connected to the TV via USB cable, it may take up to a couple of minutes for the photos to display.
Lost password	• Select the Password settings on the Parental Lock settings, then enter the following master password: 4357. This password clears your previous password and allows you to enter a new password (see page 42).
How to reset the TV to factory settings	 Turn on the TV. While holding down ↑ on the remote control, press I/் on the TV. (The TV will turn itself off, then back on again.) Release ↑. IMPORTANT: The reset will clear all of your customized settings including the Parental Lock setting.

Important Notices

Declaration of Conformity

Trade Name: SONY

Model: KDL-46BX451/KDL-46BX450/KDL-40BX451/

KDL-40BX450

Responsible Party: Sony Electronics Inc.

Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A. Telephone Number: 858-942-2230

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

For Customers in Canada

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

FCC Related Information

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

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

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

Compatible Wall-Mount Bracket Information

Use the following Sony Wall-Mount Bracket with your TV model.

	Sony TV Model No.		
	KDL-46BX451/KDL-46BX450/ KDL-40BX451/KDL-40BX450		
Sony Wall-Mount Bracket Model No.	SU-WL500		

Use with other Wall-Mount Brackets may cause instability and could result in property damages or injury.

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

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 Telecommunications Industry Association (http://www.eiae.org).

To Customers

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

Pour les clients résidant au Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Information sur le support de fixation murale compatible

Utilisez le support de fixation murale Sony ci-dessous correspondant au modèle de votre téléviseur.

Numéro de modèle de téléviseur Sony	
	KDL-46BX451/KDL-46BX450/ KDL-40BX451/KDL-40BX450
Numéro de modèle du support de fixation murale Sony	SU-WL500

L'utilisation d'un autre support de fixation murale peut provoquer l'instabilité de l'appareil et causer des blessures ou des dommages matériels.

Specifications

System	
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)
Channel coverage	Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69 Analog Cable: 1 - 135 / Digital Cable: 1 - 135
Panel system	LCD (Liquid Crystal Display) Panel
Speaker output	KDL-46/40BX450: 6 W + 6 W KDL-46/40BX451: 8 W + 8 W
Input/Output jacks	
CABLE/ANTENNA	75-ohm external terminal for RF inputs
VIDEO IN 1	VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms
COMPONENT IN	YPBPR (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms PR: 0.7 Vp-p, 75 ohms / Signal format: 480i, 480p, 720p, 1080i, 1080p AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms
HDMI IN 1/2	HDMI: Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24bits, Dolby Digital PC Input (see page 50)
AUDIO OUT	500 mVrms (typical)
DIGITAL AUDIO OUT (OPTICAL)	PCM/Dolby Digital optical signal
PC IN	D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive See the PC Input Signal Reference Chart for PC and HDMI IN on page 50.
PC/HDMI IN 1 AUDIO IN	Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms
USB	KDL-46/40BX450: Photo, Music and Video KDL-46/40BX451: Photo and Video

Model name	KDL-46BX451 KDL-46BX450	KDL-40BX451 KDL-40BX450	
Power and others			
Power requirement	110-240 V AC, 50/60 Hz (U.S.A./Canada/Mexico 120 V AC, 60 Hz)		
Power consumption in use	188 W	158 W	
in standby	Less than 0.2 W with 120 V AC and with 240 V AC less than 0.3 W		
Screen size* (inches measured diagonally)	46	40	
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)		
Speaker/Full range (2) (mm) (inches)	40 × 100 (1 ⁵ / ₈ × 4)		
Dimensions* with stand (mm) (inches)	1,112 × 713 × 279 43 ⁷ / ₈ × 28 ¹ / ₈ × 11	980 × 639 × 231 38 ⁵ / ₈ × 25 ¹ / ₄ × 9 ¹ / ₈	
without stand (mm) (inches)	1,112 × 675 × 97 43 ⁷ / ₈ × 26 ⁵ / ₈ × 3 ⁷ / ₈	980 × 601 × 94 38 ⁵ / ₈ × 23 ³ / ₄ × 3 ³ / ₄	
wall-mount hole pattern (mm)	300 >	× 300	
wall-mount screw size (mm)	M6 (length: refer to diagram on page 51)		

Model name		KDL-46BX451 KDL-46BX450	KDL-40BX451 KDL-40BX450
Mass* with stand (kg) (lb.)		17.2 37.9	13.8 30.4
	without stand (kg) (lb.)	16.0 35.3	12.8 28.2
	lied accessories common to all models	Remote control RM-YD080 (1)/Size AA batteries (2)/Operating Instructions (1)/Quick Setup Guide (1)/Warranty Card (1)/Safety and Regulatory Booklet (1)/Software License (1)/Stand installation guide (1)/Table-Top Stand (1 set)/Screw (3)	
Optio	otional accessories Connecting cables / Support Belt Kit / Wall-Mount Bracket: SU-WL500		

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

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For Your Convenience		
Online	Be sure to register your TV.	
Registration:	United States Canada	http://productregistration.sony.com http://www.sony.ca/registration