SONY

LCD Digital Color TV



Operating Instructions

KDL-40XBR6 KDL-46XBR6 KDL-52XBR6





Owner's Record

The model and serial numbers are located at the 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 120 V AC.

Declaration of Conformity

Trade Name: SONY Model: KDL-40XBR6/KDL-46XBR6/ KDL-52XBR6 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.

NOTIFICATION

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.

For Customers in Canada

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

CAUTION

Use the following Sony TVs only with the following WALL-MOUNT BRACKET or TV-stand.

	Sony TV Model No.				
	KDL- KDL- KDL- 40XBR6 46XBR6 52XBR6				
Sony Wall-Mount Bracket Model No.		SU-WL500			
Sony TV	۱ ۱	NS-S10LS	3		
Stand Model No.	SU-F	L71M	-		

Use with other WALL-MOUNT BRACKETS or TV stands may cause instability and possibly result in injury.

To Customers

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

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.

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Fergason Patent Properties, LLC: U.S. Patent No. 5,717,422 U.S. Patent No. 6,816,141

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DLNA[®], the DLNA Logo and DLNA CERTIFIED[™] are trademarks, service marks, or certification marks of the Digital Living Network Alliance.





DOLBY:







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 Electronic Industries Alliance (www.eiae.org).

Welcome to the World of BRAVIA®

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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.sonystyle.ca/registration Thank you for purchasing this Sony BRAVIA® high-definition television. 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 Disc[™] player or other HD compatible external equipment

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

To learn more about HDTV, visit: U.S.A. http://www.sony.com/HDTV Canada http://www.sonystyle.ca/hd

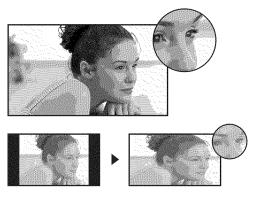
The Four Steps to a Full HD Experience: Set, Sound, Source, and Setup

Along with your **BRAVIA** TV set, a complete HD system requires an HD sound system, a source of HD programming and proper setup connections. This manual explains basic setup connections (see page 12). The Quick Setup Guide, enclosed separately, illustrates how to connect other optional equipment.

Picture Quality and Aspect Ratio

You can enjoy crisp, clear images, smooth movement and high-impact visuals from 1080 HD signals. When you compare a high-definition signal to a standard analog signal, you will notice a big difference.

High-definition and standard-definition signals are transmitted with different aspect ratios (the width-to-height ratio of the image). HDTV uses a wider screen than conventional standard-definition TV.



16:9 (high-definition) source

Most HDTV signals use a wide screen aspect ratio of 16:9. The 16:9 fills your **BRAVIA** screen, maintaining a crisp, clear, vivid picture.

4:3 (standard-definition) source

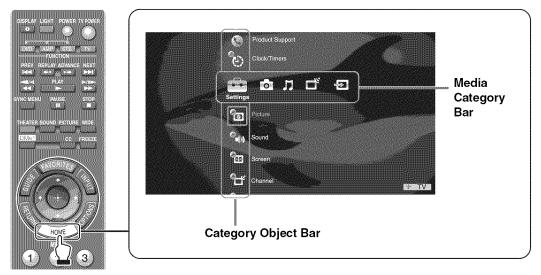
Most standard-definition signals use a boxy 4:3 aspect ratio. When a 4:3 image is displayed on an HDTV, you will see black bars on the sides. The picture quality may not be as sharp as with HD sources.

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• You can use the **Wide Mode** function of the TV to adjust the 4:3 image to fit the entire screen (see pages 21, 44 and 45).

TV Home Menu: XMB™ (XrossMediaBar)

The **XMB**[™] is an easy way to access the TV settings for customizing, making adjustments, viewing the available TV channels, photo and music files, and selecting connected equipment. Press the **HOME** button on your remote control to display the **XMB**[™].



From the horizontal Media Category Bar you can control:

- **Settings**: adjust timer, picture, sound, screen and other options (see page 40 for customization options).
- **Photo**: view photo files via USB or compatible DLNA Certified[™] equipment (see page 30).
- Music: listen to music files via USB or add music to a slideshow (see page 32).
- TV Channels: access TV Guide On Screen[™] and available channels.
- External Inputs: select cable, satellite, VCR, DVD players or other optional equipment can also be selected from the vertical Category Object Bar from the External Inputs.

Your BRAVIA TV is Energy Star Compliant. It meets strict energy efficiency guidelines set by the EPA and US 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 stay within the Energy Star guidelines.
- Changes to certain features, settings, and functionalities of this TV (i.e. TV guide, 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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• This manual is for the 40, 46 and 52 inch **BRAVIA** KDL-XBR6 series models with screen size measured diagonally.

1. 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:

- How to carry the TV
- Preparation for a Table-Top stand
- Preparation for a Wall-Mount Bracket
- Installation against a wall or enclosed area
- Bundling the connecting cables
- Securing the TV

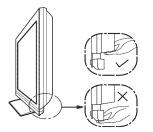
Carrying the TV

Be sure to follow these guidelines to protect your property and avoid causing serious injury.

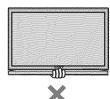
- Before carrying the TV, disconnect all cables.
- Carrying the large size TV requires two or more people.
- When carrying the TV, place your hand as illustrated and hold it securely. Do not subject the TV to shocks, vibration, or excessive force.



• Lift the TV by placing your palm directly underneath the panel but do not put stress on the LCD panel.



• Do not lift the TV from the bottom center.

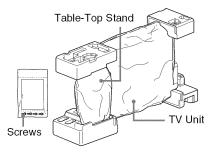


Preparation for Table-Top Stand

Follow the assembling steps required to place on a TV stand (except model, KDL-52XBR6).

1 Remove the Table-Top Stand and screws from the carton. The screws can be found in the accessory bag.

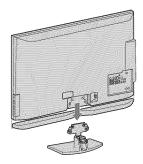
For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV.



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.

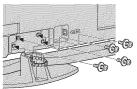


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- Do not put stress on the LCD panel or the frame around the screen.
- Be careful to not pinch your hands or the AC power cord when you install the TV unit to the Table-Top Stand.

Getting Started

4 Use the supplied screws to attach the TV unit to the Table-Top Stand (refer to the "Attaching the Table-Top Stand" flyer).



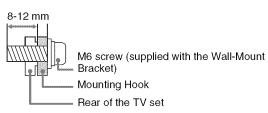
If an electric screwdriver is used, set the torque to tighten at approximately 1.5 N·m, 15 Kgf·cm.

Preparation for Wall-Mount Bracket

All models are ready to be mounted on a wall.

- For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and the wall-mounting of your TV should be performed by a Sony dealer or licensed contractor.
- 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 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook. The diameter and length of the screws differ depending on the Wall-Mount Bracket model. Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.



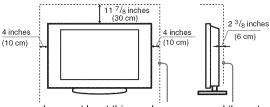
• Be sure to store the unused screws and Table-Top Stand in a safe place until you are ready to attach the Table-Top Stand. Keep the screws away from small children.

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

When Installing the TV Against a Wall or Enclosed Area

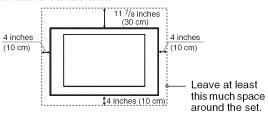
Make sure that your TV has adequate air circulation. Allow enough space around the TV as shown below. Avoid operating the TV at temperatures below 41 °F (5 °C).

Installed with stand



Leave at least this much space around the set.

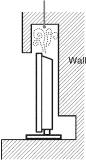
Installed on the wall

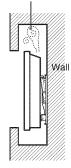


Never install the TV set as follows:

Air circulation is blocked.

Air circulation is blocked.





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

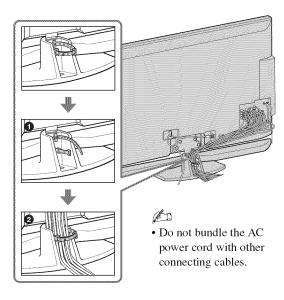
Consider the following for best picture quality

- 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.

Bundling the Connecting Cables

You can bundle the connecting cables as illustrated below.



Getting Started

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

Prevent the TV from Toppling Over

injury or even death.

- \Box 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.
- \Box 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.

Use a Sony TV Stand

Use a Sony specified TV stand (see page 2) 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.

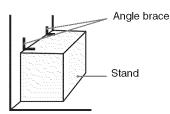
Recommended Measures to Secure the TV

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.



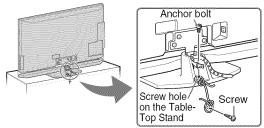
Secure the TV to the Stand

Use the optional hardware listed below (not supplied):

- M6 × 10-12 mm anchor bolt (screwed into the TV's Table-Top Stand)
- A screw or similar (attach it to the TV stand)

• Rope or chain (strong enough to support the weight of the TV). Make sure that there is no excess slack in the rope or chain.

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



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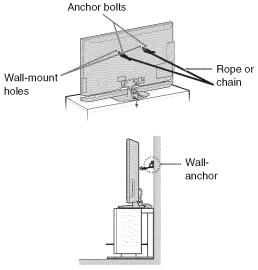
Contact Sony Customer Support to purchase the optional Support Belt Kit by providing your TV model name.

- For United States call: 1-800-488-7669 or visit: www.sony.com/accessories
- For Canada call: 1-877-899-7669

Anchor the TV to the Wall

Use the hardware listed below (not supplied):

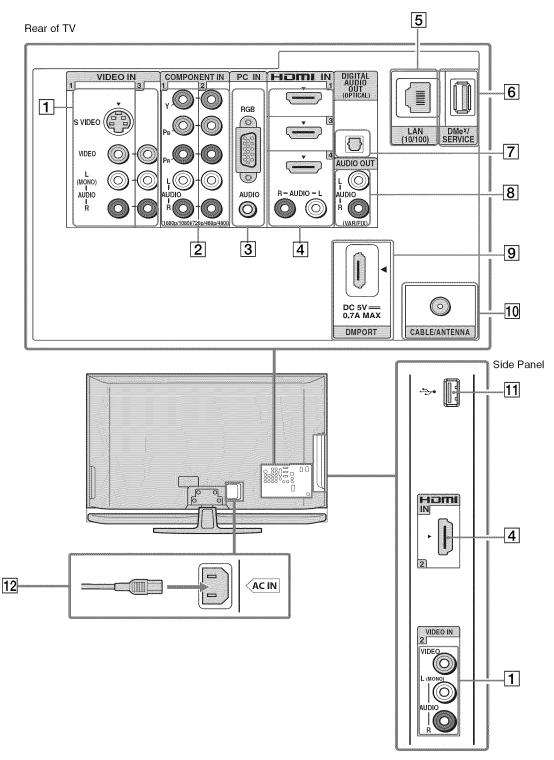
- Two M6 \times 10-12 mm anchor bolts (screw into the top-most wall-mount holes located on the rear of the TV)
- Rope or chain (attach to one M6 anchor bolt)
- Wall-anchor (attach to the wall stud) strong enough to support the weight of the TV (pass the rope through the wall-anchor, then attach to the other M6 anchor bolt)



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• 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.

2. Locating Inputs and Outputs



Ø

- This TV displays all video input signals in a resolution of 1,920 dots × 1,080 lines.
- An HDMI or Component video (YP_BP_R) connection is required to view 480i, 480p, 720p, 1080i and 1080p video formats. 1080/24p is available only with HDMI connection.

ltem		Description
1 VIDEO S VIDE		Connects to the S VIDEO output jack of video equipment. If both composite video and S VIDEO are connected, S VIDEO signal has priority.
VIDEO VIDEO AUDIO	/L(MONO)-	Connects to the composite video and audio output jacks on your A/V equipment.
Addio		• If you have mono equipment, connect its audio output jack to the TV's L (MONO) audio input jack.
1/2 (10	ONENT IN 80p/1080i/ 80p/480i)/ IO-R	Connects to your equipment's component video (YP_BP_R) and audio (L/R) jacks.
3 PC IN (RGB/A	AUDIO)	Connects to a personal computer's video and audio output connector (see page 14). Can also be connected to other analog RGB equipment. See "PC Input Signal Reference Chart" on page 14 for the signals that can be displayed.
		 For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If this is the case, connect the adapter to the computer before connecting the HD15-HD15 cable. If the picture is noisy, flickering or not clear, adjust Phase and Pitch of Screen settings on page 45.
4 HDMII	N 1/2/3	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped A/V equipment. HDMI supports enhanced, or high-definition video, plus digital audio.
HDMI I R-AUD		If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN 4 (with DVI-to-HDMI cable or adapter) jack, and connect the audio jack to the AUDIO IN (L/R) jacks of HDMI IN 4.
		 Image: Bestime to use only an HDMI cable that bears the HDMI logo. Image: When connecting a DVI-equipped PC to an HDMI jack, also connect an Audio cable between the PC and R-AUDIO-L jack.
5 LAN (1	0/100)	Connects to a Local Area Network using an Ethernet cable. You can use this connection to connect to a network, receive software updates and enjoy photos from the Internet (see page 30).
6 DMe ^x / SERVIC	CE	This USB port is for service only unless you are connecting the optional BRAVIA external module (DMe^x).
	L AUDIO OPTICAL)	Connects to the optical audio input of your digital audio equipment that is PCM/Dolby* Digital compatible.
8 AUDIO (VAR/F		Connects to the left and right audio input jacks of your analog audio equipment. You can use these outputs to listen to your TV's audio through your stereo system.
9 DMPOI	RT	Connects to devices via a DIGITAL MEDIA PORT interface (not supplied) and displays photos or plays videos and music directly onto the TV from some DIGITAL MEDIA PORT equipment. Some devices can be controlled with the TV's remote control (see page 25).
10 CABLE ANTEN		RF input that connects to your cable or VHF/UHF antenna.
11 USB		Connects to USB equipment to access photo files and music files (see page 29).
12 AC IN		Connects to your power source. Connect the supplied power cord to AC IN and the nearest wall outlet.

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

3. Connecting the TV

Cable System or VHF/UHF Antenna System

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

Ø

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

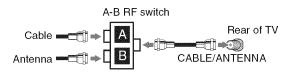
Cable or VHF/UHF (or VHF only)



CABLE/ANTENNA

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.



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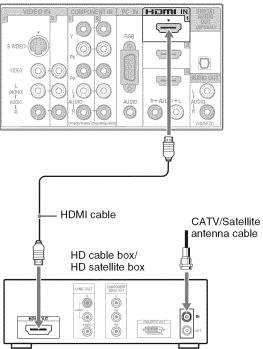
• Be sure to set the **Signal Type** setting to **Cable** or **Antenna** in the **Channel** settings for the type of input signal you choose (see page 46).

HD Cable Box/HD Satellite Box

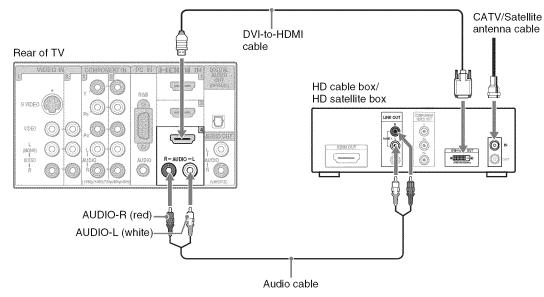
You can enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service. For the best possible picture, make sure you connect this equipment to your TV via the HDMI or component video (with audio) input on the back of your TV.

Shown with HDMI Connection

Rear of TV

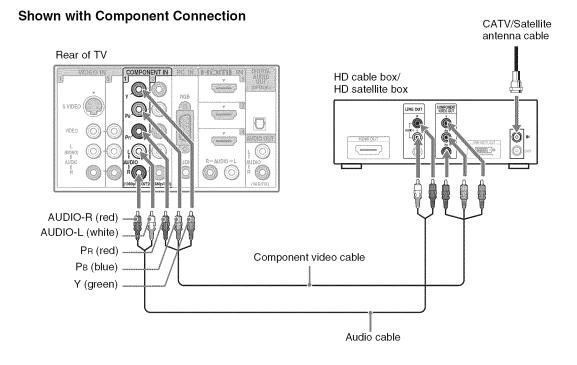


Shown with DVI Connection



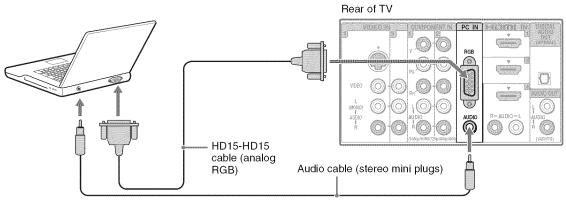
Ø

• If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN 4 (with DVI-to-HDMI cable or adapter) jack and connect the audio jack to the AUDIO IN (L/R) jacks of HDMI IN 4. For details, see page 11.



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.)



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- Connect the PC IN jack to the PC using an HD15-HD15 cable with ferrite core (analog RGB) and audio cable (see page 11).
- If the PC is connected to the TV and no signal has been input from the PC for more than 30 seconds, the TV enters the standby mode automatically (see page 52).

PC Input Signal Reference Chart

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

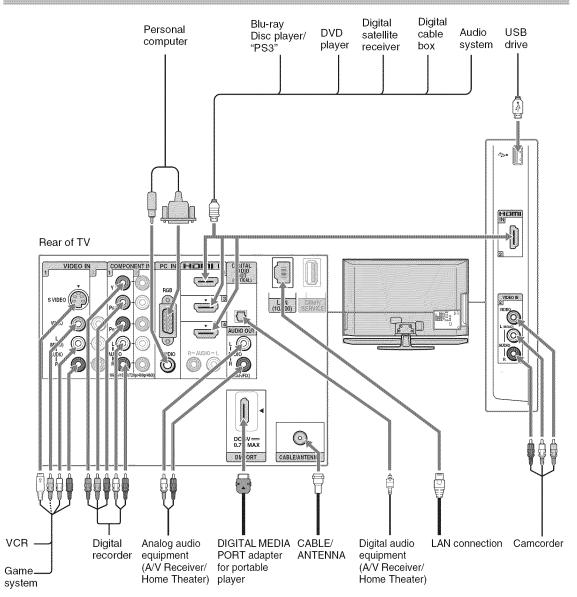
Supported resolutions						
Signal	Horizontal (Pixel)	×	Vertical (Line)	 Horizontal frequency (kHz) 	Vertical frequency (Hz)	Standard
VGA	640	×	480	31.5	60	VGA
	640	×	480	37.5	75	VESA
	720	×	400	31.5	70	VGA-T
SVGA	800	×	600	37.9	60	VESA Guideline
	800	×	600	46.9	75	VESA
XGA	1,024	×	768	48.4	60	VESA Guideline
	1,024	×	768	56.5	70	VESA
	1,024	×	768	60.0	75	VESA
WXGA	1,280	×	768	47.4	60	VESA
	1,280	×	768	47.8	60	VESA
	1,280	×	768	60.3	75	
	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*

Ø

- 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.
- For the best picture quality, it is recommended to use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency. In plug and play, signals with a 60 Hz vertical frequency will be detected automatically. (PC reboot may be necessary.)

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

Other Equipment



Ø

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

4. Setting Up the Channel List – Initial Setup

The **Initial Setup** screen appears when you turn on the TV for the first time.



- 1 Complete your cable connections (refer to the preceding pages and the Quick Setup Guide provided separately) before proceeding with the **Initial Setup**.
- 2 Use the remote control to navigate through the **Initial Setup**:

(internet		(I)
	Ú	
	HOME	Le la
	- Calling	Colum

Allows you to highlight options where applicable.

button:

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

button:

Allows you to move back to the previous screen.

button:

Allows you to move to the next screen.

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

If you receive channels from a cable box or satellite receiver without using the CABLE/ ANTENNA input (e.g. using HDMI or component input), skip **Auto Program**.

to

• If you select **Skip**, you will be asked to disable **Channel Tuning Keys** to avoid accidental input change while using an external input; see page 50 for details.

- If the language that you have selected in the **Language** setting is available from the broadcaster as an **Alternate Audio** language, your TV will automatically switch to the matching language with the **Alternate Audio** feature. The **Alternate Audio** option may be accessed by pressing **OPTIONS** on the remote control when an alternate audio stream is available from the broadcaster. **Alternate Audio** is only available for digital programs (see page 44).
- **4** Set the date and time.

Begin your TV Guide On Screen Setup

When the **Initial Setup** is completed, the TV will display this screen and prompt you to set up the electronic program guide. Follow the on screen instructions using your remote control.

🗱 Initial Setup		Step 6 of 6
n nan in ⁿ an Georgean Antonio an ann		
" ⁴	s TV features an electronic program guid	la.
84	slect 💿 to begin the TV Guide setup.	
· · · · · · · · · · · · · · · · · · ·		

Next, you will see a confirmation screen with instructions on how to acquire the TV Guide On Screen service.

- The service is free of charge.
- Your TV acquires program listing information while your TV is turned off.
- Allow 24 hours (some areas may take longer) for the TV to fully receive the program listing information.
- Once the program information is obtained by the TV, you will be able to view a guide of up to two days of TV programming. See page 34 on how to use the TV Guide On Screen.

□ To Display TV Guide On Screen Press GUIDE.



□ To Run Initial Setup Again or Auto Program at a Later Time

Select the **Initial Setup** feature from the **XMB**_{TM} or perform the steps described in the **Initial Setup** section on page 52. To run **Auto Program**, see page 46.



□ To Add Digital Channels

Use the **Add Digital Channels** feature as described on page 46. (Useful for antenna installations.)

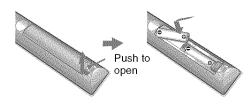
Þ

- If you accidentally turn off the TV during the **Initial Setup** process, the **Initial Setup** will restart from the beginning when the TV is turned back on.
- Auto Program may be canceled while the channels are being scanned. Press **RETURN** first, then press either ***/**→ on the remote control. Select **Yes** to cancel or **No** to resume **Auto Program**.

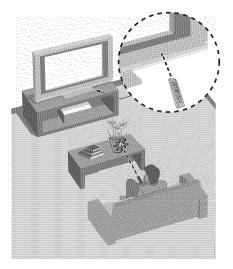
Operating the TV

Inserting Batteries into the Remote Control

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



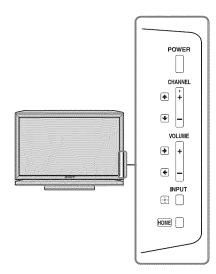
When Using the Remote Control



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.

TV Controls



The buttons located on the side of the TV operate the same as the corresponding buttons on the remote control.

Remote Control Button Description



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

Button	Description
1 DISPLAY	Press once to display the banner with channel/program information you are watching. The banner will time out in about 10 seconds or press again to exit. You can select the banner size based on the amount of information. See Info Banner on page 51.
2 LIGHT	Press to light up the remote control buttons. The FUNCTION button indicator light will light up in red for the device mode the remote control is operating and other buttons will light up in blue (see page 25).
3 FUNCTION Buttons	The FUNCTION button indicator lights up momentarily when pressed to show which external equipment the remote control is operating. These buttons can be programmed to operate external equipment. You must first press one of these FUNCTION buttons to operate the corresponding equipment. See page 25 for "Programming the Remote Control".
4 Equipment Control/ BRAVIA Sync	The buttons listed below can operate video equipment programmed to the DVD , AMP , or STB FUNCTION buttons of the remote control. When the TV FUNCTION button is selected, the buttons can also be used to control the connected equipment with the Control for HDMI function (not available on all Control for HDMI equipment).
	 previous chapter mark (if any) or from the beginning of the live TV cache. ◆•REPLAY: Press to replay the current program for a set period of time. •→ ADVANCE: Press to advance forward a set period of time when playing back a recorded program. ▶I NEXT: Press to advance forward to the next chapter mark (if any) or to live TV when playing back a recorded program. ◄ (fast reverse): Press to play a program in fast rewind mode. ▶ PLAY: Press to play a program at a normal speed.
	 ► (fast forward): Press to play a program in fast forward mode. ■ FAUSE: Press to pause playback. ■ STOP: Press to stop playback. ■ STOP: Press to the HDMI device and then press SYNC MENU to display the menu of connected equipment (not available on all Control for HDMI equipment). THEATER: Press to turn on and off the Theater Mode. The picture settings will be set for a cinema-like experience and the audio will be switched to the audio output of the attached speakers of your BRAVIA Sync audio system. Your BRAVIA Sync audio system must be connected by an HDMI connection to your TV (see page 36 for details).
5 SOUND	Press to cycle through different sound settings: Dynamic , Standard , Clear Voice . The sound modes can also be accessed in the Sound settings. For details, see Sound settings on page 43.
6 DMe ^x	Press to access features in the optional BRAVIA external module (e.g. DMX-NV1). See your dealer or www.sony.com/bravia for more information. The module may not be available in all regions.
	(Continued)

(Continued)

Button Description

[7] FAVORITES Press once to display the **Favorites** menu. Press again to exit from the **Favorites** menu. See page 28 for detailed information.



8 GUIDE Press to open the TV Guide On Screen system. Press again to exit the Guide. For instructions on using a specific menu, see "How to Use TV Guide On Screen" on page 34.

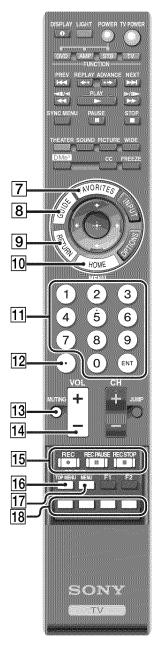


9 RETURN	Press to go back to the previous screen or exit from the screen when displaying menu items and settings.
10 HOME	Press to display the TV Home Menu/XMB $_{TM}$ to access the

IOME Press to display the TV Home Menu/XMB_™ to access the TV Home Menu items such as the TV Settings, Photo, Music, TV channels and External Inputs list (see pages 5 and 38).



11	0-9 ENT	Press 0-9 to select a channel; the channel changes after two seconds. Press ENT to change channels immediately.
12	\bigcirc	Use with 0-9 and ENT to select digital channels. For example, to enter 2.1, press (2) , (\cdot) , (\uparrow) and ENT .
13	MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
14	VOL +/-	Press to adjust the volume.
15	DVR/VCR Record Buttons	 REC: Press to record. Pressing this button alone starts the recording process. REC PAUSE: Press to pause recording. REC STOP: Press to stop recording.
16	BD/DVD TOP MENU	Press to display the top menu of the BD/DVD disc.
17	BD/DVD MENU	Press to display the BD/DVD disc menu.
		connected equipment.
18	Red, Green, Blue, Yellow	To use with Sony Blu-ray player (BD) see chart on page 26.



Button	Description	
19 TV POWER	Press to turn on and off the TV	Ι.
20 POWER	Press to turn on and off the ext FUNCTION buttons.	ternal equipment selected by
21 WIDE	Press repeatedly to cycle throu Mode settings: Wide Zoom, Zoom. The Wide Mode setti the Screen settings (see page Changing the Wide Scr	Normal, Full, H Stretch , ings can be also accessed in s 44 and 45).
-	4:3 Original source	16:9 Original source
	Standard-definition source	High-definition source
_	+	
	Wide Zoom	Wide Zoom
	Full	This mode is not available.
	H Stretch	H Stretch
	This mode is not available.	
	Zoom	Zoom
	 Normal is available with 48 H Stretch is only available 1080/24p sources. Changing the Wide Scr Timing 	with 720p, 1080i, 1080p and reen Mode for PC
	Incoming PC signal	Incoming PC signal
	800 × 600	1,280 × 768
	+	↓
	Normal	Normal
	Full 1	Full 1
	Full 2	Full 2

DISPLAY LIGHT

FUNCTION

PAUSE

CHEATER SOUND PICTURE WIDE

MENU 2

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•/ VOL

<u>CC</u> FREEZE ORICE

POWER TV POWER)

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REC RECRAUSE RECISTOP - BD/DVD - Top Menu Menu F1 F2

SONY

(Continued)

		Button	Description	
V POWER NEXT PHI PHI PHI PHI PHI PHI PHI PHI		22 PICTURE	Press repeatedly to cycle throug Vivid, Standard, Cinema, C Photo-Standard, Photo-Ori Video, Text. (Available option: The picture modes can also be a settings. For details, see Pictur	ustom, Photo-Vivid, ginal, Photo-Custom, s depend on the current mode.) accessed in the Picture
		23 FREEZE	Press once to display a frozen in in a window. Press again to fill image. Press a third time to retu	the screen with the frozen
			Current	Freeze Frozen picture
)E ZE	<u> 22</u> <u> 23</u>		Press the $4/4/4$ to move the current program to a different	
	<u> 24</u> <u> 25</u>		 With the Freeze feature active While the Freeze feature is deactivate Freeze and displacements 	active, pressing HOME will
	26	24 CC	Press to cycle through the avai Captions (CC): On, Off, and	ilable settings for Closed
3)	27	25 INPUT	Press to display the list of Ext Press repeatedly to toggle through the sea page 50 on setting up the	ough the inputs.
		26	• See page 50 on setting up the Press $\frac{1}{\sqrt{4}}$ to move focus/	
)			confirm an item.	
		27 OPTIONS	Press to display a list of conve shortcuts. The OPTIONS me	
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content.	nu items vary based on
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item	nu items vary based on Reference Page
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments	nu items vary based on Reference Page See page 41
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments	nu items vary based on Reference Page See page 41 See page 43
aw C		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP	Reference Page See page 41 See page 43 See page 37
Amp C		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP	Reference PageSee page 41See page 43See page 37See page 37
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers	Reference Page See page 41 See page 43 See page 37 See page 44
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap	Reference PageSee page 41See page 43See page 37See page 37
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers	Reference PageSee page 41See page 43See page 37See page 37See page 44
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/	Reference PageSee page 41See page 43See page 37See page 37See page 37See page 44See page 37See page 45
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites	Reference PageSee page 41See page 43See page 37See page 37See page 37See page 44See page 37See page 28
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. <u>Menu Item</u> Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS	Reference PageSee page 41See page 43See page 37See page 37See page 37See page 44See page 45See page 28See page 44
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS Alternate Audio Digital Rating Background TV	nu items vary based onReference PageSee page 41See page 43See page 37See page 37See page 44See page 45See page 28See page 44See page 48See page 29
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS Alternate Audio Digital Rating Background TV Motion Enhancer	nu items vary based onReference PageSee page 41See page 43See page 37See page 37See page 44See page 45See page 45See page 44See page 42
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS Alternate Audio Digital Rating Background TV Motion Enhancer Device Control	nu items vary based onReference PageSee page 41See page 43See page 37See page 37See page 44See page 45See page 28See page 44See page 42See page 50
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS Alternate Audio Digital Rating Background TV Motion Enhancer	nu items vary based onReference PageSee page 41See page 43See page 37See page 37See page 44See page 45See page 45See page 44See page 42
		27 OPTIONS	shortcuts. The OPTIONS mer current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS Alternate Audio Digital Rating Background TV Motion Enhancer Device Control Device Control (Menu) for	nu items vary based onReference PageSee page 41See page 43See page 37See page 37See page 44See page 45See page 45See page 44See page 42See page 50

The Digital Rating and Alternate Audio options will appear in Options only when digital ratings or alternate audio streams are available in the currently tuned digital program.

MENU

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RECIPAUSE REC /D --MENU F1

SONY

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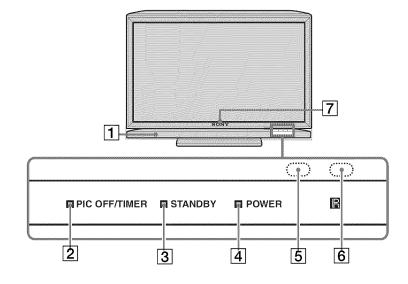
•

REC

Button	Description	
28 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.	
	★₽+₽	
29 CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either +/- .	
30 F1/F2	Press to select the function of connected components. For details, see "Using Other Equipment with Your Remote Control" on page 27.	



Indicators



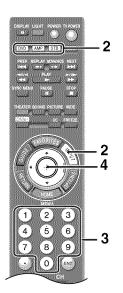
Item	Description
1 Speaker	Outputs the audio signal.
2 PIC OFF/ TIMER LED	Lights up in green when the Picture Off feature is activated. Lights up in orange when the timer is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 40 (Timer) and page 52 (Picture Off).
3 STANDBY LED	Lights up in red when your TV is in PC standby mode. If the LED blinks in red continuously, this may indicate that the TV needs servicing (see contacting Sony information on the back cover).
4 POWER LED	Lights up in green when the TV is turned on.
5 Light Sensor	Senses room light level and adjusts the screen brightness accordingly (see page 52 for details). Do not put anything near the sensor or the nearby general area (as shown above), as its function may be affected.
6 (IR) Infrared Receiver	Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected.
7 SONY Logo	The Sony logo will illuminate when the TV is powered on. You can turn off the logo illumination, for details see page 52.

Programming the Remote Control

The remote control can be programmed to operate other equipment and is pre-programmed to operate the following Sony equipment.

Function Button Sony Equipment Code Number			
DVD	DVD Player	31033	
AMP	Receiver	52172	
STB	Digital Satellite	01639	

Programming Other Equipment



Follow the steps below to program your TV remote control.

- **1** Find the code that corresponds to your equipment from page 26. If more than one code is provided, try programming the first code listed.
- Press and hold DVD, AMP or STB simultaneously with the INPUT button and release. When in the programming mode, the FUNCTION button blinks for approximately 30 seconds until a code is entered.
- **3** Enter the five digit code using **0-9**. while the **FUNCTION** button is lit. If the code is not entered within 30 seconds, you must repeat step 2.
- 4 Press (+) or ENT to confirm the code. If successfully programmed, the FUNCTION button blinks twice; if not, it blinks five times.

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• Any of the **FUNCTION** buttons can be programmed to operate other equipment regardless of the labeling. For example, **DVD** can be programmed to operate a Bluray player.

Confirm the Programming

If you can turn your equipment on and off using the green **POWER** button, the programming is complete. If not, try the next code listed.

Ø

• In some cases, you may not be able to program your remote control. If this is the case, use your equipment's own remote control.

Auto Backlight

The backlight can be set to light up when a button is pressed.

To set backlight:

Press **LIGHT** and **MUTING** simultaneously until the four **FUNCTION** buttons blink red.

To turn off backlight:

Press **LIGHT** and **MUTING** until the **TV** button blinks red.

Backlight Time Out

The remote control can be set to remain lit longer than the default time setting of approximately five seconds with the **FUNCTION** buttons.

To change backlight time setting:

- 1 Press LIGHT, VOL+, and then CH+ simultaneously until the FUNCTION button blinks red.
- Select the FUNCTION button that corresponds to your preferred time out setting and press (+).

DVD 5 seconds (default)	
STB 15 seconds	-

AMP 10 seconds **TV** 20 seconds

Reset the Remote Control

To reset the remote control to the factory default settings, press **SOUND**, **TV POWER**, and then (+). The **FUNCTION** buttons blink red simultaneously when successfully reset.

Manufacturer's Code List

If your equipment's code is not listed, visit

http://esupport.sony.com/remotecodes for a more comprehensive list.

Sony Equipment Codes

Programmable Code Number
52172
41516, 42178, 42180
02177
51622, 51558, 51658,
51858
31633
31033, 31069, 31070
31033, 31069, 31070
30864
22181, 22182, 22183
01639
21232, 21546, 22184

Other Manufacturer Equipment Codes

HD Blu-ray Players

Manufacturer Code		
LG	40741	
Panasonic	41641	
Philips	42084	
Pioneer	40142	
Samsung	40199	

DVD Player

Manufacturer	Code
Coby	30778, 30852, 31077,
	31086, 31107, 31165,
	31177, 31351, 31628
Cyberhome	30816, 30874, 31023,
	31024, 31117, 31129,
	31502, 31537
GPX	30699, 30769
JVC	30558, 30623, 30867,
	31164, 31550, 31602
Koss	30651, 30769, 30896,
	31061, 31423
Memorex	30695, 30831, 31270
Panasonic	30490, 30503, 30571,
	30703, 31762
Philips	30503, 30539, 30646,
	30675, 31267, 31354,
	32056
RCA	30522, 30571, 30717,
	30790, 30822, 31022
Samsung	30490, 30573, 30744,
	31044, 31075, 31470
Sylvania	30675, 31268
Toshiba	30503, 30539, 30573,
	30695, 31154, 31503,
	31588, 31608, 31854

DVD Changers

Manufacturer	Code
Sylvania	30675
Techwood	30692
Toshiba	30503, 31154
Yamaha	30497, 30545
Zenith	30741

DVD Recorder

Code
31129, 31502
31164
30741
31158, 31416, 31440
30490
30646
30490, 31470
30675
31588

DVD/VCR Combo Units

Manufacturer	Code
JVC	30867, 31164, 31550,
	31602
Broksonic	30695, 31419
Panasonic	31762
Toshiba	30503, 31854
Zenith	30741, 30869

VCR's

Manufacturer	Code
Daewoo	20037, 20045, 20046,
	20278, 21137
JVC	20041, 20067, 21162
Panasonic	20000, 20035, 20162,
	20225, 20226, 20614,
	20616, 21062, 21162,
	21262
Philips	20000, 20035, 20045,
	20048, 20081, 20162,
	20209, 20616, 20618,
	20739, 21081, 21181
Sylvania	20000, 20035, 20043,
	20081, 20593, 21593

A/V Receiver/Home Theater Systems

Manufacturer	Code
Audiovox	30790, 51390
Bose	50674, 51229, 51933
Denon	50121, 51142, 51306,
Denon	51360, 52857
F	50531
Emerson	
JVC	50331, 51495
Koss	30651
LG	51293
Onkyo	51298, 51320, 51805
Panasonic	50308, 51288, 51308,
	51316, 51548, 51633,
	51763, 51764
Philips	31267, 51189, 51266,
	51269
Pioneer	50150, 50531, 50630,
	50823, 51023, 51384
RCA	30790, 50531, 50823,
	51023, 51254, 51390,
	51511, 51609
Samsung	51295, 51500
Sherwood	31077, 51077, 51517,
	51653
Yamaha	30497, 50176, 50354,
	51023, 51276, 51331,
	51376, 51815
Zenith	51293

Digital Video Recorders

Manufactu	rer Code
TiVo	01442, 01443, 01444,
	20618, 20636, 20739

Satellite

Satemite	
Manufacturer	Code
DirecTV	00099, 00247, 00392,
	00566, 00639, 00749,
	00819, 01076, 01108,
	01109, 01142, 01377,
	01392, 01414, 01442,
	01442, 01443, 01444,
	01609, 01639, 01640,
	01749, 01856, 20739
Dish Network	00775, 01170, 01505,
System	01775
Echostar	00775, 01170, 01505,
	01775
Funai	01377
GE	00392, 00566
Hitachi	00749, 00819, 01250
Hughes	00749, 01142, 01443,
0	01444, 01749, 20739
Humax	01790, 20739, 21797,
	21988
JVC	00775, 01170, 01775
LG	01226, 01414, 22010
Panasonic	00247, 00701, 20614,
	20616
Philips	00099, 00722, 00749,
•	00775, 00819, 01076,
	01142, 01749, 20618,
	20739
RCA	00143, 00392, 00566,
	00775, 00855, 01142,
	01392, 01442, 20880
Samsung	01108, 01109, 01142,
C C	01276, 01377, 01442,
	01609, 20739
TiVo	01442, 01443, 01444,
	20618, 20636, 20739

Cable Box

Manufacturer	Code
Jerrold/	00003, 00276, 00476,
General Inst./	00810, 01187, 01254,
Motorola	01376
Pace	00008, 00237, 00877,
	01877
Panasonic	00000, 00008, 00107,
	00144
Pioneer	00144, 00533, 00877,
	01877
Scientific Atlanta	00000, 00003, 00008,
	00237, 00477, 00877,
	01877
Zenith	00000, 00525, 00899

Using Other Equipment with Your Remote Control

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Remote control tips are provided below for the equipment you have programmed on the **DVD**, **AMP**, **STB** buttons of the remote control. See page 25 for programming equipment to the remote control. Press **INPUT** to see your connected equipment in the **External Inputs** menu. Button functionality may differ depending on your equipment.

Button	Action	Universal Blu-ray, HD-DVD, DVD, DVD-R, DVD/ HDD, DVD/VCR	Universal VCR, DVR	Universal SAT/ CBL	Universal AMP/ Receiver
Access Cont		,			
DISPLAY	Display	V	Information		V
(+)	Select	V	V	V	V
$\overline{\mathbf{O}}$	Clear, (cancel)	V	V	N/A	V
ENT	Enter	V	V	✓	V
Shortcuts Co	introl				
GUIDE	Guide	✓	✓	✓	✓
FAVORITES	Favorites	N/A	N/A	✓	N/A
INPUT	Input Select	V	✓	✓	✓
RETURN	Exit	V	✓	✓	V
HOME	Setup Menu	✓	✓	✓	V
OPTIONS	Options	N/A	List	List	List
TOP MENU	Top Menu/List	Top Menu	List	List	Top Menu
MENU	Menu	Menu	Menu	Menu	Menu
F1	For selecting between DVD/ VCR in combo	HDD, DVD/HDD, DVD/VCR	VCR, VCR/DVD	N/A	N/A
F2	units	DVD	DVD	N/A	N/A
Equipment C		L			
POWER	Turn on/off		V	ÌV	
	Previous, Skip backward	v	V	v v	v v
4	Replay	V	V	V	Band
6 m)>	Advance, Skip	V	V	V	Surround
	Next, Skip forward	v	, V	V V	V
	Rewind	v v	v	v v	V V
	Play	V	V	V	V
••	Fast Forward	V	V	✓	V
11	Pause	✓	✓	✓	✓
	Stop	V	V	V	V
Recording Co	ontrol				
•	Record	✓	✓	✓	V
11	Record Pause	✓	V	✓	V
	Stop	V	✓	✓	✓
Navigation C					
	Cursor up/down	V	✓	✓	✓
◆/ →	Cursor left/right	✓	✓	✓	V
Tuning Contr					
0 - 9	Digit input	V	V	✓	V
CH +/-	Channel up/down	V	V	V	V
JUMP	Last channel	N/A	N/A		N/A
Volume Cont	rol			T	
VOL +/-	TV volume +/-	N/A	×	✓	AMP/RECEIVER Vol.
MUTING	Muting	N/A	N/A	N/A	✓
R/G/B/Y Cont					1 5105 55 5
Red	Red	V	N/A	V	DVD or BD Input
Green	Green	V	N/A	V	VIDEO 1 or A/V Input
Blue	Blue		N/A	V V	SAT or Cable Input
Yellow	Yellow	✓	N/A	✓	TV or Tuner Input

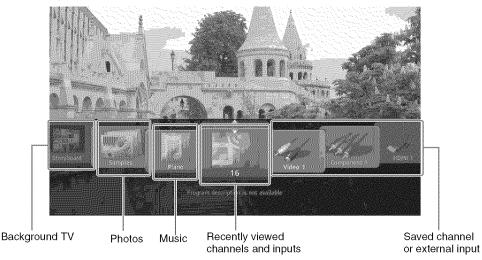
Exploring Fun Features

Favorites

With **Favorites**, you can manage your preferred **TV** channels, **External Inputs**, **Photo** content, **Music** content, and **Background TV** themes for easy access.

Displaying Favorites

Press FAVORITES.



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- The first time you enter Favorites, the recently viewed channels and inputs are highlighted.
- **Background TV** themes, built-in photos and music, and some inputs are automatically saved into **Favorites** as a factory default. To remove from **Favorites**, follow the instructions below.

Navigating Favorites

- **1** Press **♦/** to move between saved selections in a carousel-like fashion.
- 2 When the recently viewed channels and inputs are highlighted, press 4/4 to toggle between them.
- **3** To view an item, highlight its icon and press \oplus .

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• To clear your recently viewed channels and inputs list, highlight the list in **Favorites** and press **OPTIONS**, then select **Clear Recently Viewed**. Recently viewed items are also cleared when the TV is powered off.

Adding to Favorites

- **1** From the **XMB**_{TM}, select a **Photo**, **Music**, **TV**, or **External Inputs** icon. Locate the item you wish to add and press **OPTIONS**.
- **2** Press \bigstar/\clubsuit to highlight Add to Favorites and press \oplus .

Removing from Favorites

- **1** Press **FAVORITES**, then select an item to be removed, and press **OPTIONS**.
- **2** Press \neq/ \neq to highlight **Remove from Favorites** and press \oplus .

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• Initial Setup will return your Favorites to factory default settings (see page 52).

[•] Auto Program will clear your TV channels from Favorites (see pages 16 and 46).

Background TV

Background TV displays images of current video on your TV that are similar to a screen saver. **Background TV** is available from the CABLE/ ANTENNA, Composite, and DMPORT inputs.

Navigating Background TV

- **1** Tune to one of the inputs listed above.
- 2 Press OPTIONS.
- **3** Highlight **Background TV** and press (+).
- 4 Highlight a theme and press ↔. The TV will display the current channel or input using the selected **Background TV** theme.



- **5** Press **RETURN** to exit the **Background TV** and return to the current channel or input.
- Þ
- **Background TV** themes may also be saved to **Favorites**, so that you can launch these themes from the **Favorites** screen.

DLNA Certified™ Photo Media Player

This TV is a DLNA Certified digital media photo player that can display JPEG photo content from your DLNA Certified networked equipment.

After configuring the TV to an active network (see page 51), the available media servers will be found automatically and will be displayed under the **Photo** icon (see page 30). See **Show/Hide Servers** (page 51) to manually search for media servers.

Consult your DLNA Certified media server's operating instructions for more details on JPEG photo displaying capabilities. Sony does not guarantee that all media servers will display JPEG photos on this TV.

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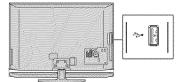
• Viewing content which is obtained between networked DLNA Certified equipment depends on the media formats supported by the DLNA Certified equipment.

Enjoying Photos and Music through USB Port

The TV offers easy access to JPEG photos and MP3 music files stored on Sony digital cameras (not supplied) connected via USB interface and Sony MICRO VAULT[™] USB Flash Drives (not supplied).

Using USB Equipment

The USB port is located on the side TV panel.



With the TV powered off, gently insert your USB equipment into the USB port and power on the TV. When inserted properly, it should slide in with little resistance. The TV will display "USB device detected". For information on how to access **Photo** or **Music** files, see pages 30-33.

Removing USB Equipment

Power off the TV and slide the USB Equipment out of the USB port.

USB Equipment Functionality

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

- Use of non-Sony brand USB equipment
- Use of video or audio clips processed on a computer
- Use of files obtained from the Internet or from a printed film processing center.

Sony recommends backing up all data stored on USB equipment 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 various Sony brand digital cameras and MICRO VAULT USB Flash Drives, but not all. Sony cannot guarantee or assure compatibility with all formats or products.

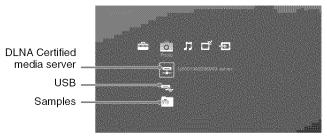
Photo

The **Photo** feature allows easy access to JPEG files from Sony USB connected equipment and DLNA Certified media servers.

Accessing Photos

Under the **Photo** icon found on the **XMB**_{TM}, select the DLNA Certified media server, **USB**, or **Samples** icon to locate your photo files.

- **1** Press **HOME**.
- 2 Highlight and select the **Photo** category.
- 3 Press ◆/◆ to highlight and select the photo file location.A sample DLNA Certified media server icon is shown below (actual icon may differ).



4 After locating your photo files, the List View will appear and display photo folders and files. Press
 ▲/◆ to highlight a file or folder and select (shown below with USB selected).

	Protection of the second
	🔫 < 📷 Hi S252007 1208 PM 📷
View	DSC00140_JPG
	DSC00141.JPG

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- To view available DLNA Certified media servers, your TV must be connected and configured to an active network (see page 51).
- The TV can display a maximum photo file size of 8 megabytes from DLNA Certified media servers.
- The photo display resolution range is 16 x 16 to 4,096 x 4,096 pixels.

Navigating through Photo

List

Use the remote control buttons described below to navigate through the feature.

Button	To do	Button	To do
OPTIONS	To access Photo Options menu	PLAY	To play a slideshow
+	To play and pause a slideshow or select a folder	PAUSE	To pause a slideshow
RETURN	To stop slideshow and return to List View/Thumbnail View	STOP	To stop slideshow and return to List View/Thumbnail View

Photo Options

Pressing **OPTIONS** while displaying the **List View** will display the following Options menu.

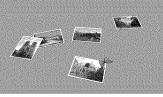


List View Options menu

Playback Method	Sets the Slideshow play mode and photo display order.	
	Repeat	Select On to continuously play the slideshow.
	Shuffle	Select On to shuffle the photo order during the slideshow.
Photo Settings	Sets the Slideshow settings.	
	Slideshow Speed	Select from Fast , Medium , or Slow to set the photo display duration.
	Slideshow Music	Select music to play during the slideshow. Tracks must be added in Music to be available for selection (see page 32).
	Slideshow Effect	Select from Simple, Butterfly, Maze, Sepia, Monochrome, Slide, or Fade to set the slideshow transition or image effect (shown below is Butterfly effect).
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• Maze and Butterfly slideshow effects can only display JPEG files.



	Display Preference	Select to optimize picture display quality or display speed.
	Display Size	Select to view photos in Standard or Expanded size.
File Order		which files will be listed. Select from Original , Alphabetical , everse , Date Order , or Date Order Reverse .
Thumbnail View	Select to fill the display screen with thumbnails.	
View	Select to view the photo file highlighted.	
Start Slideshow	Select to start the slideshow.	
File Actions	Select to modify file settings for photos from a USB connected equipment.	
	Rotate and Save	e Select to rotate a photo Right 90° , Left 90° , or 180° and save.
	Protection	Select to protect a photo from deletion.
	Delete	Select to delete a photo.
	Print Quantity	Select to set Print Quantity and save to USB connected equipment.
	de la	
	• Not available with photos accessed from a DLNA Certified media server.	
	Select to view photo folder, equipment, or server information.	
Information	server prive	

Pressing **OPTIONS** while displaying a photo will display the following Photo Options menu.



Photo Options menu

Picture Adjustments	Select to make adjustments to photos (see page 41 Picture Adjustments).
Sound Adjustments	Select to make sound adjustments (see page 43 Sound Adjustments).
Speakers	Select to set sound to TV Speakers or Audio System.
	Select to set sound to TV Speakers of Audio System.

• For Display Size, Playback Method, Photo Settings, Start Slideshow, Rotate and Save, Delete, Information, Add to Favorites, and Remove from Favorites see page 31.

• Photos cannot be stored in the TV.

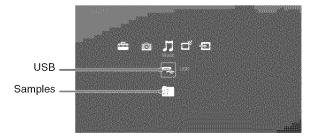
Music

Listen to music MP3 files directly from a Sony connected USB equipment (not supplied) or add music to a slideshow.

Accessing Music

Under the **Music** icon, select the **USB** or **Samples** icon to locate your MP3 files.

- **1** Press HOME.
- **2** Highlight and select the **Music** category.
- **3** Press **♦**/**♦** to highlight and select the music file location. A sample **USB** icon is selected below.



4 Music files and folders will be displayed in a **List View**. Highlight and select any available file or folder.

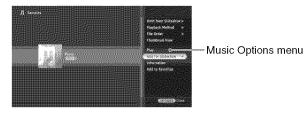
Navigating through Music

Button	To do	Button	To do
OPTIONS	To access Music Options menu	PAUSE	To pause or resume play of a music track.
(+)	To play or pause a music, to select a folder or track	STOP	To stop playing a music track and return to List View/Thumbnail View .
	To play the previous music track	♠/ ₩	To navigate the List View or to play the previous/next music track
	To play the next music track	◆ / →	Press and hold to display control panel. Release to continue play.
PLAY	To play a track	RETURN	To navigate the List View/ Thumbnail View.

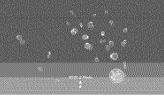
Use the remote control buttons described below to navigate through music tracks.

Music Options

Pressing **OPTIONS** while displaying the **List View** will display the following Music Options menu.



Omit from Slideshow	Select to remove selected track from the slideshow music.	
Playback Method	Sets the play order	and visual effect settings while playing music files.
	Repeat	Select On to continuously play tracks.
	Shuffle	Select On to shuffle the track play order.
	Track Selection	Select Single Track or All Tracks to play during a slideshow.
	Visualizer Effect	Select Album Art , Bloom , or Burst visual effects during a track play (shown below is Burst effect).



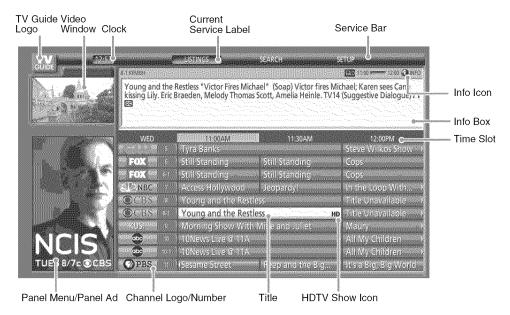
File Order	Sets the order in which files will be listed on the List View. Select from Original, Alphabetical, Alphabetical Reverse, Date Order, or Date Order Reverse.
Thumbnail View	Select to fill display screen with thumbnails.
Add for Slideshow	Select to make a music file accessible to play during slideshow. After adding a music file, see Slideshow Music under the Photo Options on page 31.
Information	Select to view track, folder, or equipment information.
Add to Favorites	Select to add a track, folder, or equipment to Favorites .
Remove from Favorite	es Select to remove a track, folder, or equipment from Favorites.
the	

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• Music tracks cannot be stored in the TV.

How to Use TV Guide On Screen

Use the Guide to find the show that you want to watch. The Guide allows you to search for shows by program categories and by keyword. The Guide provides up to two days of TV programming information. The Guide is available with cable service (without a cable box) or over-the-air antenna. Be sure to complete the **Initial Setup** on page 16 to use this service.



TV Guide On Screen System Components

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• Image shown above includes digital channels, which may not be available in some areas. If available, it may be necessary to manually change the channel display (see next page).

Use your TV's remote control to navigate the Guide system.

To Do This	Do This
View TV Guide	Press GUIDE to display the TV Guide. Press GUIDE again to exit or press HOME to exit to XMB _{TM} . The TV Guide will time out in approximately 5 minutes when no action is taken.
Find a program to watch	Use $\frac{1}{\sqrt{4}}$ to highlight a program. The CH+/– buttons can be used to page up/down through the listings. The program information will appear in the Info Box. Press (+) to tune to the highlighted program.
Return to Service Bar	Press RETURN while in the TV Guide, or press OPTIONS to display the Panel Menu then highlight the go to Service Bar and press (+). You can also press ↑ repeatedly to access the Service Bar.
Use shortcuts	Shortcuts allow viewing of listings for a different time slot or jumping to a channel of your choice. Enter a number using 0-9 buttons while LISTINGS on the Service Bar is highlighted. The Panel Menu will appear as soon as you enter a number. Complete entering the number in the Shortcuts. The entered number will determine the channel or listing hours ahead or back to view the program. Press ↑ to make your selection.

To Do This	Do This
Search program	Press ↑/↓ / ♦ / ♦ to highlight SEARCH on Service Bar. You can search for programs using the following options: KEYWORD , ALPHABETICAL , MOVIES , SPORTS , CHILDREN , EDUCATIONAL , NEWS , VARIETY , SERIES and HDTV . Press (+) then press ♦ / ♦ to highlight your search option. Press ♦ / ♦ to narrow your search. Press (+) when you find the program. If the program is airing now, press (+) to watch.
Keyword search	Keyword search can be done by type, category or subcategory of a program. Highlight SEARCH on the Service Bar, press $(+)$ then press $(+)$ to highlight KEYWORD . Press $(+)$ again or press OPTIONS to display Keyword Options in the Panel Menu. Select new search to narrow your search by type, category or subcategory by pressing $(+)(+)(+)$.
Customizing the TV Guide On Screen system settings	Highlight SETUP on the Service Bar then press to highlight the available options to customize your system settings. You can change system settings, change channel display, change default options, display setup progress and diagnostics information.
Change channel display	Highlight SETUP on the Service Bar then press Imes to highlight the Change channel display then press (+). Highlight a channel then press OPTIONS to display the Grid Options. Make the changes using Imestarce / Imestarce and/or 0-9 buttons. When the changes are made, select done and press (+). The Grid Options can also be used to re-sort the channel display numerically. Display the Grid Options and select re-sort numerically then press (+). Confirm the numerical re-sort by selecting yes to complete the task.
The Guide appears each time TV is turned on	Highlight SETUP on the Service Bar then press ↓ to highlight Change default options and then press (+). Highlight General defaults and press (+) to display options in the Panel Menu. Set auto guide to on to have the Guide appear when the TV powers on.
Lock/unlock video	Allows you to set the Video Window display to remain on a single channel (locked) or change channels (unlocked) as you navigate through Listings. While in Service Bar, press OPTIONS to display the Listings Options in the Panel Menu. Press \bigstar \bigstar to lock or unlock the video. The locked video option displays a single channel.

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 pages 12 to 15 or see the HDMI connection shown in the Quick Setup Guide provided with the TV documentation.

Setting the Control for HDMI

The **Control for HDMI** function must be set up in order for the TV to communicate with other **Control for HDMI** enabled equipment. See page 50 for information on how to set up this TV's **Control for HDMI** function. 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 through the connected equipment by One-Touch-Play.
- Equipment listed under the **External Inputs** on the **XMB**_{TM} will turn on automatically when selected, see pages 5 and 38.
- Possible operations with **BRAVIA Sync** buttons, see page 19.

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.
- Automatically switching to the audio output of the A/V receiver's attached speakers.
- Adjusting the volume and muting of the A/V receiver with the TV's remote control.

to

• The A/V receiver cannot be selected from the **XMB**_{TM}.

Using DIGITAL MEDIA PORT Adapter

Connecting a DIGITAL MEDIA PORT

(DMPORT) adapter lets you display photos and play videos and music from a portable player on your TV.

The DMPORT adapter's menu and portable player can be controlled via the TV's remote control. The DMPORT input can be selected by pressing **INPUT**.

By pressing **~**, **PLAY**, **PAUSE**, **>** or **STOP** you may be able to navigate through the portable player's menu.

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- Viewing the equipment's menu on the TV and controlling it via the TV's remote control depends on the equipment; refer to the portable player's operating instructions.
- Available DIGITAL MEDIA PORT adapters vary in each area.
- Do not connect an adapter other than the DIGITAL MEDIA PORT adapter.
- If the portable player is capable of sending video signals, then the DIGITAL MEDIA PORT will have video output. In this case, the system outputs a composite video signal.
- Check compatibility between portable player and the DIGITAL MEDIA PORT adapter.
- The output volume level between the DMPORT input and TV or other equipment input may be significantly different; adjusting the TV or other equipment's volume may be necessary.

Using P&P and PIP Features

This TV comes with the **P&P** and **PIP** features which allow you to view two pictures simultaneously. **P&P** (picture and picture) provides two windows side by side. **PIP** (picture in picture) provides PC input signal and TV channels.

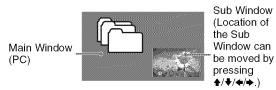
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- The CABLE/ANTENNA input must be connected to use the **P&P/PIP** features.
- **P&P** is not available with 1080/24p video format.
- Closed Captions (CC) is available with P&P and PIP (see page 47).

P&P



PIP



To Enter P&P and PIP

- 1 Press **OPTIONS** while watching one of the following inputs: TV channels, Video, Component, HDMI, DMPORT or PC.
- **2** Press \bigstar / \bigstar to highlight **P&P** or **PIP** and press (\div).

P&P Supported Inputs		
In main window	In sub window	
Video 1/2/3		
Component 1/2	TV channel	
HDMI IN 1/2/3/4	(CABLE/	
(except PC timing)	ANTENNA)	
DMPORT		

PIP Supported	Inputs
In main window	In sub window
PC	TV channel
HDMI IN 1/2/3/4 (PC timing)	(CABLE/
	ANTENNA)

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- To swap audio in **P&P** mode, use the **∢/**→ button to swap the highlight between the Main Window and Sub Window.
- To swap audio in **PIP** mode, press **OPTIONS**, then press **♦/**♥ to highlight **Audio Swap**.
- For compatible PC Timings, refer to the PC Input Signal Reference Chart (see page 14).

To Change Inputs or Channels (P&P)

Press \bigstar to highlight the window to change for **P&P**.

- In the main window, press **INPUT** to select an input to watch.
- In the sub window, change the channel by: pressing CH+/-; entering the channel number using the 0-9 numeric buttons; or pressing JUMP to switch to the previously viewed channel.

To Change Channels (PIP)

You can change the channel of the sub window by pressing **CH+/–**; entering the channel number using the **0-9** numeric buttons; or pressing **JUMP** to switch to the previously viewed channel.

To Exit from P&P and PIP

1 Press **OPTIONS**.

Press **↑/** to highlight Exit P&P or Exit PIP (depends on the mode you are in), and press (+) to exit.

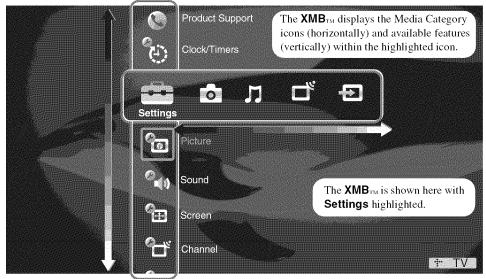
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- You may also press **RETURN** while in these features to exit.
- Additional compatible device with TV tuner is required to watch two simultaneous live TV programs.

Using TV Settings



The **HOME** button allows you to access the **TV Home Menu** on the **XMB**_{TM} (XrossMediaBar) as well as a variety of TV features.



Media Category Icons

	Adjusting TV Settings
Settings	Customize the TV settings with various options.
settings	Explanations of different Settings start on page 40.
	• The available options vary depending on the situations and conditions applied. Unavailable options are grayed out or not displayed.
	Viewing Photos
Photo	View photos and customize slideshows (see page 30).
	Listening to Music
Music	Listen to music or add a music track to a slideshow (see page 32).
	Watching TV
	Navigate through the channel list or select the TV Guide On Screen icon located at the top
TV	of the channel list to select a channel (see page 34).
	• You can also select a TV channel using the 0-9 or CH+/– buttons (see remote control section on pages 20 and 23).
5	Accessing External Inputs
External Inputs	Watch a movie, play a game, record a program or work on your PC.
	Assign a label using the Manage Inputs feature for your convenience (see page 50).

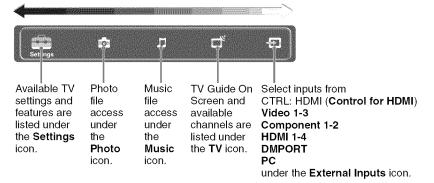
Navigating through TV Home Menu on XMB_{TM}

1 HOME

Press **HOME** to display the **XMB**_{TM}.

2 (.

Press **♦/** to select a Media Category icon.





Press **♦**/**♦** to move within the Category Object Bar. (The Category Object Bar shown below is for **Settings**.)

	Community .	
		Product Support (page 40)
	<u></u>	Clock/Timers (page 40)
	12-	Picture (page 41)
	Calif I	Sound (page 43)
	° 🗃 🗕 🚽	Screen (page 44)
	84	Channel (page 46)
	9 <u>e</u>	Closed Captions (CC) (page 47)
	62	Parental Lock (page 47)
	82-	External Inputs (page 50)
	<u> </u>	HDMI Settings (page 50)
		Network (page 51)
		General Setup (page 51)
IJ.	123	Initial Setup (page 52)
U.		

4 ↔ Press ↔ when desired item is highlighted.
5 ↔ Press ↔ or ★/★ to select the highlighted item.
6 ↔ Press RETURN or HOME to exit.

TV Settings Descriptions



Product Support

Contact Sony	Sony contact information is available from this screen for your convenience. Your TV's specific information such as Model Name, Serial Number, Software Version and downloadable ratings if available from the TV are displayed here.
Signal Diagnostics	Select to view the diagnostics information for the current signal.
Software Update	To view the current software version and check for software updates, the network must be connected to the TV or a broadcast download must be available (for U.S. customers only). Press ↑/ ◆ to choose the new version (if available) and press ↔ to begin the software update.
	 The Cable/Antenna cable needs to be connected directly to the TV and have digital TV programming (not available with the use of a cable box). The broadcast download is performed while the TV is off. The software update is performed while the TV is powered on. Do not turn off the TV during the software update, it may damage the TV software.

Clock/Ti	mers Settings
Current Time	Set the current day and time (date, hour, minutes, and AM/PM). The Timer feature will not be available until you set the Current Time .
	ØD.
	• If the option is disabled, the TV Guide On Screen has automatically set the time.
Timer	Timer can be set to have the TV tune to a certain TV channel or other connected equipment as well as a specified volume at the specified time and duration you set. Turning on the Timer will allow setting the following: Day of the Week , Time , Duration , Input , Channel , and TV On Volume .
Sleep Timer	Sets the time in minutes (Off, 15 min, 30 min, 45 min, 60 min, 90 min , or 120 min) that you want the TV to remain on before shutting off automatically.

Picture Settings

Picture Adjustments	Picture Mode	Vivid	For enhanced picture contrast and sharpness.
	For Video	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 Photo	Photo-Vivid	For enhancing contrast and sharpness.
		Photo-Standard	For standard viewing; select for home use.
		Photo-Original	Images resemble the printed pictures from your photo album.
		Photo-Custom	Allows you to store your preferred settings.
	For PC Timings	Video	This option is available for PC timing (HDMI or PC input) signal to enhance the video shown on the screen.
		Text	This option is available for PC timing (HDMI or PC input) signal to enhance the text shown on the screen.

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- **Picture Mode** for all inputs can also be accessed by pressing **PICTURE** on the remote control to directly toggle the modes.
- The options for **Picture Mode** may vary depending on the **Video/Photo Optimizer** setting (see page 43) and PC input.

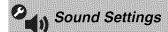
	· •		
Reset	Resets the current settings to the default values.		
Backlight	Brightens or darkens the backlight.		
Picture	Increases or decreases picture contrast.		
Brightness	Brightens or darkens the picture.		
Color	Increases or decreases color intensity.		
Hue	Increases or decreases the green tones.		
Color Temperature	Cool	Gives the white colors a bluish tint.	
White adjustment	Neutral	Gives the white colors a neutral tint.	
	Warm 1, 2 Gives the white colors a reddish tint.		
	• The option Warm 1 , 2 is not available for Vivid and Photo-Vivid .		
Sharpness	Sharpens or softens the picture.		
Noise Reduction	Reduces the picture noise level.		
MPEG Noise Reduction		c effect in MPEG-compressed video. Useful for l digital TV channels.	

	Advanced Settings	Available in the following Picture Modes : Standard, Cinema, Custom, Photo-Standard, Photo-Original , and Photo- Custom .		
		Reset	Resets all the advanced settings to the default values.	
		Black Corrector	• Enhances black areas of the picture for stronger contrast.	
		Advanced C.E. (Advanced Contrast Enhancer)	Automatically optimizes the backlight and contrast. This setting is especially effective for dark picture scenes.	
		Gamma	Adjusts the balance between light and dark areas of the picture.	
		Clear White	Emphasizes white and light colors.	
		Color Space	Selects the range of color reproduction from Wide or Standard .	
		Live Color	Available when Color Space is set to Wide . Makes colors more vivid and reproduces clear skin tones.	
		White Balance	Adjusts the color temperature in detail.	
	remote contro menu. • Picture setti	ol, then selecting Pictu ngs available during PC	so be accessed by pressing OPTIONS on the re Adjustments settings from the OPTIONS c input are Picture Mode , Reset , Backlight ,	
Motion Enhancer	remote contro menu. • Picture setti Picture, Bri	ol, then selecting Pictu ngs available during PC ghtness , and Color T	re Adjustments settings from the OPTIONS Cinput are Picture Mode, Reset, Backlight, Cemperature.	
Motion Enhancer	remote contro menu. • Picture setti Picture, Bri	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s	re Adjustments settings from the OPTIONS Cinput are Picture Mode, Reset, Backlight, Cemperature.	
Motion Enhancer	remote contro menu. • Picture setti Picture, Bri Activates Moti	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Cemperature. Smoothness of picture movement and to reduce blur	
Motion Enhancer	remote contro menu. • Picture setti Picture, Bri Activates Moti High	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. moothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. nen the High and Standard settings result in video	
Motion Enhancer	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. moothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. nen the High and Standard settings result in video	
Motion Enhancer	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard Off • A noticeable	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh artifacts such as gh change may be seen dep	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. Smoothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. then the High and Standard settings result in video nosting.	
	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard Off • A noticeable • Motion Enh Automatically	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh artifacts such as gh change may be seen dep nancer is not available detects film-based cont	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. Smoothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. then the High and Standard settings result in video nosting.	
	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard Off • A noticeable • Motion Enh Automatically	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh artifacts such as gh change may be seen dep ancer is not available detects film-based cont stimation engine to imp Applies an inverse estimation to obtai	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, emperature. moothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. nen the High and Standard settings result in video nosting. pending on the video. when Game Mode is set to On. ent and applies an inverse 3-2 pull-down process	
	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard Off • A noticeable • Motion Enh Automatically and a motion e	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh artifacts such as gh change may be seen dep ancer is not available detects film-based cont stimation engine to imp Applies an inverse estimation to obtai of moving images.	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. Smoothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. Then the High and Standard settings result in video nosting. pending on the video. when Game Mode is set to On. ent and applies an inverse 3-2 pull-down process prove film content and de-interlacing performance. 3-2 pull-down process along with motion n the smoothest picture quality and reduces artifacts . Select for standard use. Inverse 3-2 pull-down process. Picture movement	
Motion Enhancer CineMotion	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard Off • A noticeable • Motion Enh Automatically and a motion e Auto 1	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh artifacts such as gl change may be seen dep ancer is not available detects film-based cont stimation engine to imp Applies an inverse estimation to obtai of moving images. Applies only the in	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. moothness of picture movement and to reduce blur picture movement for film-based content. icture movement. Use this setting for standard use. then the High and Standard settings result in video nosting. pending on the video. when Game Mode is set to On. ent and applies an inverse 3-2 pull-down process prove film content and de-interlacing performance. 3-2 pull-down process along with motion n the smoothest picture quality and reduces artifacts Select for standard use. hverse 3-2 pull-down process. Picture movement he original film.	
	remote contro menu. • Picture setti Picture, Bri Activates Moti High Standard Off • A noticeable • Motion Enh Automatically and a motion e Auto 1 Auto 2	ol, then selecting Pictu ngs available during PC ghtness , and Color T onflow to enhance the s Provides smoother Provides smooth p Use this setting wh artifacts such as gh change may be seen de ancer is not available detects film-based cont stimation engine to imp Applies an inverse estimation to obtai of moving images. Applies only the ir will be similar to t	re Adjustments settings from the OPTIONS C input are Picture Mode, Reset, Backlight, Temperature. moothness of picture movement and to reduce blue picture movement for film-based content. icture movement. Use this setting for standard use. then the High and Standard settings result in video hosting. pending on the video. when Game Mode is set to On. ent and applies an inverse 3-2 pull-down process prove film content and de-interlacing performance. 3-2 pull-down process along with motion in the smoothest picture quality and reduces artifacts. Select for standard use. hverse 3-2 pull-down process. Picture movement he original film.	

Game Mode	Select On to optimize the enjoyment of fast paced video games where response time is important. Select Off to disable this feature.		
	لگ • The Game I	Mode can be set separately for each external input (except PC IN).	
Video/Photo Optimizer	Sets the picture settings to optimize the image quality of video (moving pictures) or photo (still image) content. Feature is only available for 1080i/p (excluding 1080/24p) content connected to the Component or HDMI input.		
	Video-A	The TV will automatically set the picture settings for video or still image content when Sony optional equipment that supports Video-A mode is connected to the HDMI input.	
	Video	Select to set the picture settings for video.	
	Photo	Select to set the picture settings for photos.	

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• Game Mode and Video/Photo Optimizer features are not available when Theater Mode is set to On.



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

Sound Adjustments	Sound Mode	Dynamic	Enhances treble and bass.
		Standard	Standard sound optimized for home use.
		Clear Voice	Suitable for spoken dialog.
	Reset	Resets the current	settings to the default values.
	Treble	Increases or decreases higher-pitched sounds.	
	Bass	Increases or decreases lower-pitched sounds.	
	Balance	Emphasizes left or right speaker balance.	
	Surround	S-FORCE Front Surround	Provides a virtual surround sound experience made possible using just two front speakers.
		Off	Select for normal stereo or mono reception.
	Voice Zoom	Adjusts the clarity of human voices. For example, if the voice of a news announcer is indistinct, you can turn up this setting to make the voice clearer. Conversely, if you are watching a sports program, you can turn down this setting to soften the voice of the commentator.	
	Sound Booster	• The Sound Booster provides a fuller sound with a greater sense o depth and width, by emphasizing the high and low frequency sounds Select High , Low or Off for the amount of boost you desire. Selecting Off will bypass the emphasis.	
		1 December 1	
		• Only available when in Standard mode.	
	Steady Sound		ize the volume across all programs and ct Off to disable this feature.
	Volume Offset	Adjusts the volume relative to other in	e level of the current input (TV or video input) puts.

• Sound Adjustments can also be accessed by pressing OPTIONS on the remote control.

MTS Enjoy stereo, bilingual	Stereo	For stereo reception when viewing a TV program broadcasted in stereo.	
and mono programs	Auto SAP	Automatically switches the TV to second audio programs when a SAP signal is received. If no SAP signal is present, the TV remains in Stereo mode.	
	Mono	For mono reception. Use to reduce noise during weak stereo broadcasts.	
	10		
	• MTS is available	e only for analog programs.	
	• MTS can also be	e accessed by pressing OPTIONS on the remote control.	
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.	
Audio Out Easy control of volume adjustment	Fixed	Select to fix the audio output and allow you to adjust the volume with your audio system's remote control. (The TV's remote control's VOL and MUTING buttons have no effect on the Audio Out .)	
	Variable	Select to control the volume of your TV's speakers or audio system with your TV's remote control.	
Woofer Level	Increases or decreases the low frequency sounds.		

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• Alternate Audio is available only for digital programs. If the program you are watching is also available in other languages from the audio tracks, and if that language is what you have selected in the Language setting, your TV will automatically switch to the matching language with the Alternate Audio feature. The Alternate Audio option may be accessed by pressing OPTIONS on the remote control when an alternate audio stream is available from the broadcaster.

Ø _∓	Sc	reei	n Se	ettir	ngs			

Wide Mode	Wide Zoom	Fills the screen with minimum distortion.				
	Normal	 Displays the 4:3 picture in its original aspect ratio when the original source is 4:3. Enlarges the picture horizontally to fill the screen when the original source is 4:3. When the original source is 16:9 (High-definition source), select this mode to display the 16:9 picture in its original size. Enlarges the picture horizontally to fill the screen when the original source is 16:9. It is useful for HD channels with 4:3 content. 				
	Full					
	H Stretch					
	Zoom	m Select to enlarge the picture horizontally and vertically to fill the screen while maintaining the aspect ratio.				
	 See WIDE bu Normal is av 	e can also be accessed by pressing WIDE on the remote control. button description on page 21 for accessing the Wide Mode . available with 480i or 480p sources only. as only available with 720p, 1080i, 1080p and 1080/24p sources.				
Auto Wide	On	Automatically changes Wide Mode setting based upon content. If frequent screen changes are disturbing to you, select Off .				
	Off	Turns off the Auto Wide option. Choose a Wide Mode from the Wide Mode option.				

4:3 Default Select the default screen	Wide Zoom	Enlarges the 4:3 picture to fill the 16:9 screen, displaying as much of the original image as possible.			
mode to use for 4:3 sources	Normal	Displays the 4:3 picture in its original aspect ratio.			
sources	Full	Select to enlarge the 4:3 picture horizontally only, to fill the screen. Select to enlarge the picture horizontally and vertically to fill the screen while maintaining the aspect ratio.			
	Zoom				
	Off	Select to continue using the current Wide Mode setting when the channel or input is changed.			
	 4:3 Default is not available if Auto Wide is set to Off. 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. 				
Display Area	Full Pixel	Displays the picture for 1080i, 1080p or 1080/24p sources in its original size.			
	Normal	Displays the picture in its original size.			
	-1/-2	Enlarges the picture to hide the edges of the picture.			
	ÆD				
	 For 720p, 1080i, 1080p and 1080/24p, feature is only available when Wide Mode is set to Full. 				
Screen Position	Adjust the Vertical positioning by pressing \bigstar/\clubsuit . Press \bigstar/\clubsuit to adjust the Hori positioning.				
	• Vertical position	tion feature is useful if the TV is connected to game equipment. on is available only when Wide Mode is set to Zoom. ition signals, Vertical and Horizontal positions are not available.			
Vertical Size	Adjusts the verti	cal size of a standard-definition picture.			
	 Vertical Size standard-definit 	is available only when Wide Mode is set to Wide Zoom or Zoom for ition channels.			
Screen settings for PC	timings and HDN	II-PC (PC input) differ from all other input modes and are shown below.			
Auto Adjust	Select Yes to sta	art the auto adjust for the PC input.			
Reset		gs to the default values.			
Phase	Adjust after Pite	ch to fine tune overall sharpness.			
Pitch	0	harpness on screen.			
	Ø				
	• For the PC Inp	ut Signal Reference Chart, see page 14.			
H Center		nove the position of the picture horizontally (left and right).			
V Center		ove the position of the picture vertically (up and down).			
Wide Mode	Normal	Select to display the picture in its original resolution and aspect ratio.			
	Full 1	Select to enlarge the picture to fill the screen, while maintaining its original aspect ratio.			
	Full 2	Select to enlarge the picture to fill the screen.			
	لا • Wide Mode د	an also be accessed by pressing WIDE on the remote control.			

• Phase and Pitch options are not available with PC signal connected to HDMI input.

Using TV Settings

Channel Settings

Signal Type	Cable	For receiving cable channels via cable TV provider.	
	Antenna	For receiving signal via over-the-air antenna.	
	do		
	• You should run	Auto Program after changing the Signal Type setting.	
Auto Program	 Automatically sets the channel list in the TV for all receivable channels. Channel scanning will be based on the Signal Type (Cable/Antenna) setting. Select Auto Program. Select OK to start Auto Program. When Auto Program is completed, the screen will display the number of channels found. 		
		JRN to exit Auto Program.	
	type.	Program will clear the Favorites channel list for the current signal o Program again, previously scanned channels will be overwritten with ned channels.	
Add Digital Channels		ital channels. Be sure to have the Signal Type option selected the signal source. (Useful for antenna installations.)	
Show/Hide Channels	 channel list on the second second	o scroll through the channels until you highlight the channel to show or select Shown or Hidden . hide more channels, repeat steps 1-2. els can be accessed by entering the channel number with 0-9 buttons on	
	the remote con		
Edit Channel Labels	1 Press ↑/ to	such as station call letters) to channel numbers. (\Rightarrow) to select the channel sisting a label.	
	the next cha	o scroll through the label characters (A-Z, 0-9, etc.). Press \blacklozenge to move to aracter. Repeat to add up to 7 characters to the label. Press \bigoplus to set it. Ibels to more channels, repeat steps 1-2.	
	↓← This feature is	not available when using the TV Guide On Screen system.	

cc Closed Captions (CC) Settings

CC Display	This option allows you to view Closed Captions (CC).			
	On	Enables CC Display . Disables CC Display .		
	Off			
	On with Muting	Automatically displays closed captions when the TV is muted.		
Analog CC	For the basic analog (EIA-608) closed caption options.			
	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.)		
	Text1, Text2, Text3, Text4	Displays network/station information presented using either half or the whole screen (if available).		
Digital CC	For both analog (EIA-608) and digital (EIA-708) closed caption options. Select from Service 1-6 and CC1-4 (advanced digital closed caption options).			
Display Options	Character Style	osed Captions (CC) displays with Text, Character Size, , Character Color, Character Opacity, Edge Type, Edge Color, Ior and Background Opacity.		

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• Closed Captions (CC) can be turned On, Off or On with Muting directly by pressing CC on the remote control.

Parental Lock Settings

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.

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• 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.

Password	Use 0-9 button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password. "Password set" message will appear on the screen upon confirmation.
	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.
	 You need your password for any future access into the Parental Lock settings. If you lose your password, see "Lost password" on page 56.
Country	Select the country name of U.S.A. or Canada for the appropriate ratings. The rating system varies between these two countries. See Custom Rating System Chart on page 49.

Off	Turns off Parental Lock . No based on their ratings.	programs are blocked from viewing
Child	Ratings permitted are:	
	United States	
	TV Rating: TV-Y, TV-G	MPAA: G
	Canada	
	English TV Rating: C, G	French TV Rating: G
Youth	Maximum ratings permitted a	re:
	United States	
	TV Rating: TV-PG	MPAA: PG
	Canada	
	English TV Rating: PG	French TV Rating: 8 ans+
Young Adult	Maximum ratings permitted a	re:
-	United States	
	TV Rating: TV-14	MPAA: PG-13
	Canada	
	English TV Rating: 14+	French TV Rating: 13 ans+
Custom	Sets ratings manually.	
	U.S.: See page 49 for details.	
	Canada: See page 49 for detai	ls.

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Rating

• 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**.

Digital Rating (Available only in U.S.A.	Off	 Turn Digital Rating off. No programs containing digital ratings are blocked from viewing. Select to customize the Parental Lock with downloadable digital ratings. 			
where advanced ratings exist)	Custom				
	Clear All	Select to clear the downloaded ratings.			
Unrated	Allow	Allows programs and movies that are broadcasted without a rating.			
(Available only when Country is set to U.S.A.)	Block	Blocks all programs and movies that are broadcasted without a rating.			
	• If you block be blocked:	unrated TV programs, be aware that the following types of programs may programs broadcast from another country, emergency broadcasts, political ports, news, public service announcements, religious programs and weather.			
Channel Block	to be set up pr	block specific channels regardless of program ratings. The password needs ior to blocking channels. The blocked channel can only be viewed by prrect password.			
	To View a Blocked Channel				
	Press ENT wh	nen tuned to the blocked channel then enter the password.			

Custom Rating System Chart

Movie Rating	G	All children and general audience			
	PG	Parental guidance suggested			
	PG-13	Parental guidance for children under 13			
	R	Restricted viewing, parental guidance is suggested for ages under 17			
	NC-17 and X	No one 17 or under allowed			
TV Rating	Age-Based Ratin	ngs			
Block programs by their rating, content or both	TV-Y	All children			
rating, content or both	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 F	Ratings			
	FV	Fantasy violence			
	D	Suggestive dialogue			
	L	Strong language			
	S	Sexual situations			
	V	Violence			
	1/2				
	0	imum blocking capability, set the Age-Based Ratings.			

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

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

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 TV Ratin	g under U.S.A. for details.

Manage Inputs		by below to customize your input menu for easy recognition when the is pressed or when selecting an input from the XMB_{TM} .	
	1 Press ↑/ ↓ to highlight your input selection.		
	2 Press \oplus display th connected	to set Enable setting to either Always or Auto . The Always option will is input in the input menu at all times. With the Auto option, the input with i con will only appear when external equipment is connected and/or an gnal is present. Some external equipment may not be detected	
	 ♦/♦ to ch ✓ You can –, DVD Camco 	your own label to the input, press → to highlight the label option, then press oose a name of the equipment that is connected to this input. assign the following labels for each input (except PC IN and DMPORT): , Cable Box, Satellite, BD, VCR, Receiver, DVR, Game, order, PC. cates that no labels are assigned.	
		ntrols how the remote control channel tuning keys (0-9, CH+/- and	
Channel Tuning Keys		e while using an external input.	
Channel Tuning Keys			
Channel Tuning Keys	JUMP) behave	e while using an external input. Select to allow the TV to exit from the external input and return to a	

HDMI Settings

HDMI inputs of this TV will recognize and communicate with other Sony equipment equipped with **Control for HDMI** function.

Control for HDMI	On/Off feature allows your TV to communicate with other equipment that supports Control for HDMI function.
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 .
TV Auto Power On	Select On to control your TV's power on from your connected equipment with Control for HDMI function. Select Off to disable this function. This feature is available when Control for HDMI is On .
Device List	Displays a list of equipment with Control for HDMI function connected to the TV.
1/2	

• Press **OPTIONS** while the equipment supporting **Control for HDMI** is connected to display the **Device Control** options. The **Device Control** option provides access to the **Menu**, **Options** and **Content List** of your connected equipment with your TV remote control.

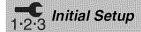
• Some equipment with Control for HDMI does not support the Device Control feature.

Network S	ettings			
Network Setup		twork Setu	TV's accessibility to your network via an Ethernet cable and IP or review your TV's current network settings. Select your pe.	
	Easy	The TV will automatically configure your network settings. Most networks can be configured with this option.		
	Custom	This option allows you to manually enter the IP address and proxy (FOR ADVANCED USERS ONLY).		
		Auto	Select to populate the IP address and jump to the proxy setting selection.	
		Manual	Select to manually enter an IP address. If you would like to use a proxy setting, select Use , if not, select Don't Use .	
	Review	Select to v	iew current network settings.	
Show/Hide Servers	Allows you to show or hide available DLNA Certified media servers. When in Shifts Servers menu, press OPTIONS to display the items below.			
	Delete All	Select to d	elete all connected servers.	
	Update List	Select to u	pdate the server list.	
	Details	Select to d	isplay the detailed information of the connected server.	
	Delete	Select to d	elete the highlighted server.	
	Ø			
	• The items a Servers m		ly be accessed by pressing OPTIONS while in the Show/Hide	
Server Diagnostics	Select to view	the server	diagnostic information.	

V and	A		· · · · · · · · · · · · · · · · · · ·	n - 1	
Annual Contraction	Gen	erals	7-11010	51210	HALOLS

Language	Select the language of your choice from English , Español and Français to be used for displaying all the on-screen settings.			
Info Banner	Displays the program name and the program information such as program title and program rating (if available from the broadcaster). Select the amount of program information to display when tuning.			
	Small	Select to display minimal channel and program information.		
	Medium	Select to display channel and program information.		
	Large	Select to display detailed channel and program information.		
USB Auto Start		when DISPLAY on the remote control is pressed. matically display photos when a camera is connected via USB.		
	Slideshow	Select to view JPEG files as a Slideshow .		
	Thumbnail View	Select to view JPEG files up to 60 thumbnails at a time.		
	Off	Select to disable this function.		
	اللہ Press HOMI	on the remote control to exit this function.		

Home Menu Scrolling	Adjust the nav	/igation speed through menu items.	
C C	Standard Select to scroll quickly with $4/4$ buttons.		
	Mode 1	Select to scroll slowly with ↑ / ↓ buttons.	
	Mode 2	Select to scroll individually with repeated $4/4/4$ button press.	
Power Saving	Reduces the power consumption by adjusting the backlight brightness. This also enhances the black level. Select from Off , Low , High and Picture Off .		
	ø bi		
		IFE OFF is set, pressing VOL +/– or MUTING buttons will not disable this ess other buttons to disable it.	
Light Sensor	Enables the automatic picture (screen) brightness control. The Light Senso l the room brightness which allows the TV to automatically adjust the backligh 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 (see page 18). In low light the range of the backlight control is reduced when the Light Sensor is set to On. 		
PC Power Management	Select On to have the TV automatically enter standby mode when there is no signal input for more than 30 seconds. The STANDBY LED on the front panel illuminates with the On option. Select Off to disable this feature.		
	• Press POW	ER to exit from standby mode.	
	PC Power	Management is not VESA-compliant.	
Logo Illumination	Select On to illuminate the SONY logo on the front panel or select Off to disable this function.		
Picture Adjustments Lock	Select Lock to prevent the picture adjustments from being changed. To disable this feature and allow picture adjustments, select Unlock .		



If you missed the **Initial Setup** when you first connected 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 Adjustments**, **Sound Adjustments**, 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 56.

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

Troubleshooting

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

ondition	Explanation/Solution	
o picture		
No picture	Check the Power Saving settings (see page 52).	
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. 	
TV is locked to one channel	• Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 16 and 46).	
Cannot receive or select channels	 Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 16 and 46). To receive or select cable channels, make sure that Signal Type in the Channel settings is set to Cable (see page 46). 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, or confirm the Duration setting of Timer (see page 40). Check PC Power Management in General Setup settings (see page 52). 	
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 22). Press HOME on the remote control. Select your desired input from the External Inputs list. 	
or 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 regulated 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. Confirm the picture quality by selecting Signal Diagnostics in the Product Support settings (page 40). Then select Sample Image (or Additional Information first). An HD image will display on the screen to confirm routine panel operation. If your normal picture quality is worse than this sample image, it is most likely due to the signal provided by the broadcaster. 	
Double images or ghosts	 Check cable/antenna connections. Check the antenna location and direction. Set the Motion Enhancer to Standard or Off (see page 42). 	
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. 	

Condition	Explanation/Solution
No color / Dark picture / Color is not correct / The picture is too bright	 Press PICTURE to select the desired Picture Mode (see page 22). Adjust the Picture Mode options in the Picture settings (see page 41). If you set the Power Saving mode to Low or High, it will enhance the black level (see page 52).
Noisy picture	 Make sure that the antenna is connected using a 75-ohm coaxial cable. 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.
lo sound / Noisy sound	
No sound / Good picture	 Check the volume control. Press MUTING or VOL + so that "Muting" disappears from the screen (page 20). Set Speakers to TV Speakers in the Sound settings (see page 44). 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, and change the Alternate Audio language (see page 44).
Audio noise	 Make sure that the antenna is connected using a 75-ohm coaxial cable. 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	 Press THEATER for BRAVIA Sync activated Theater System (see page 19). Set Speakers to Audio System in the Sound settings (see page 44). Set Audio Out to Fixed in the Sound settings (see page 44).
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 36).
Cannot control second AV receiver	• Only one A/V receiver may be used with the BRAVIA Sync and Control for HDMI functions at one time (see page 50).
DLNA	
DLNA Certified TM Photo Media Player is not connecting to the server	 Check the LAN cable/connection to your server and your TV. Check if your network is properly configured on your TV. See Network Setup on page 51.
When "Network disconnected" appears on your TV screen	 Check the current network settings. From the Network icon located on the XMB_{TM}, select Network Setup, then the Review option. If all of your network settings are 0.0.0.0, your server may not be connected properly. Check your network connections and/or server's instruction manual for connection information. Reconfigure your network settings. See Network Setup on page 51. If the LAN cable is connected to an active server and the TV has acquired an II Address, check your DLNA Certified media server's connections and configurations.
	• Your IP Address configuration can be viewed by selecting the Review option See Network Setup on page 51.
DLNA Certified TM server is listed under the Photo icon, but is inaccessible	• The TV may have lost connection with the server, check your LAN cable/ connection or your server connections.

ondition	Explanation/Solution
C Input	
No picture / No signal	 Confirm the PC is correctly connected to the TV with either the PC IN (with a HD15 cable) or with the HDMI IN. Ensure the output signal from the PC is one of the formats listed on page 14. 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 (see page 52). Verify the PC is not in standby or hibernation mode.
Poor Picture	 Adjust the resolution (see page 14). Adjust Pitch and Phase.
eneral	
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 the Screen settings is set to other than Off. If you want to lock in Wide Mod selected with WIDE on the remote control, set 4:3 Default to Off in the Screen settings (see page 44). Check the Auto Wide option in the Screen settings (see page 44).
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 21). This setting we 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 47). To turn of 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 (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 ar 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, H Stretch or Zoom to fill the screen, which will remain in affect until you change the channel or input or manually change the Wide Wide Mode again.
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 le detail than usual, or cause artifacts (small blocks or dots, pixelations) to appe 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 of 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 T Keep the remote control sensor area clear from obstacles. Fluorescent lamps can interfere with your remote control operation; try turnin off the fluorescent lamps.

(Continued)

ndition	Explanation/Solution	
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 46). 	
Some photo files or music files are not displayed from my USB equipment or DLNA Certified media server	• The accessible file or folder limit in a directory is 1,000 for USB and 30,000 for a DLNA Certified media server. This limit includes non-JPEG, MP3 files or just folders. Files or folders are populated based on their time stamps. Photo, must files or folders exceeding the limit will not be displayed.	
Photo images appear small in the screen	 Set Display Size to Expanded (see page 31). 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 47).	
How to reset the TV to factory settings	• Turn on the TV. While holding down ★ on the remote control, press POWER on the TV. (The TV will turn itself off, then back on again.) Release ★. WARNING: The reset will clear all of your customized settings including the Parental Lock setting.	
The speaker grill is loose	• Orient the speaker grill so that the location of the marks on the speaker grill an TV match, insert the protrusions on the speaker grill into the holes on the TV, and support gently. Check that the speaker grill and TV are in contact without any gaps, and then secure it by pushing and sliding the speaker grill left into place.	

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.

Specifications

Model	KDL-40XBR6	KDL-46XBR6	KDL-52XBR6	
System				
Television system	NTSC: American TV standard			
	ATSC (8VSB terrestrial): ATSC compliant 8VSB			
Channel	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) P	Cable, 1 - 155		
T aner system	ECD (Exquire Crystar Display) I		10W(L) + 10W(R) + 15W	
Speaker output	8W(L) + 8W(R) + 11W (Assis	t Woofer)	(Assist Woofer)	
Input/Output jacks	1			
CABLE/ANTENNA	75-ohm external terminal for RI	Finputs		
VIDEO IN 1/2/3		DEO 1 only): Y: 1.0 Vp-p, 75 ohms un	abalanced, sync negative /	
	C: 0.286 Vp-p (Burst signal), 75	ohms	ioninited, c, ite insginited i	
	VIDEO: 1 Vp-p, 75 ohms unbal			
	AUDIO: 500 mVrms (Typical) /			
COMPONENT IN 1/2		1.0 Vp-p, 75 ohms unbalanced, sync n		
		format: 480i, 480p, 720p, 1080i, 1080j	p	
	AUDIO: 500 mVrms (Typical) /		annel linear PCM 32, 44.1 and 48 kHz, 16, 20	
HDMI IN 1/2/3/4		1080i, 1080p, 1080/24p7 Audio: 1wo ch	lanner Intear PCIM 52, 44.1 and 48 KHZ, 10, 20	
	and 24bits, Dolby Digital AUDIO (HDMI IN 4 only): 500 mVrms (Typical) / Impedance: 47 kilohms			
AUDIO OUT	500 mVrms (Typical)	in (this (t) pread) / in pedaneer (/ in)	omino	
DIGITAL AUDIO OUT	PCM/Dolby Digital optical sign	al		
(OPTICAL)				
PC IN	D-sub 15-pin, analog RGB, 0.7	Vp-p, 75 ohms, positive		
	See the PC Input Signal Referen			
PC AUDIO INPUT	Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms		
LAN (10/100)	10 BASE-T/100 BASE-TX Con	nector (connection speed may vary de	pending on the network environment. This	
	product does not guarantee netw	ork quality or speed of 10 BASE-T/10	00 BASE-TX terminals.)	
DMPORT	VIDEO: 1 Vp-p, 75 ohms unbal			
	AUDIO: 500 mVrms (Typical)	'Impedance: 47 kilohms		
USB	Hi-Speed USB			
Power and others				
Power requirement	120 V AC, 60 Hz			
Power consumption			205.11	
in use	225 W	285 W	295 W	
in standby	All models less than 0.2 W*		1.5-	
Screen size	40	46	52	
(inches measured diagonally)				
Display resolution	1,920 dots (horizontal) \times 1,080	lines (vertical)		
Speaker/Front (2) (mm)	34×104 1 $3/8 \times 4^{-1}/8$			
(inches)				
Tweater (2) (mm) ø	30 $1^{1}/8$			
(inches) ø				
Assist Woofer (mm)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		55×120 2 ¹ / ₈ × 4 ³ / ₄	
(inches)	2 × 4	1	2 /8 × 4 /4	
Dimensions (W x H x D)	052 (04 070	1000 765 207	1057 974 244	
with stand (mm)	953 x 684 x 279 37 ⁵ /8 x 27 x 11	1089 x 765 x 307 42 ⁷ /8 x 30 ¹ /8 x 12 ¹ /8	1257 x 874 x 346 49 ¹ /2 x 34 ¹ /2 x 13 ⁵ /8	
(inches)				
without stand (mm)	953 x 645 x 103 37 ⁵ /8 x 25 ¹ /2 x 4 ¹ /8	1089 x 723 x 104 42 ⁷ /8 x 28 ¹ /2 x 4 ¹ /8	1257 x 831 x 127 49 ¹ /2 x 32 ³ /4 x 5	
(inches)		42 78 X 28 72 X 4 78	49 12 x 52 14 x 5	
wall-mount hole pattern	300×300			
(mm)	M6 (length: refer to diagram on			
wall-mount screw size		10,	25.5	
Mass with stand (kg)	20.0 45.0	23.5 52.0	35.5 79.0	
(lb.)				
without stand (kg)	23.5 52.0	28.0 62.0	42.5 94.0	
(lb.)				
Supplied accessories		/ Size AA batteries (2) / AC power cor ons (1) / Quick Setup Guide (1) / Warr	d (1) / Cable holder (1 attached to the Table-	
	Booklet (1)	ons (1)/ Quick setup Guide (1)/ warr	any Caru (1)7 Sarcty and Regulatory	
		XBR only: Attaching the Table-Top S	tand (1) / Screws (4)	
Optional accessories			ount Bracket: SU-WL500 / TV Stand: see	
	page 2			
	•			

* While the TV is collecting TV Guide data and/or during software update the power consumption is less than 30 W. Ø

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

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For Your Co	nvenience			
 Please contact Sony Customer Support directly if you: Have questions on the use of your television after reading your Operating Instructions manual and Quick Setup Guide Experience difficulty operating your television 				
For United States				
http://www.sony.com/tvsupport				
or to speak with a support representative: 1	-800-222-SONY (7669)			
<u>For Canada</u>				
http://www.sony.ca/support				
or to speak with a support representative: 1-877-899-SONY (7669)				
Sony will work to resolve your questions more quickly than your retailer or place of purchase.				
Please Do Not Return the Product to the Store				
On-line Registration Available:				
Be sure to register your TV.				
United States	Canada			
http://productregistration.sony.com	http://www.sonystyle.ca/registration			



Body pages printed on recycled paper. http://www.sony.net/



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