

LCD Projection TV



Operating Instructions



KDF-37H1000

BRAVIA

Internet Video **Link** READY

Owner's Record

The model and serial numbers are provided under the Product Support in the TV menu or 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.

WARNING

To reduce the risk of fire or electric shock, do not expose this TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the TV's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the TV.

The TV shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

CAUTION

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

Declaration of Conformity

Trade Name: SONY
Model: KDF-37H1000
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.

Safety

- Operate the TV only on 120 V AC.
- Use the AC power cord specified by Sony and suitable for the voltage where you use it.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- When disconnecting AC power cord, the power cord should be easily accessible for disconnection.
- For details concerning safety precautions, see "Important Safety Instructions" on page 4.

Installing

- The TV should be installed near an easily accessible power outlet.
- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the TV at temperatures below 41°F (5°C).
- If the TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color due to moisture condensation. In this case, please wait a few hours to let the moisture evaporate before turning on the TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the TV in a room where the floor and walls are not of a reflective material.

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.

Trademark Information

Macintosh is a trademark licensed to Apple Computer, Inc., registered in the U.S.A. and other countries.

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

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

Blu-ray Disc is a trademark.

"BRAVIA" and BRAVIA, BRAVIA ENGINE EX, "XMB" and "XrossMediaBar", S-Force, BRAVIA Theatre Sync, DME³, BRAVIA Internet Video Link Ready and "PS3" are trademarks or registered marks of Sony Corporation and/or Sony Computer Entertainment Inc.



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


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Quick Setup Guide (separate volume)
Provides a variety of optional equipment
connection diagrams.



Customer Support
<http://www.sony.com/tvsupport>
On-line Registration
United States
<http://productregistration.sony.com>
Canada
<http://www.SonyStyle.ca/registration>

Important Safety Instructions

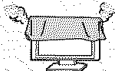
- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.



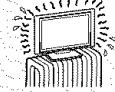
- 6) Clean only with dry cloth.



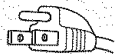
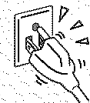
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



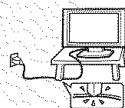
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- 11) Only use attachments/accessories specified by the manufacturer.



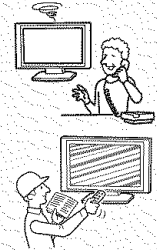
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.



- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



☐ Be sure to observe the TV's "For Safety" section on page 5.

Antennas Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

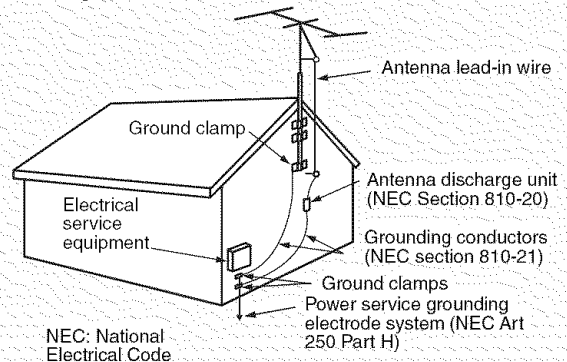
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Cleaning

- Clean the rear cover area of the TV regularly. Dust in the rear cover area may cause a problem with the cooling system of the TV set.
- Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning. If the picture becomes dark after using the TV for a long period of time, it may be necessary to clean the inside of the TV. Consult qualified service personnel.
- Unplug the AC power cord when cleaning this unit. Cleaning this unit with a plugged AC power cord may result in electric shock.



On Contamination on the Screen Surface

The screen surface has a special coating to reduce reflections. To prevent screen damage, clean the screen as follows:

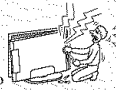
- Clean the screen with a soft cloth.
- To remove hard contamination, use a cloth moistened with a solution of mild detergent and water. Do not spray cleaning solution directly onto the TV. It should only be sprayed to moisten the cleaning cloth.
- Do not use any type of abrasive pad, alkaline cleaner, acid cleaner, scouring powder, chemical cloth, or solvent such as alcohol, benzene or thinner, as these may scratch the screen's coating.

Service

Damage Requiring Service

Do not attempt to service the set by yourself since opening the cabinet may expose you to dangerous voltage or other hazards.

Unplug the set from the wall outlet and refer servicing to qualified service personnel.



Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

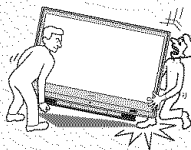
See "Replacing the Lamp" on page 39.

For Safety

Be Careful When Moving the TV

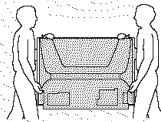
When you place the TV in position, be careful not to drop it on your foot or fingers.

Watch your footing while installing the TV.



Carry the TV in the Specified Manner

If you carry the TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.



- Carry the TV with the specified number of persons (see page 9).
- Hold the TV tightly when carrying it.
- Before carrying the TV, disconnect any accessories or cables.

About the TV

Although the TV is made with high-precision technology, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the screen. This is a structural property of the panel and is not a defect.

Installation

- If direct sunlight or other strong illumination shines on the screen, part of the screen may appear white due to reflections from behind the screen. This is a structural property of the TV. Do not expose the screen to direct illumination or direct sunlight.
- The picture quality may be affected by your viewing position. For the best picture quality, install your TV according to "Recommended Viewing Area" on page 10.
- When installing your TV against a wall, keep it at least 4 inches (10 cm) away from the wall.

Projection Lamp

- Your TV uses a projection lamp as its light source. It is time to replace the lamp with a new one (not supplied) when:
 - the message, "Projection lamp is nearing end of life. Please replace the lamp," appeared on the screen,
 - the lamp replacement indicator on the front panel blinks in red,
 - screen images become dark,
 - no image appears on the display after prolonged use.
- In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of broken glass pieces inside the lamp unit. (See "Replacing the Lamp" on page 39.)
- When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and is inherent in this type of lamp.

Cooling Fans

This TV uses cooling fans. You may hear the noise of fans running, depending on the placement of your TV. The noise may be more noticeable during the night or when the background noise level is low.

Disposal of Used Batteries

To preserve our environment, dispose of used batteries according to your local laws or regulations.

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™

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 external equipment

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

To learn more about HDTV, visit: <http://www.sony.com/HDTV>

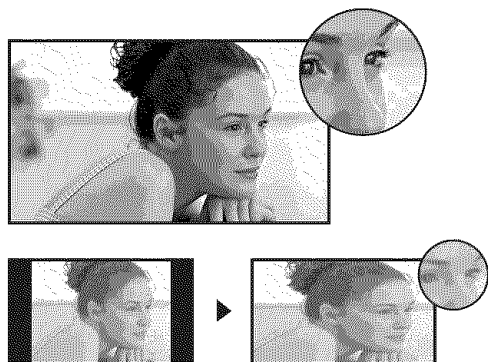
The Four Steps to Stunning HD Experience: Set, Sound, Source, and Setup

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 14). 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. The 1080 HD signals provide more than twice the vertical resolution of the standard TV signal.

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 widescreen aspect ratio of 16:9. 16:9 fills your BRAVIA screen, maintaining a crisp, clear, vivid picture.

4:3 (standard-definition) source

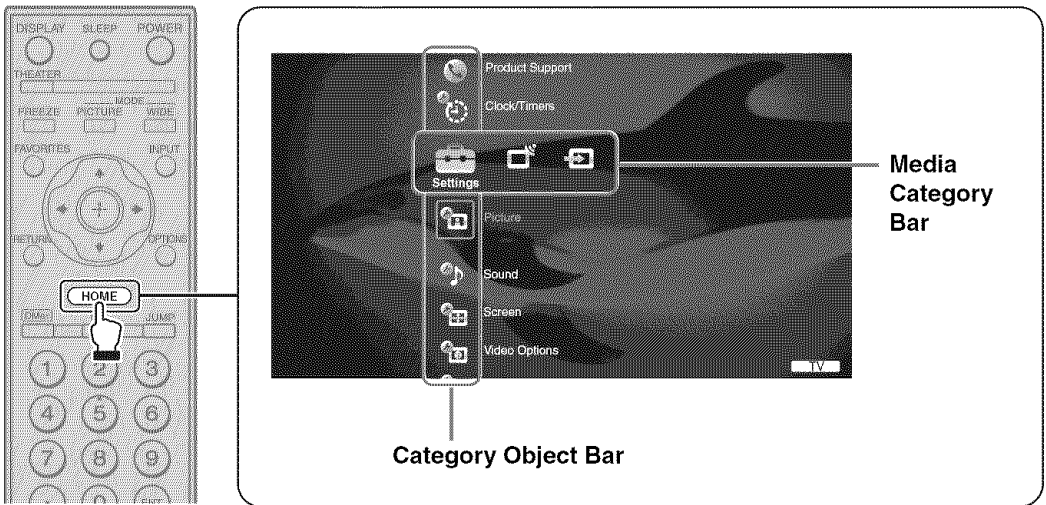
Most standard-definition signals use a boxy 4:3 aspect ratio. When a 4:3 image is displayed on an HDTV, you will see black bars on the sides. The picture quality may not be as sharp as with HD sources.



- You can use the **Wide Mode** function of the TV to adjust the 4:3 image to fit the entire screen (see pages 24, 31 and 32).

TV Home Menu: XMB™ (XrossMediaBar)

The **XMB™** is a menu of BRAVIA features and input sources displayed on the TV screen. The **XMB™** is an easy way to select programming and adjust settings on your BRAVIA TV. Press the **HOME** button on your remote control to access the **XMB™**.



From the horizontal Media Category Bar you can control:

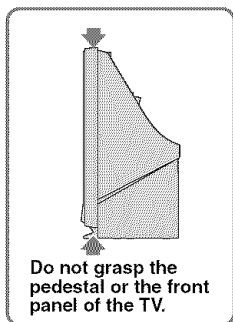
- **Settings:** timer, picture, sound, screen and other options (see page 28 for customization options).
- **TV Channels:** available channels are displayed on the vertical Category Object Bar.
- **External Inputs:** cable, satellite, VCR, DVD players or other inputs can also be selected from the Category Object Bar for the **External Inputs**.

Getting Started

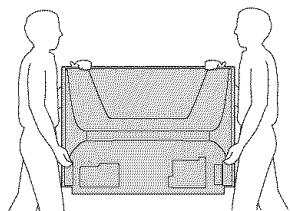
1. Installing the TV

Carrying Your TV

Carrying the TV requires at least two people. Do not hold by the pedestal or the front panel of the TV. Doing so may cause these parts to break off.



When moving the TV, place one hand in the hole on the lower portion of the TV while grasping the top with the other hand, as shown in the illustration below.

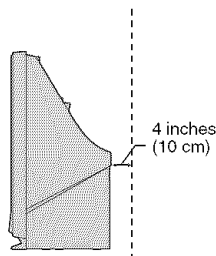
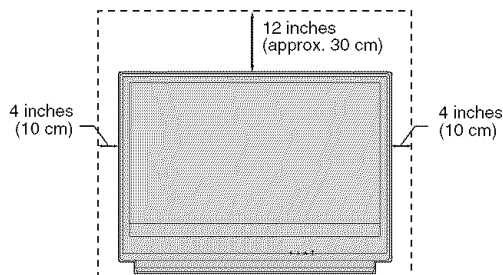


If you have connected cables and cords, be sure to unplug them before moving the TV.

To ensure the safety of children and the TV, keep children away from the TV during installation. Climbing on or pushing the TV or its stand may cause it to fall and may damage the TV.

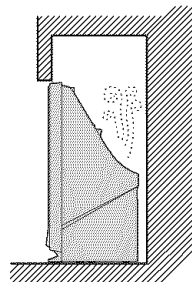
When Installing Your TV against a Wall

Keep your TV at least 4 inches (10 cm) away from the wall to provide proper ventilation. Blocking the ventilation opening of the cooling fan may damage the TV.

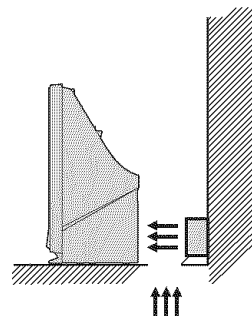


Never install the TV as follows:

Air circulation is blocked.



Air blown into cooling fan.



- Do not install the TV near any ventilation, as it may affect the normal TV operating temperature.

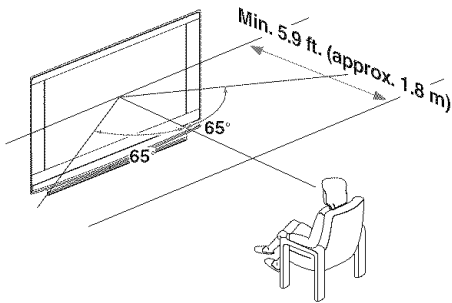
Recommended Viewing Area

Your viewing position may affect the picture quality.

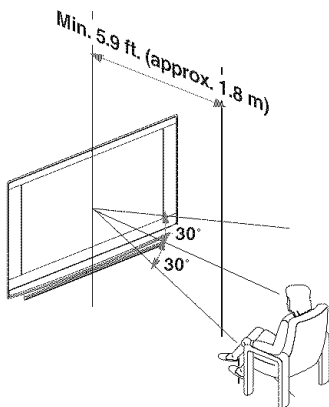
For the best picture quality, install your TV within the areas shown below.

Model	Viewing distance
KDF-37H1000	min. 5.9 ft. (approx. 1.8 m)

Horizontal Viewing Area



Vertical Viewing Area



Screen

To minimize reflection, the screen surface has a special coating.

Inappropriate cleaning methods could damage the screen surface. Special care is required.

Cleaning the Screen Surface

Dust and dirt on the screen can affect the picture quality. To dust off the screen use a soft cloth. Be sure to follow the cleaning instruction on page 5 for stubborn stains and dirt.

Temporary Image Retention

When high contrast non-moving images such as station logos and channel numbers are displayed for a long period of time, there may be some image retention on the screen. This is only a temporary condition. Turning off the power for a while or letting the TV run on another channel will eliminate the image retention.

Projection Lamp

Your TV uses a projection lamp as its light source. As with any lamp, it has a lifespan and needs to be replaced when the Lamp Indicator flashes or the screen becomes darker. Your TV also has a function to display a message, "Projection lamp is nearing end of life. Please replace the lamp." to let you know that the lamp has reached its expected lifespan. Note the following:

- After turning on your TV, it may take a while (one minute or less) before the picture appears.
- When the projection lamp wears out, the screen goes dark. Replace the lamp with a new Sony XL-2500 replacement lamp (not supplied).
- After lamp is replaced, please set the **Lamp Replacement** option in the **General** settings (see page 38).

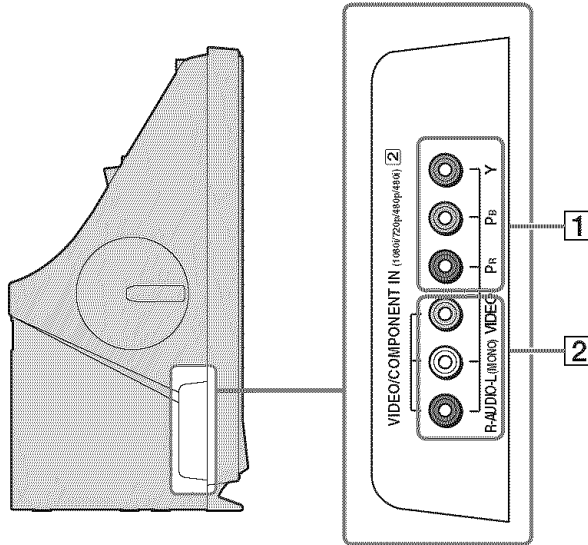
"How to Replace the Lamp", see page 39.





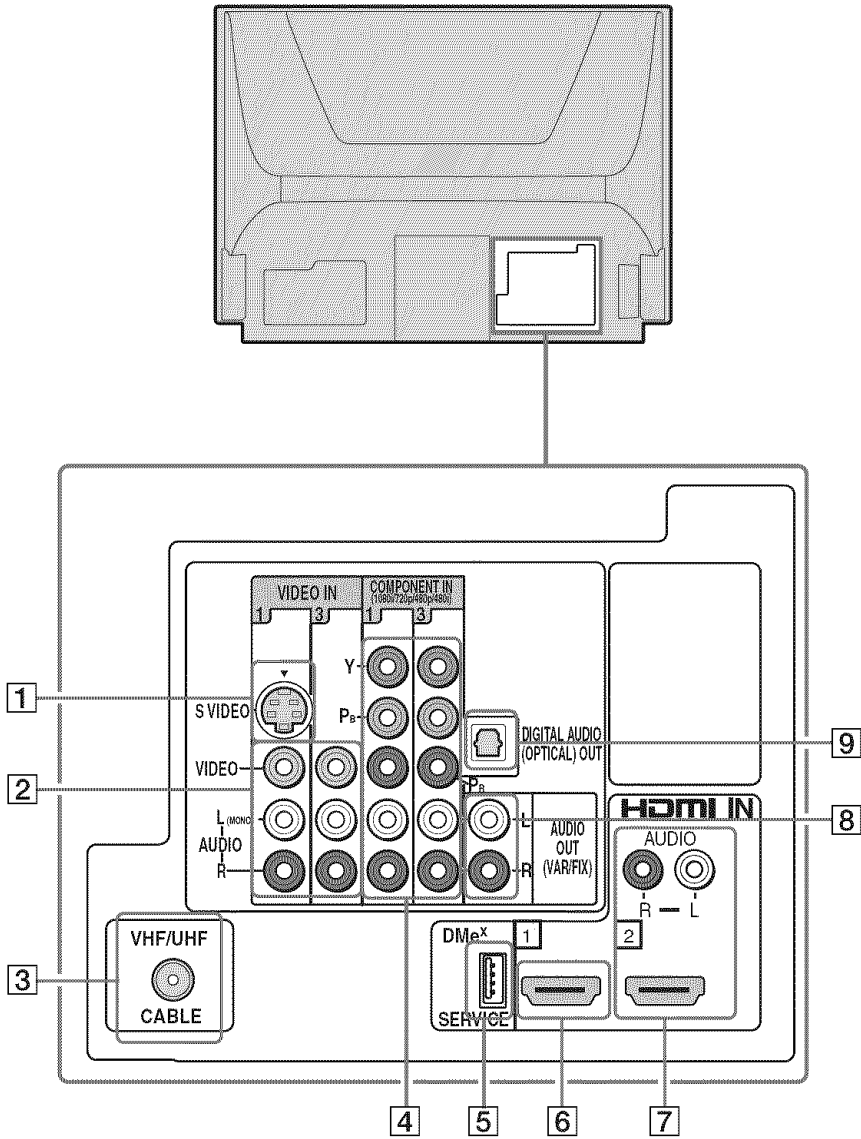
- The light emitted from the lamp is quite bright when your TV is in use. To avoid eye discomfort or injury, do not look into the light housing when the power is on.

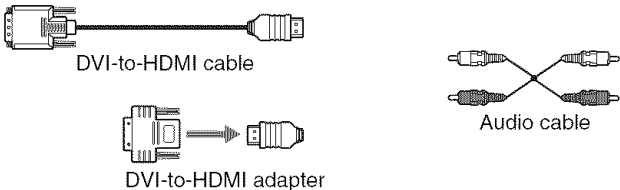

2. Locating Inputs and Outputs

Left side



Item	Description
1 COMPONENT IN 2 (1080i/720p/480p/480i)/YPbPr	<p>Connects to your equipment's component video (YPbPr) and audio (L/R) jacks. Component video provides better picture quality than the composite video connections. (See Video/Component 2 Priority on page 37.)</p> <p></p> <ul style="list-style-type: none"> When connecting to component video (YPbPr) be sure to make the additional connection for the audio signal. Audio cable can be connected to the R-AUDIO-L jack described below 2.
2 VIDEO IN 2 VIDEO/R-AUDIO-L (MONO)	<p>Connects to the composite video and audio output jacks on your camcorder or other video equipment such as a VCR or video game equipment. (See Video/Component 2 Priority on page 37.)</p> <p></p> <ul style="list-style-type: none"> If you have mono equipment, connect its audio output jack to the TV's L (MONO) audio input jack.



Item	Description
1 VIDEO IN 1 S VIDEO	Connects to the S VIDEO output jack of your VCR or other video equipment that has S VIDEO. The S VIDEO provides better picture quality than composite video.
2 VIDEO IN 1/3 VIDEO/ L(MONO)- AUDIO-R	Connects to the composite video and audio output jacks on your A/V equipment such as a VCR or other video equipment. A third composite video and audio (VIDEO IN 2) is located on the left side of the TV.
3 VHF/UHF/CABLE	RF input that connects to your Cable or VHF/UHF antenna.
4 COMPONENT IN 1/3 (1080i/720p/ 480p/480i)/ L(MONO)-AUDIO- R	Connects to your equipment's component video (Y/Pb/Pr) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO or the composite video connections.
5 DMe ^x /SERVICE	This USB port is for connecting to the optional BRAVIA external module (DMe ^x) or used for service purpose only.
6 HDMI IN 1 HDMI	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video equipment, such as a set-top box, DVD player, Blu-ray Disc player, A/V receiver as well as PC. HDMI supports enhanced, or high-definition video, plus digital audio.
7 HDMI IN 2 HDMI/ AUDIO R-L	If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN 2 (with DVI-to-HDMI cable or adapter) jack, and connect the audio jack to the AUDIO IN(L/R) jacks of HDMI IN 2.
 <p>The diagram illustrates three types of cables used for connecting external equipment to the TV's HDMI IN 2 port. On the left, a 'DVI-to-HDMI cable' is shown with a DVI connector on one end and an HDMI connector on the other. Below it is a 'DVI-to-HDMI adapter', which is a small rectangular device with a DVI connector on one side and an HDMI connector on the other. On the right, an 'Audio cable' is shown with two RCA connectors (red and white) on one end and two RCA connectors (red and white) on the other, crossed in the middle.</p>	
<p> • HDMI connection has capability for displaying 480i, 480p, 720p, 1080i, 1080p and some PC formats (see page 16).</p> <p>• When using a DVI-to-HDMI cable, make sure to connect the DVI side first.</p> <p>• Be sure to use only an HDMI cable that bears the HDMI logo.</p>	
8 AUDIO OUT (VAR/FIX)	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 DIGITAL AUDIO (OPTICAL) OUT	Connects to the optical audio input of your digital audio equipment that is PCM/Dolby [*] digital compatible. If you have connected an audio system to the HDMI input, be sure to connect this output to your audio system to enjoy the sound from your audio system.

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

3. Connecting the TV

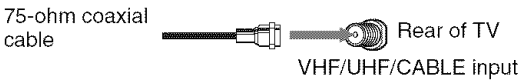
Cable System or VHF/UHF Antenna System

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



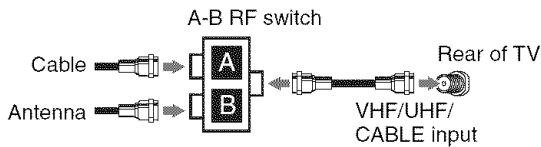
- This TV is capable of receiving unscrambled digital programming for both cable (QAM and 8VSB) and external VHF/UHF antenna (ATSC).
- It is strongly recommended that you connect the antenna/cable input using the supplied 75-ohm coaxial cable to receive optimum picture quality. A 300-ohm twin lead cable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

Cable or VHF/UHF (or VHF only)



Cable System and VHF/UHF Antenna System

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

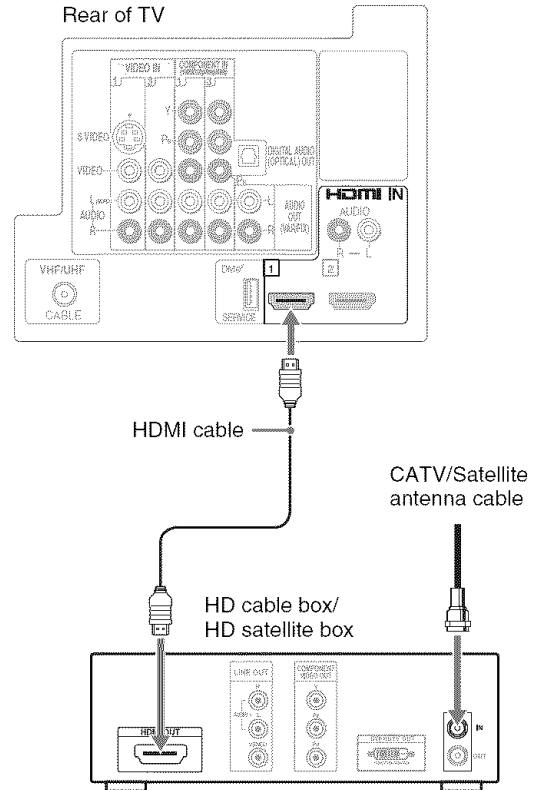


- Be sure to set the **Cable** setting to **On** or **Off** in the **Channel** settings for the type of input signal you choose (see page 33).

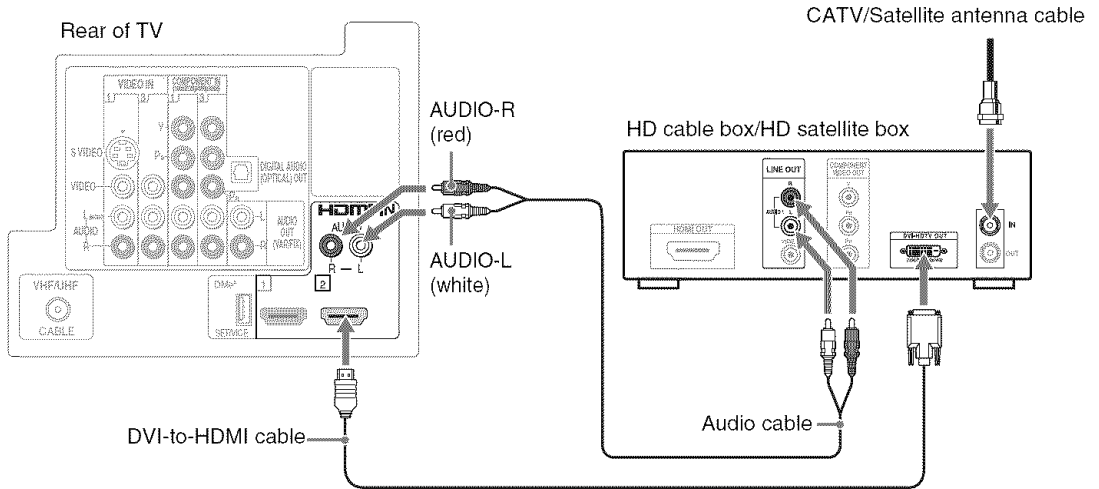
HD Cable Box/HD Satellite Box

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

Shown with HDMI Connection

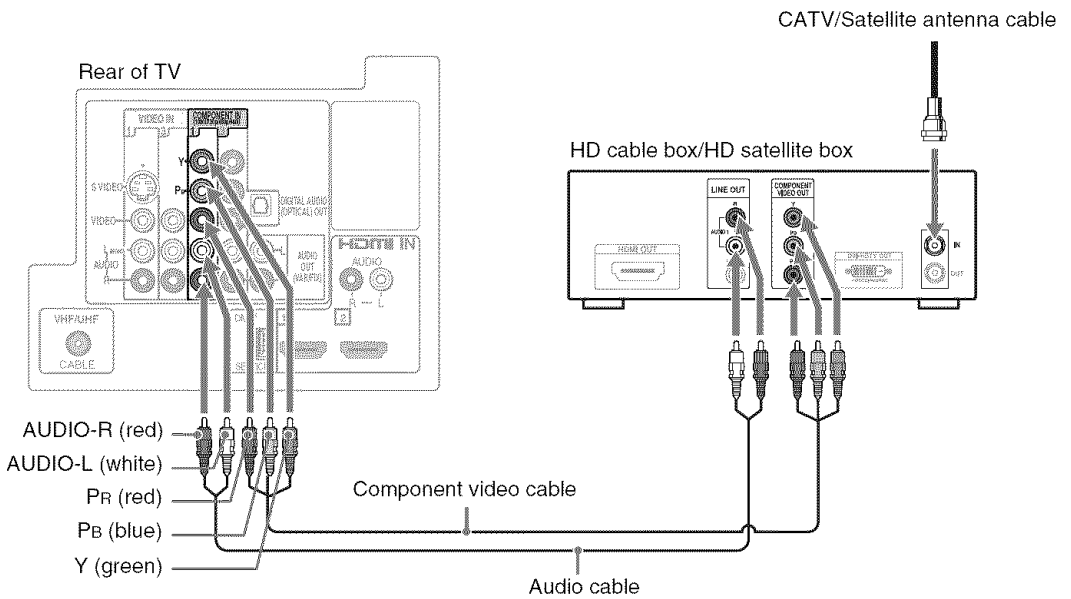


Shown with DVI Connection

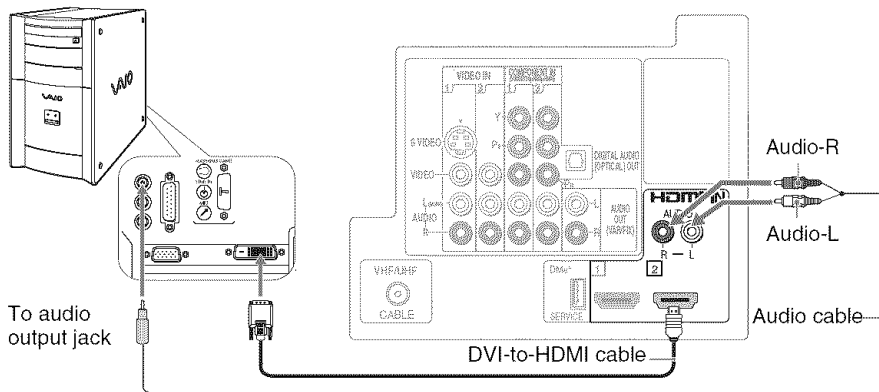


If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN 2 (with DVI-to-HDMI cable or adapter) jack and connect the audio jack to the AUDIO IN(L/R) jacks of HDMI IN 2. For details, see page 13.

Shown with Component Connection



Use the TV as a monitor for your PC.



PC Input Signal Reference Chart

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

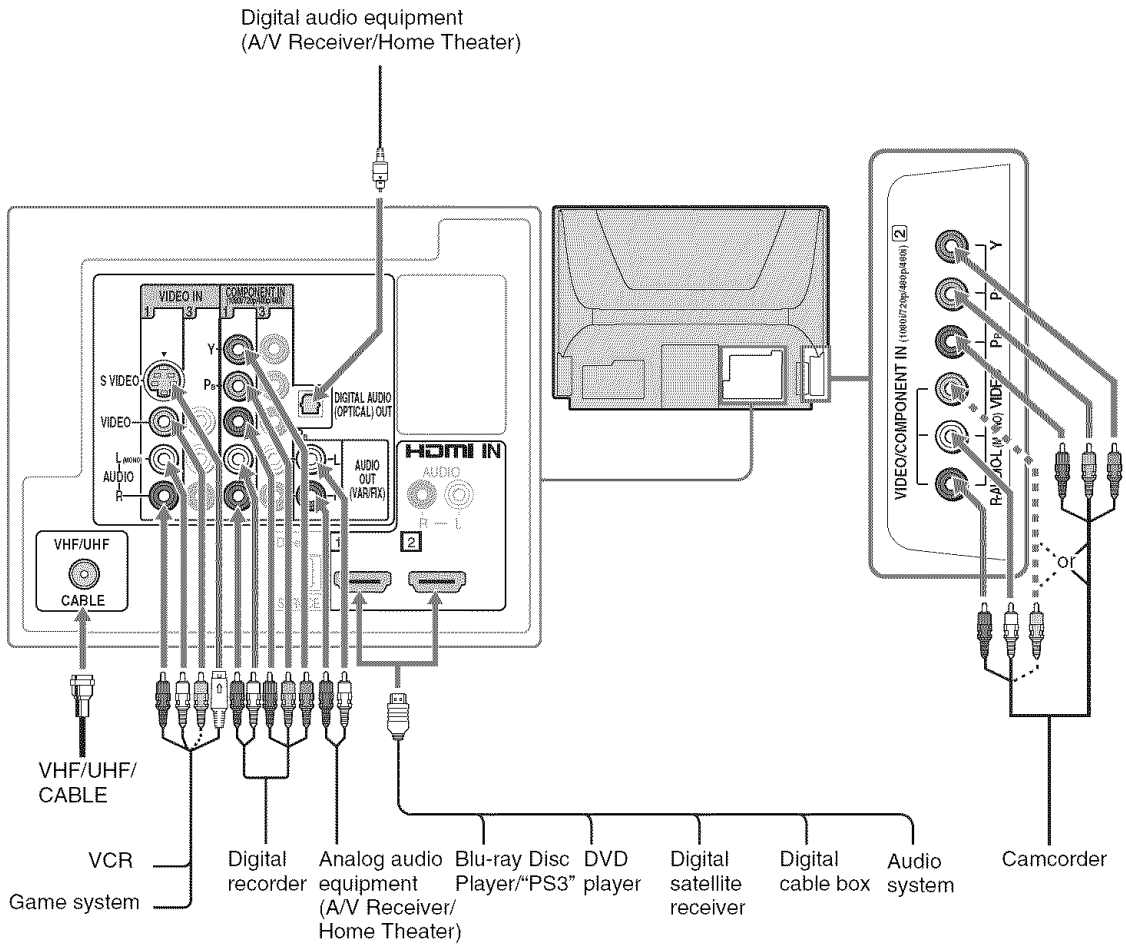
<i>Resolution Signals</i>	<i>Horizontal (Dot)</i>	<i>x</i>	<i>Vertical (Line)</i>	<i>Horizontal frequency (kHz)</i>	<i>Vertical frequency (Hz) (Refresh rate)</i>	<i>VESA standard</i>
VGA	640	x	480	31.5	60	—*
	640	x	480	37.5	75	✓
	640	x	480	43.3	85	✓
	720	x	400	31.5	70	—*
SVGA	800	x	600	35.2	56	✓
	800	x	600	37.9	60	✓
	800	x	600	46.9	75	✓
XGA**	800	x	600	48.1	72	✓
	1024	x	768	48.4	60	✓
	1024	x	768	56.5	70	✓
WXGA**	1024	x	768	60	75	✓
	1280	x	768	47.4	60	✓
	1280	x	768	47.8	60	✓
	1152	x	648	40.3	60	CVT***

*: Corresponding to the VGA signal.
 **: These signals do not support Normal display mode.
 ***: Coordinated Video Timing.

- This TV does not support Sync on Green or Composite Sync.
- If a signal other than one from the above chart is input, it may not be displayed properly or may not be displayed as you set.

- For the best picture quality, it is recommended to use signals with a 60 Hz vertical frequency from a personal computer. In plug and play, signals with 60 Hz vertical frequency will be selected automatically.
- Noise may be detected under certain conditions. If unsupported signals are used, you will see the message, "Unsupported Signal".

Other Equipment



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

Using HDMI Control for BRAVIA Theatre Sync™

This TV is equipped with BRAVIA Theatre Sync. The **HDMI Control** function enables BRAVIA Theatre Sync to allow communication between Sony TV's and Sony equipment. Only Sony equipment with **HDMI Control** capability is supported.

To connect HDMI Control equipment

Use an HDMI cable that bears the HDMI logo for connection. See pages 14 to 17 or see the HDMI connection shown in the Quick Setup Guide provided with the TV documentation.

Setting the HDMI Control

In order for the **HDMI Control** function to operate, the TV and other Sony **HDMI Control** equipment must be setup. See page 37 on how to turn the **HDMI Control On**. For other equipment, refer to the operating instructions for that equipment.

HDMI Control available with your TV:

Once the supported equipment is connected, the following operations are available:

- Turn off the equipment automatically when you turn off the TV.
- When the connected equipment is turned on by One-Touch-Play, the TV will automatically turn on and select the respective HDMI input.
- Automatically turn on equipment listed under the **External Inputs** on the **XMB™** (XrossMediaBar) when selected, see pages 7 and 26.

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

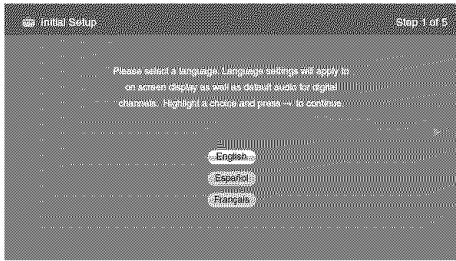
- Turning on the A/V receiver when the TV is turned on.
- Automatically switching to the audio output of the A/V receiver's attached speakers.
- Adjusting the volume and muting of the A/V receiver with the TV's remote control.



- The A/V receiver cannot be selected from the **XMB™**.

4. Setting Up the Channel List – Initial Setup

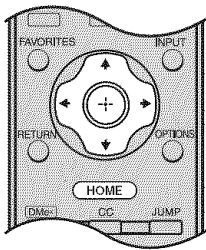
The **Initial Setup** screen appears when you turn on the TV for the first time.



After you finish connecting the TV, you can run **Initial Setup** to create a list of available analog and digital channels if you have connected an antenna or cable directly to the TV's VHF/UHF/CABLE input.

You will be prompted to select the language of your choice to be used for all the on screen settings.

Use the remote control to navigate through the **Initial Setup**:



▲/▼ button:

Allows you to highlight options where applicable.

⊕ button:

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

◀ button:

Allows you to move back to the previous screen.

▶ button:

Allows you to move to the next screen.

Follow the help text provided on the screen to run **Auto Program** with the connected signal source or select **Skip** to skip the **Auto Program** if you are receiving channels from a cable box or satellite receiver and the VHF/UHF/CABLE input is not connected. The **Auto Program** will scan for available channels. When the **Auto Program** is completed, the TV will display how many analog and digital channels are found.



- 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.
- The **Auto Program** may be canceled while the channels are being scanned. Press **RETURN** first, then press either **◀/▶** on the remote control, highlight “Yes” to cancel or “No” to resume the **Auto Program**.

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

Select the **Initial Setup** feature from the **XMB™** (XrossMediaBar) or refer to the **Initial Setup** described on page 38. To run **Auto Program**, see page 33.

To Add Digital Channels

Use the **Add Digital Channels** feature as described on page 34. (Useful for antenna installations.)

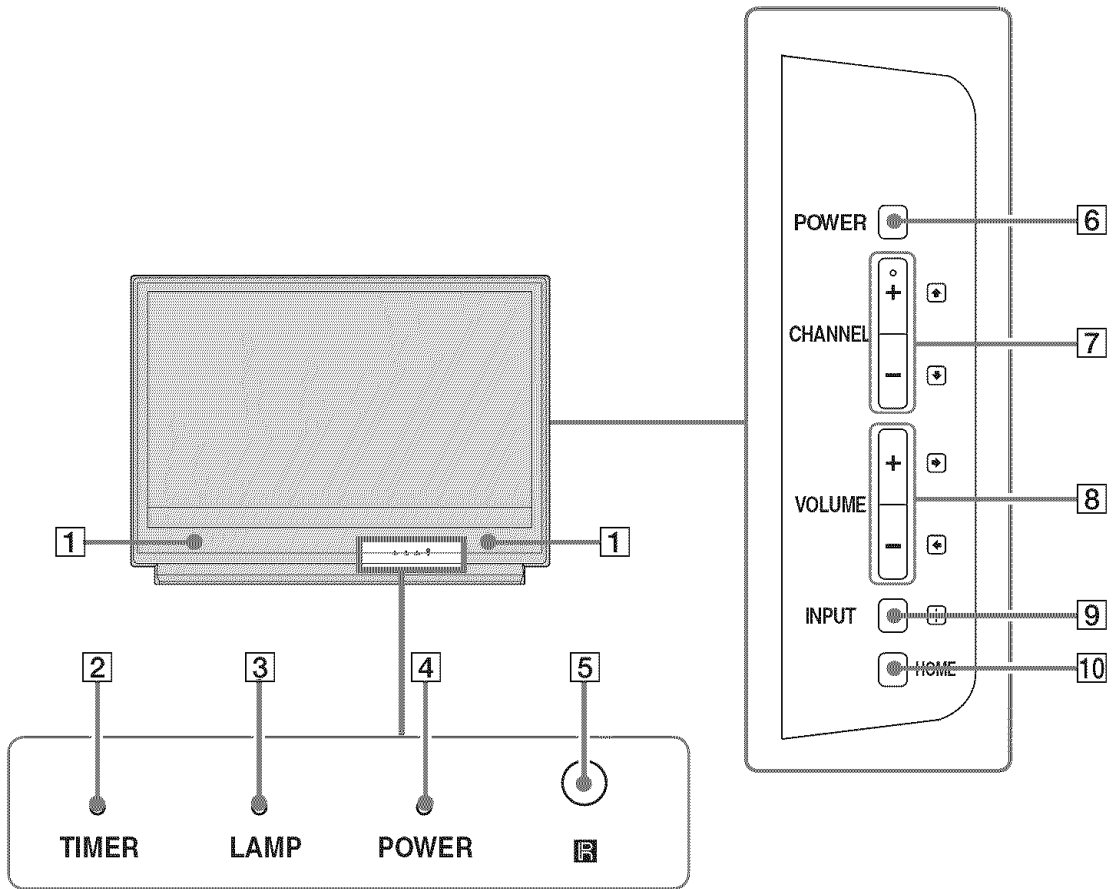
To Display the Picture in Your Preferred Aspect Ratio

Select the proper **Wide Mode** as described on pages 24 and 31.


You may want to set up convenient features such as **Favorites** (see page 23), **Show/Hide Channels** (page 34), **Edit Channel Labels** (page 34) when **Auto Program** is completed.

TV Control and Indicators

Side Panel and Indicators



Buttons located at the right side of the TV will operate the same as these buttons on the remote control.

Item	Description
1 Speaker	Outputs the audio signal.
2 TIMER LED	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 28.
3 LAMP LED	The projection lamp has burned out. Replace it with new one (see page 39).
4 POWER LED	Lights up in green when the TV is turned on. Also lights up in red during the diagnostics.
5 (IR) Infrared Receiver	Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected.
6 POWER	Press to turn on and off the TV.
7 CHANNEL +/-	Press to scan through channels. To scan quickly through channels, press and hold down either +/-.
8 VOLUME +/-	Press to adjust the volume.
9 INPUT	Press to display the list of External Inputs and TV mode. Press repeatedly to toggle through the inputs.  • See page 37 on setting up the External Inputs labels, including the Skip feature.
10 HOME	Press to display the TV Home Menu/XMB™ (XrossMediaBar) to access the TV Home Menu items such as the TV Settings , TV channels and External Inputs list (see pages 7 and 26).

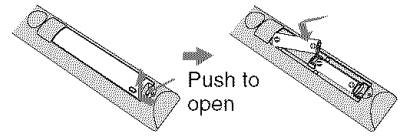


- While **XMB™** is displayed, the **7**, **8** and **9** become navigational buttons. Use them to navigate on the **XMB™**. When **HOME** is pressed again, these buttons will activate the **CHANNEL +/-**, **VOLUME +/-** and **INPUT** operation.

Remote Control

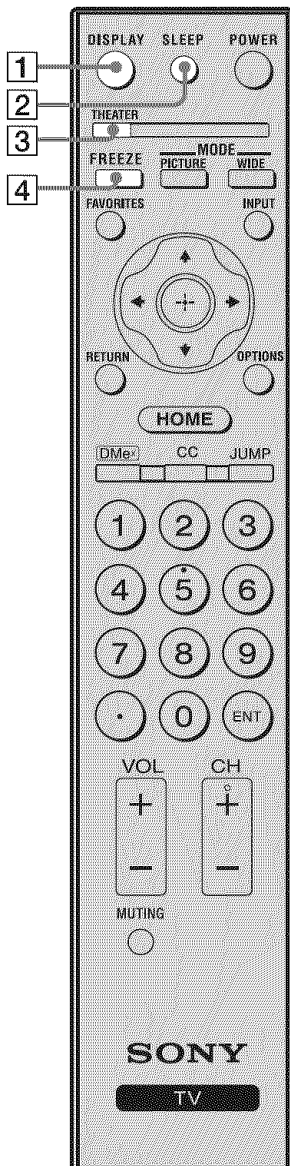
Inserting Batteries into the Remote Control

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



- To avoid possible damage from battery leakage, remove the batteries if you anticipate the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or in high humidity.

Button Descriptions

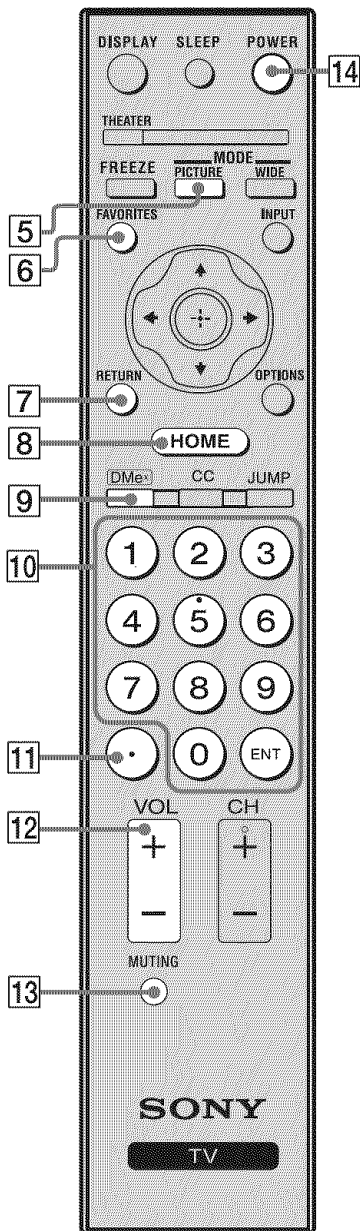





Button	Description
1 DISPLAY	Press once to display the information pertaining to the channel and/or program when available. The OSD (On Screen Display) will time out in a few seconds or press again to immediately turn off the display. You can also set the display to show minimal information. See Info Banner on page 38.
2 SLEEP	Press repeatedly until the TV displays the time in minutes (Off , 15min , 30min , 45min , 60min , 90min or 120min) that you want the TV to remain on before shutting off. To cancel Sleep Timer , press SLEEP repeatedly until Off appears.
3 THEATER	Press to turn on and off the Theater Mode . This feature allows you to enjoy the Cinema mode (see page 28) with your A/V receiver. You must connect an A/V receiver that supports the HDMI Control . TV's speakers will be automatically muted.
4 FREEZE	Press once to display the frozen image of the current program in the left window. The window on the right will display the current program in progress. Press again to return to the program.



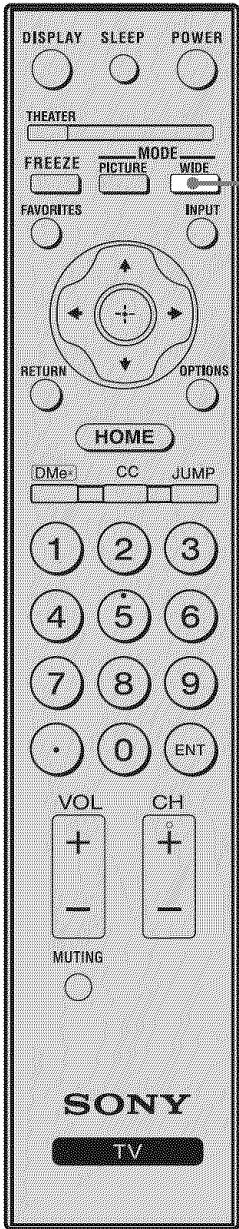
- With the **Freeze** feature active, some features are unavailable.
- While the **Freeze** feature is active, pressing **HOME** will deactivate the **Freeze** and display the **XMB™**.

- The **5** button and **CH +** have a tactile dot. Use them as a reference when operating the TV.
- This remote control cannot be programmed to use with other equipment.

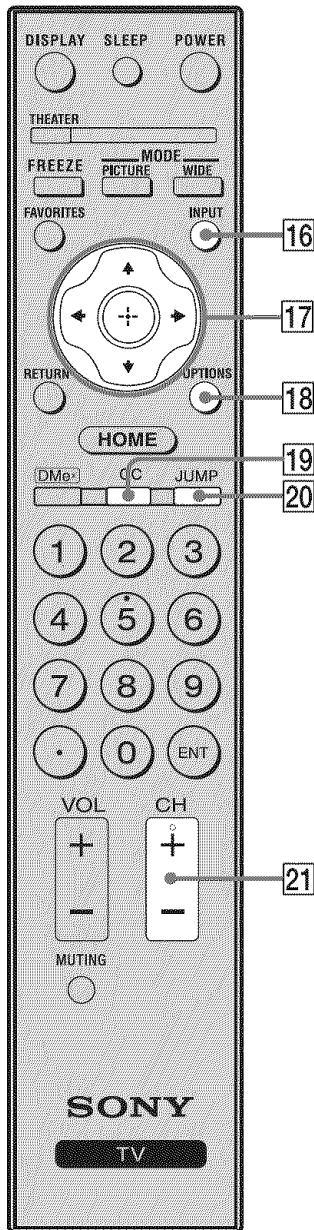


Button	Description
5 PICTURE	Press repeatedly to cycle through the available picture modes: Vivid , Standard , Cinema . The picture modes can also be accessed in the Picture settings. For details, see Picture settings on page 28.
6 FAVORITES	Press once to display the stored favorite channel list. You can store up to 30 channels in your Favorites list. How to Add to Favorites While tuned to the channel you want to add to the list, press OPTIONS and highlight "Add to Favorites", then press (+). A confirmation message of "Channel added to Favorites" will appear for a few seconds. How to Remove from Favorites While tuned to a channel that exists in the Favorites list, press OPTIONS and highlight "Remove from Favorites", then press (+). A confirmation message of "Channel removed from Favorites" will appear for a few seconds.  • Your Favorites list will be cleared each time you run Auto Program (see pages 19 and 33 for Auto Program).
7 RETURN	Press to go back to the previous screen or exit from the screen when displaying menu items and settings.
8 HOME	Press to display the TV Home Menu/XMB™ (XrossMediaBar) to access the TV Home Menu items such as the TV Settings , TV channels and External Inputs list (see pages 7 and 26). 
9 DMe ^x	Press to access features in the optional BRAVIA INTERNET VIDEO LINK. See your dealer or www.sony.com/bravia for more information. The module may not be available in your region.
10 0-9 ENT	Press 0-9 to select a channel; the channel changes after two seconds. Press ENT to change channels immediately.
11 	Use with 0-9 and ENT to select digital channels. For example, to enter 2.1, press (2), (.), (1) and ENT .
12 VOL +/-	Press to adjust the volume.
13 MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
14 POWER	Press to turn on and off the TV.

(Continued)



Button	Description																								
15 WIDE	<p>Press repeatedly to step through the Wide Mode settings: Wide Zoom, Normal, Full, Zoom. The Wide Mode settings can be also accessed in the Screen settings (see page 31). When selecting Wide Mode for images from external equipment, see page 31.</p> <p>Changing the Wide Screen Mode (For PC signal, see below)</p> <table border="1"> <tr> <td> 4:3 Original source Standard-definition source </td> <td> 16:9 Original source High-definition source </td> </tr> <tr> <td>↓</td> <td>↓</td> </tr> <tr> <td>Wide Zoom </td> <td>Wide Zoom </td> </tr> <tr> <td>Normal </td> <td>Normal This mode is not available</td> </tr> <tr> <td>Full </td> <td>Full </td> </tr> <tr> <td>Zoom </td> <td>Zoom </td> </tr> </table> <p> When the TV receives a 720p, 1080i or 1080p signal, Normal cannot be selected.</p> <p>Changing the Wide Screen Mode for PC Signal Format</p> <table border="1"> <tr> <td> Incoming PC signal Less than 16:9 PC format </td> <td> Incoming PC signal 16:9 or more than 16:9 PC format </td> </tr> <tr> <td>↓</td> <td>↓</td> </tr> <tr> <td> Normal (Available at 1152 × 648 resolution or lower.) </td> <td> Normal (Available at 1152 × 648 resolution or lower.) </td> </tr> <tr> <td>Full 1 </td> <td>Full 1 </td> </tr> <tr> <td>Full 2 </td> <td>Full 2 </td> </tr> <tr> <td>Zoom </td> <td>Zoom </td> </tr> </table>	4:3 Original source Standard-definition source 	16:9 Original source High-definition source 	↓	↓	Wide Zoom 	Wide Zoom 	Normal 	Normal This mode is not available	Full 	Full 	Zoom 	Zoom 	Incoming PC signal Less than 16:9 PC format 	Incoming PC signal 16:9 or more than 16:9 PC format 	↓	↓	Normal (Available at 1152 × 648 resolution or lower.) 	Normal (Available at 1152 × 648 resolution or lower.) 	Full 1 	Full 1 	Full 2 	Full 2 	Zoom 	Zoom
4:3 Original source Standard-definition source 	16:9 Original source High-definition source 																								
↓	↓																								
Wide Zoom 	Wide Zoom 																								
Normal 	Normal This mode is not available																								
Full 	Full 																								
Zoom 	Zoom 																								
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Normal (Available at 1152 × 648 resolution or lower.) 	Normal (Available at 1152 × 648 resolution or lower.) 																								
Full 1 	Full 1 																								
Full 2 	Full 2 																								
Zoom 	Zoom 																								



Button	Description
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- 16 INPUT** Press to display the list of **External Inputs** and TV mode. Press repeatedly to toggle through the inputs.



- See page 37 on setting up the **External Inputs** labels, including the **Skip** feature.

- 17** Press to move the on screen cursor. Press to select/confirm an item.

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

Menu Item	Reference Page
Picture	See page 28
Sound	See page 30
Speakers	See page 33
Add to Favorites/ Remove from Favorites	See page 23
MTS	See page 33
Alternate Audio	See page 33
Digital Rating	See page 35
Screen	See page 31

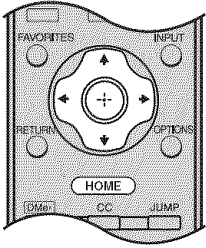
- 19 CC** Press to turn on and off the Closed Captions (CC). To change or customize the **CC Display**, see page 34.

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

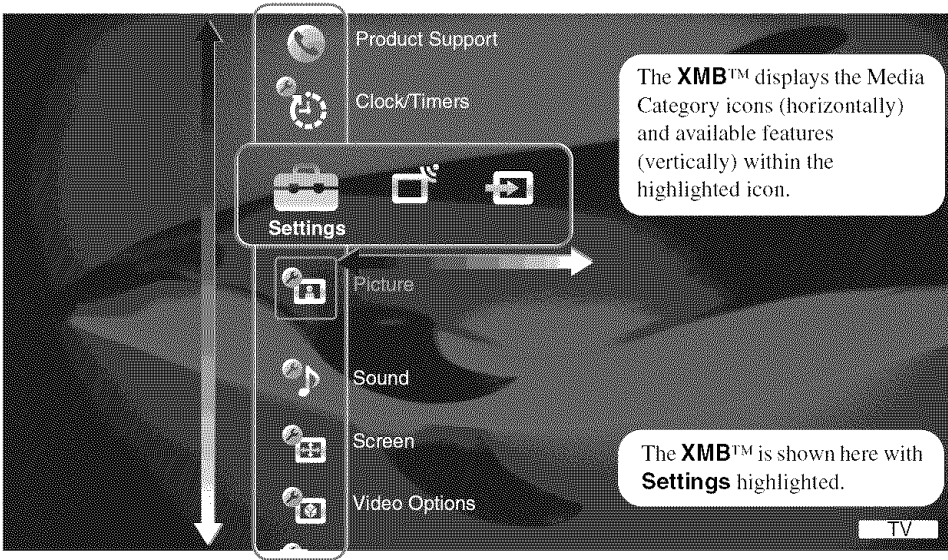


- 21 CH +/-** Press to scan through channels. To scan quickly through channels, press and hold down either **+/-**.

Using TV Features



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



Media Category Icons



Settings

Adjust TV Settings

Customize the TV settings with various options.

Explanations of different **Settings** start from page 28.

- The available options vary depending on the situations and conditions applied. Unavailable options are grayed out or not displayed.



TV

Watching TV

Select a channel.

- You can also select a TV channel using the number **0-9** or **CH+/-** buttons (see remote control section pages 23 and 25).



External Inputs


Access the equipment connected to your TV

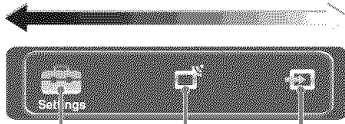
Watch a movie, play a game, record a program or work on your PC.

Assign a label using the **Label Inputs** feature for your convenience, see page 37.

Navigating through TV Home Menu on XMB™

1  Press **HOME** to display the **XMB™**.


2  Press **←/→** to select a Media Category icon.

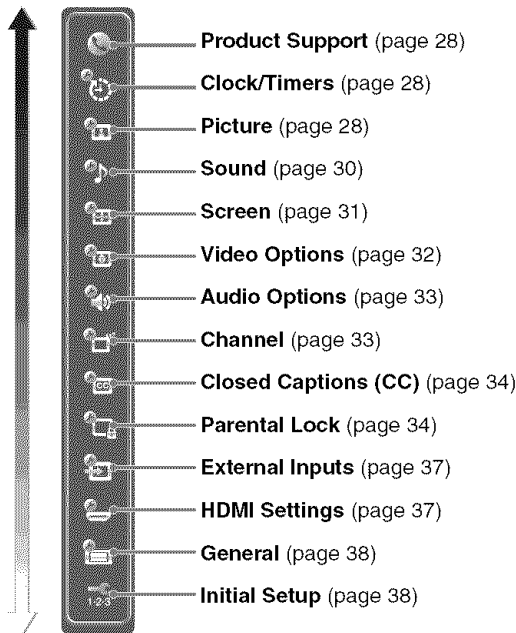



Available TV settings and features are listed under the **Settings** icon.


Available channels are listed under the **TV** icon.

Select inputs from **Video1**, **Video/Component 2**, **Video 3**, **Component 1, 3**, **HDMI 1, 2** under the **External Inputs** icon.

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



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	Press \oplus to display the diagnostics information for the current signal.



Clock/Timers Settings

Current Time	<p>Sets the current time (day, hour, minutes, and AM/PM). The Timer feature will not be available until you set the Current Time.</p> <ol style="list-style-type: none">1 Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ button to highlight the Clock/Timers icon and press \oplus.2 Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ button to set the current time.3 Press RETURN to display the confirmation screen.4 Select Yes or No to save changes you made. Selecting Yes will save your settings and exit the Current Time setting screen.
Timer	<p>After the Current Time is set, you can set the Timer to automatically turn the TV on and off and tune to a specific channel at a scheduled time.</p> <ol style="list-style-type: none">1 Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ button to highlight the Timer icon and press \oplus.2 Press \oplus to select On to set the timer.3 Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ button to set the following: Day of the Week, Time, Duration, Channel, and Volume.4 Press RETURN to display the confirmation screen.5 Select Yes or No to save changes you made. Selecting Yes will save your settings and will light up the TIMER LED.6 Exit the Timer setting screen.
Sleep Timer	Sets the time in minutes (Off , 15min , 30min , 45min , 60min , 90min , or 120min) that you want the TV to remain on before shutting off automatically. This can also be set using the SLEEP button on the remote control (see page 22).






Picture Settings

Picture Mode	Vivid	For enhanced picture contrast and sharpness.
	Standard	For standard picture settings. Recommended for home entertainment.
	Cinema	For viewing film-based content. Most suitable for viewing in a theater-like environment.



• **Picture Mode** can also be accessed by pressing **PICTURE** on the remote control to directly toggle the modes.

Reset	Resets the current Picture Mode setting to the default values.
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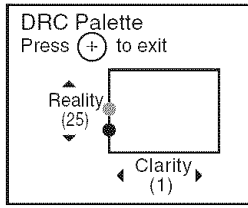
Advanced Iris	By selecting the iris option, you can obtain the best brightness and contrast suited for your TV viewing.																					
Auto 1, 2	Automatically detects the brightness of the screen. These options are best suited for programs such as movies that often change between bright scenes and low light setting scenes. Auto 1: Recommended option for viewing programs that have larger variation in brightness from scene to scene. Auto 2: Recommended option for viewing programs that have less variation in brightness from scene to scene.																					
High	With this option, the screen has maximum level of brightness. It is suitable for TV viewing in a brightly lit room.																					
Medium	With this option, the brightness is about the standard level.																					
Low	With this option, the screen is dimmed but contrast is at a maximum. It is suitable for TV viewing in a room with low lighting.																					
																						
	<ul style="list-style-type: none"> When Picture Mode is set to Vivid, Advanced Iris option is automatically set to Auto 1. 																					
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 <i>White adjustment</i>	Cool	Gives the white colors a bluish tint.																				
	Neutral	Gives the white colors a neutral tint.																				
	Warm 1, 2	Gives the white colors a reddish tint.																				
																						
	<ul style="list-style-type: none"> Picture Mode settings determines the available Color Temperature options: 																					
	<table border="1"> <thead> <tr> <th rowspan="2">Color Temperature options</th> <th colspan="3">Picture Mode for all modes</th> </tr> <tr> <th>Vivid</th> <th>Standard</th> <th>Cinema</th> </tr> </thead> <tbody> <tr> <td>Cool</td> <td>yes</td> <td>yes</td> <td>yes</td> </tr> <tr> <td>Neutral</td> <td>yes</td> <td>yes</td> <td>yes</td> </tr> <tr> <td>Warm1, 2</td> <td>n/a</td> <td>yes</td> <td>yes</td> </tr> </tbody> </table>			Color Temperature options	Picture Mode for all modes			Vivid	Standard	Cinema	Cool	yes	yes	yes	Neutral	yes	yes	yes	Warm1, 2	n/a	yes	yes
Color Temperature options	Picture Mode for all modes																					
	Vivid	Standard	Cinema																			
Cool	yes	yes	yes																			
Neutral	yes	yes	yes																			
Warm1, 2	n/a	yes	yes																			
Sharpness	Sharpens or softens the picture.																					
Noise Reduction	Reduces the noise level of connected equipment, and the VHF/UHF/CABLE input. Select from Auto (available only with VHF/UHF/Cable input), High , Medium , Low and Off .																					
DRC Mode	High Density	Creates a high-resolution picture with 4 × density, for high quality sources (i.e., DVD player, satellite receiver).																				
	Progressive	Recommended for still pictures.																				
																						
	<ul style="list-style-type: none"> DRC Mode is available only with 480i source. DRC Mode is not available when using the Freeze feature. DRC Mode is not available when the Game Mode is set to On. 																					

(Continued)

DRC Palette

Allows you to customize the level of detail (**Reality**) and smoothness (**Clarity**).

- 1 Press the arrow buttons to highlight **Custom** then press (+).
The **DRC Palette** appears.



- 2 Press the arrow buttons to adjust the position of the marker (●). As you move the ● higher along the **Reality** axis, the picture becomes more detailed. As you move the ● to the right along the **Clarity** axis, the picture becomes smoother.
- 3 To save the setting, press (+).



- **DRC Palette** is available only with 480i source. **DRC Palette** is not available when using the **Freeze** feature.
- **DRC Palette** is not available when the **Game Mode** is set to **On**.

Advanced Settings

Advanced Settings are available for the following conditions:

	Vivid	Standard	Cinema	PC signal
Advanced Settings	n/a	yes	yes	n/a

Reset Resets all the advanced settings to the default values.

Black Corrector Enhances black areas of the picture for stronger contrast.

Gamma Adjusts the balance between the light and dark areas of the picture.

Clear White Emphasizes white and light colors.

Live Color Makes colors more vivid and reproduces clear skin tones.



Sound Settings

The following **Sound** settings options are available for the TV speakers. Make sure to have the **Speakers** option set to **TV Speakers** under **Audio Options** settings (see page 33).

Sound Mode	Dynamic	Enhances treble and bass.
	Standard	Suitable for spoken dialog.
	Custom	Customizes the sound settings including the Sound Booster setting.




- **Sound Mode** can also be accessed by pressing **OPTIONS** on the remote control.

Reset Resets the current **Sound Mode** setting 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.
Sound Booster	The Sound Booster provides a fuller sound with a greater sense of depth and width, by emphasizing the High and Low frequency sounds. Select High or Low for the amount of boost you desire while in the Custom Sound Mode . Selecting Off will bypass the emphasis.	
	 <ul style="list-style-type: none"> The Sound Booster is automatically in the High position for Dynamic Sound Mode and Low position for Standard Sound Mode. 	
Steady Sound	On	Stabilizes the volume across all programs and commercials.
	Off	Turns off Steady Sound .
Volume Offset	Adjusts the volume level of the current input (TV or video input) relative to other inputs.	




Screen Settings

Wide Mode	Wide Zoom	Fills the screen with minimum distortion.
	Normal	Displays the 4:3 picture in its original size when the original source is 4:3.
		 <ul style="list-style-type: none"> Normal is not available when you are watching 720p, 1080i or 1080p sources.
	Full	Enlarges the picture horizontally to fill the screen when the original source is 4:3 (Standard-definition source). When the original source is 16:9 (High-definition source), select this mode to display the 16:9 picture in its original size.
	Zoom	Enlarges the original picture while maintaining the aspect ratio.
	 <ul style="list-style-type: none"> Wide Mode can also be accessed by pressing the WIDE button. 	
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 <i>Select the default screen mode to use for 4:3 sources</i>	Wide Zoom	Enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.
	Normal	Displays the 4:3 picture in its original size.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the display area.
	Zoom	Select to enlarge the picture horizontally and vertically while maintaining the aspect ratio that fills the wide screen.
	Off	Select to continue using the current screen mode setting when the channel or input is changed.
		 <ul style="list-style-type: none"> This option is not available for HDMI PC input. This option is not available if Auto Wide is set to Off. If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting for 4:3 sources. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off.

(Continued)

Display Area	Normal	Displays the picture in its original size.
	-1/-2	Enlarges the picture to hide the edge of the picture.
Screen Position	Adjust the Vertical positioning by pressing the ▲/▼ buttons. Press the ◀/▶ buttons to adjust the Horizontal positioning.	
	 <ul style="list-style-type: none"> • Vertical adjustment is available only when Wide Mode is set to Zoom or Wide Zoom. • Screen Position feature is useful if the TV is connected to game equipment. 	
Vertical Size	Adjusts the vertical size of the picture. (Available only in Wide Zoom and Zoom .) Press ◀/▶ and press ⊕ to adjust.	

Screen settings for PC Input Modes differ from all other input modes and are shown below.

H Center	Allows you to move the position of the picture horizontally (left and right) while PC Wide Mode is set to Zoom . To Adjust the H Center Press ▲/▼ to highlight H Center and press ⊕ . Press ◀/▶ to correct the centering then press ⊕ .	
V Center	Allows you to move the position of the picture vertically (up and down) while PC Wide Mode is set to Zoom . To Adjust the V Center Press ▲/▼ to highlight V Center and press ⊕ . Press ◀/▶ to correct the centering then press ⊕ .	
Wide Mode	Normal	Select to display the picture in its original size of PC format resolution of 1152 × 648 or less.
	Full 1	Select to enlarge the picture to fill the display area, keeping its original aspect ratio.
	Full 2	Select to enlarge the picture to fill the display area.  <ul style="list-style-type: none"> • PC Wide Mode can also be accessed by pressing the WIDE button while in PC mode.
	Zoom	Select to enlarge the picture horizontally and vertically to an equal aspect ratio that fills the wide screen.



Video Options Settings

CineMotion	Select Auto to automatically detect film content and apply a reverse 3-2 pulldown process. Moving pictures will appear cleaner and more natural looking. The CineMotion feature can be set separately for each external input. Select Off to disable the detection.
Game Mode	Select On to optimize the enjoyment of fast paced video game capturing every movement. Game Mode can be set to each external input. Select Off to disable the mode.



Audio Options Settings

MTS

Enjoy stereo, bilingual and mono programs

Stereo

For stereo reception when viewing a TV program broadcast in stereo.

Auto SAP

Automatically switches the TV to second studio 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.



- **MTS** is available only for analog programs.

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 adjustments

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 **VOLUME** and **MUTING** buttons have no effect on the **Audio Out**.)

Variable

Select to control the **Audio Out**'s volume and muting with your TV's remote control.



- **Alternate Audio** feature 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 the **OPTIONS** button on the remote control when alternate audio stream is available from the broadcaster.



Channel Settings

Cable

On

For receiving cable channels via cable TV provider.

Off

For using an antenna.



- You should run **Auto Program** after changing the **Cable** setting.

Auto Program

Automatically sets up the channel list on the TV for all receivable channels. Channel scanning will be based on the **Cable On/Off** setting.

1 Select **Auto Program**.


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

3 Press **RETURN** to exit the **Auto Program**.




- Running **Auto Program** will clear **Favorites** list.
- If you run **Auto Program** again, previously scanned channels will be overwritten with the newly scanned channels.

(Continued)

Add Digital Channels	Select to add digital channels. Be sure to have the Cable option selected appropriately for the signal source.
Show/Hide Channels	<p>Allows you to show or hide channels when you surf with the CH +/- button or in the TV channel list on the XMB™.</p> <ol style="list-style-type: none"> 1 Press ▲/▼ to scroll through the channels until you highlight channel to show or hide. 2 Press ⊕ to select Shown or Hidden. To show or hide more channels, repeat steps 1-2. <p> • Hidden channels can be accessed by entering the channel number with 0-9 buttons on the remote control.</p>
Edit Channel Labels	<p>Assigns labels (such as station call letters) to channel numbers.</p> <ol style="list-style-type: none"> 1 Press ▲/▼ to scroll through the channel numbers. Then press ⊕ to select the channel number to assign a label. 2 Press ▲/▼ to scroll through the label characters (A-Z, 0-9, etc.). Press ▶ to move to the next character. Repeat to add up to 7 characters to the label. Then press ⊕ to set it. To assign labels to more channels, repeat steps 1-2.

Closed Captions (CC) Settings

CC Display	This option allows you to turn On or Off the Closed Captions (CC) feature.				
Analog CC	<p>Select this option for the basic analog (EIA-608) closed caption options.</p> <table border="1"> <tr> <td>CC1, CC2, CC3, CC4</td> <td>Displays a printed version of the dialogue or sound effects of a program. (Should be set to CC1 for most programs.)</td> </tr> <tr> <td>Text1, Text2, Text3, Text4</td> <td>Displays network/station information presented using either half or the whole screen (if available).</td> </tr> </table>	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).
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	Select this option for both analog (EIA-608) and digital (EIA-708) closed caption options. Select from CC1-4 and Service 1-6 (advanced digital closed caption options).				
Display Options	Customize the Closed Captions (CC) displays with Text, Character Size, Character Style, Character Color, Character Opacity, Edge Type, Edge Color, Background Color and Background Opacity .				




 • **Closed Captions (CC)** can be turned on and off directly by pressing the **CC** button 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.

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 the Change Password then enter the new password.	
	 <ul style="list-style-type: none"> You need your password for any future access into the Parental Lock setting. If you lose your password, see "Lost password" on page 44. 	
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 36.	
Rating	Off	Turns off Parental Lock . No programs are blocked from viewing based on their ratings.
	Child	Maximum ratings permitted are: U.S.: TV-Y, TV-G, G Canada: C, G, TV-Y
	Youth	Maximum ratings permitted are: U.S.: TV-PG, PG Canada: C8+, PG, 8 ans+, TV-PG
	Young Adult	Maximum ratings permitted are: U.S.: TV-14, PG-13 Canada: 14+, 13 ans+, TV-14
	Custom	Sets ratings manually. U.S.: See page 36 for details. Canada: See page 36 for details.
	 <ul style="list-style-type: none"> 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 <i>(Available only in U.S.A where advanced ratings exist)</i>	Off	Turn Digital Rating off. No programs containing digital ratings are blocked from viewing.
	Custom	Select to customize the Parental Lock with downloadable digital ratings.
	Clear All	Select to clear the downloaded ratings.
Unrated <i>(Available only when Country is set to U.S.A.)</i> Block programs or movies that are broadcast without a rating	Allow	Allows programs and movies that are broadcast without a rating.
	Block	Blocks all programs and movies that are broadcast without a rating.
	 <ul style="list-style-type: none"> If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather. 	
Channel Block	This option allows you to block channels regardless of program ratings. The password needs to be set up prior to blocking channels. The blocked channel can only be viewed by entering the correct password.	
	To View a Blocked Channel Press ENT button when tuned to the blocked channel then enter the password.	

(Continued)

Custom Rating System Chart

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

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 and under allowed

TV Rating <i>Block programs by their rating, content or both</i>	Age-Based Ratings	
	TV-Y	All children
	TV-Y7	Directed to children age 7 and older
	TV-G	General audience
	TV-PG	Parental guidance suggested
	TV-14	Parents strongly cautioned
	TV-MA	Mature audience only
	Content-Based Ratings	
	FV	Fantasy violence
	D	Suggestive dialogue
	L	Strong language
	S	Sexual situations
	V	Violence



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

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



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

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 Rating under U.S.A. for details.
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External Inputs Settings

Label Inputs	<p>To assign your own label or Skip:</p> <ol style="list-style-type: none"> 1 Press ▲/▼ to highlight the video input (Video 1, Video/Component 2, Video 3, Component 1, Component 3, HDMI 1, HDMI 2), then press ⊕ to select the desired input. 2 Press ▲/▼ to highlight the display label you want to assign, then press ⊕.  <ul style="list-style-type: none"> • You can select from the following labels for each input. Video 1-3 and Component 1-3: –, DVD, Cable Box, Satellite, BD, VCR, Receiver, DVR, Game, Camcorder, Skip. HDMI 1-2: DVD, Cable Box, Satellite, BD, VCR, Receiver, DVR, Game, Camcorder, PC, Skip. • “–” indicates that no labels are assigned and displayed with the default labeling.
Video/Component 2 Priority	<p>If both inputs are connected, then selecting Video 2 selects the composite input, and Component 2 selects the component input. If only one component or composite is connected, the TV will automatically select the connected input by default.</p> <p>To view signal from the equipment connected to the side terminal:</p> <ol style="list-style-type: none"> 1 Press HOME to display the XMB™. 2 Press ▶ button to get to the External Inputs. 3 Press ▲/▼ to highlight Video/Component 2 (dual composite/component connection).  <ul style="list-style-type: none"> • You will need to connect the audio cable in addition to connecting the component cables.




HDMI Settings

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

HDMI Control	On/Off feature allows your TV to communicate with other equipment that supports HDMI Control . You must select On to use the features listed below.
Device Auto Power Off	Select On to have your connected HDMI Control equipment to power off automatically when the TV is turned off. Select Off to disable this function.
TV Auto Power On	Select On to control your TV's power on from your connected HDMI Control equipment. Select Off to disable this function.
Device List	Displays a list of HDMI Control equipment connected to the TV.



General Settings

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) when option is set to On . Select Off for minimal display information. Selecting Off will not completely disable the banner display. Info Banner also appears on the screen each time the channel is changed or DISPLAY button on the remote control is pressed.  <ul style="list-style-type: none">• To see the rating information on the banner, Info Banner setting must be set to On.
Display Position	When selected, the guide markers for the TV Display Position will appear at four corners of the screen. Adjust Vertical position and/or Horizontal position by pressing ▲/▼/◀/▶ buttons to evenly position the markers.
Cooling Mode	Select High to use the TV at an altitude of 5,000 feet (1,500 m) or higher. Select Normal to use the TV at normal altitude.
Lamp Replacement	When the lamp nears the end of its life, a message will appear every time the TV is turned on. After the lamp is replaced, select this option then follow the steps on screen.



Initial Setup

If you have missed the **Initial Setup** when you first connected the TV or if you want to scan all receivable channels, you can run the **Initial Setup**. Follow the instructions on the screen. Settings such as picture and sound adjustments will not be affected by this **Initial Setup**.



- **Favorites** list will be cleared each time you run the **Initial Setup**.

Other Information

Replacing the Lamp

The projection lamp, like all lamps, will eventually lose brightness and functionality, which affects the overall performance of your TV. How long the lamp maintains its brightness will vary depending upon your usage and environmental conditions. To maintain the quality of your viewing experience, Sony recommends that you replace the lamp (1) after approximately 8,000 hours of use; (2) when the screen becomes dark or the color looks unusual; (3) when the LAMP LED on the front of the TV blinks; or (4) when the lamp replacement message appears on the TV screen.

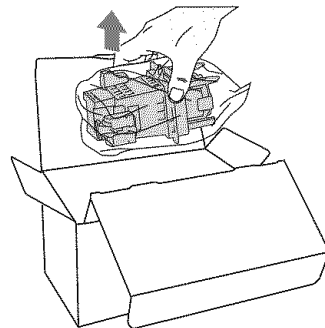
WARNING

Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- Use a Sony XL-2500 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the TV.
- Do not remove the lamp for any purpose other than replacement. Doing so may cause injury or fire.
- Do not put flammable materials and metal objects inside the lamp receptacle of the TV after removing the lamp. Doing so may cause fire or electrical shock. Do not touch the lamp receptacle once the lamp has been removed.
- When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and it is inherent to this type of lamp.
- In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of the broken glass pieces inside the lamp unit.
- This TV's lamp contains mercury and should be disposed of properly. Consult your local authorities regarding safe disposal. The material contained in this lamp is similar to those of a fluorescent lamp, so you should dispose of it in the same way.

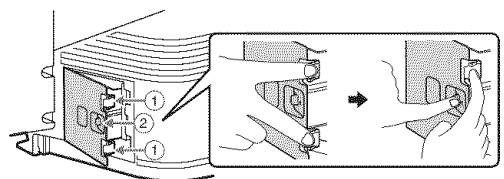
How to Replace the Lamp

- 1** Turn off the power on the main unit. Wait several minutes, then unplug the power cord. (The cooling fan will continue to operate for about two minutes after turning the power off.)
- 2** Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it. To avoid being burned, do not touch the lamp receptacle once the lamp has been removed.
- 3** Take the new lamp out of the box. Do not touch the glass portion of the new lamp.



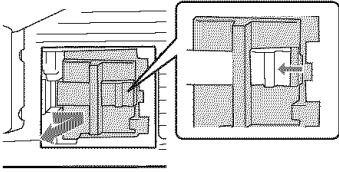
- Do not shake the lamp. Vibration can damage the lamp or shorten its life.
- Avoid touching the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

- 4** Remove the outside lamp cover. Using equal force, press both hooks (marked by ①) towards the TV screen in the direction the arrows are pointing. While pressing the two hooks (marked by ①), push the center lever (marked by ②) towards the TV screen and pull the lamp cover towards you. The lamp cover should come off easily.

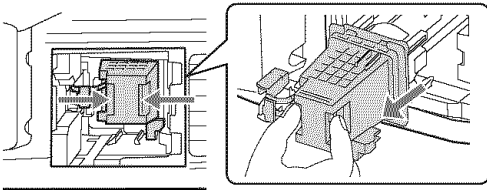


(Continued)

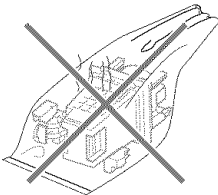
- 5** Remove the lamp door.
Holding the door knob, press the door lever toward the door knob in the direction the arrow is pointing. Then, pull the lamp door out of the TV towards you.



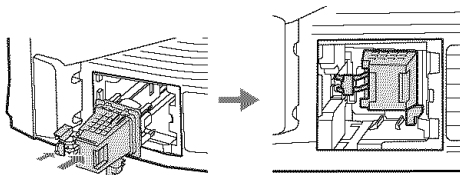
- 6** Pull the lamp out of the TV.
Grip the lamp by the indented grooves as illustrated below.
Pull the lamp straight out of the TV as illustrated below.



- The lamp is very hot immediately after use. Do not touch the inside of the lamp compartment, the glass portion of the lamp, or the surrounding parts.
- After the used lamp has cooled, place it into the empty box of the replacement lamp. Never put the used lamp into a plastic bag.

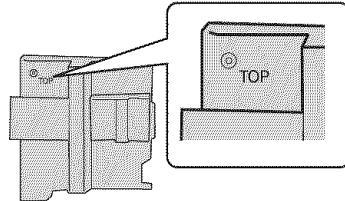


- 7** Slide the new lamp into its place.
Insert the new lamp into place by holding the indented grooves firmly. Make sure the lamp is securely mounted into the compartment.
Failure to do so may cause a fire or the screen to go dark.

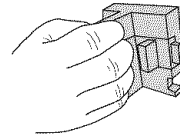


- If the lamp is not securely reattached, the self-diagnostic function may be triggered and the POWER LED blinks six times (see page 21).

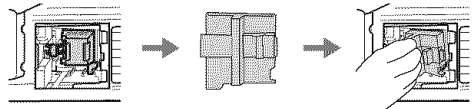
- 8** Reattach the lamp door.
Be sure that the word “TOP” imprinted on the lamp door is on top while placing the door lamp into the compartment.



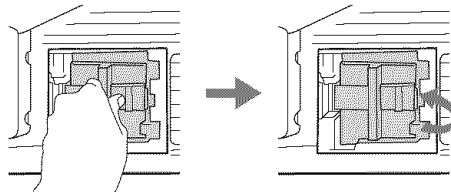
- Grip the door knob, but do not hold in the door lever when sliding the lamp door into the compartment.



- While keeping the lamp door at a slant, slide the lamp door into the compartment by leading with the left side. Insert the two tabs into the slot and follow the guide rail. Once the left side can no longer be pushed in, press the lamp door lever toward the door knob.

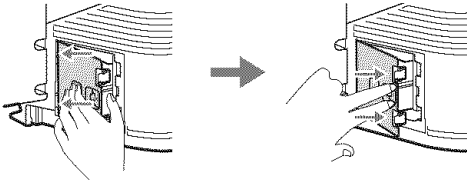


- Shut the lamp door by releasing the door lever.



- The lamp door is securely closed when a clicking sound occurs. Make sure it is securely closed by tugging on the door knob.

- 9** Put the outside lamp cover back in its place. Insert the two small tabs from the left side of the outside lamp cover into the slots of the TV. Push in the two larger tabs of the outside lamp cover on the right side into the TV. The outside lamp cover is securely closed after two clicking sounds are made.



- 10** Plug in the power cord. Turn on the TV and set the **Lamp Replacement** option in the **General** settings (see page 38). This setting is necessary to inform you when the next lamp replacement is needed.



- Until you set the **Lamp Replacement** option, a message announcing that the lamp is at the end of its life will appear every time you turn on the TV.
- Consult your Sony dealer for a Sony XL-2500 replacement lamp.
- Take great care when replacing the lamp or plugging in/unplugging the connecting cords. Rough handling may cause the TV to fall, damaging the TV, the TV stand and the floor.

The used lamp

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).

- Do not leave the used lamp near flammable materials or within the reach of children.
- Do not pour water onto the used lamp or put any object inside the lamp. Doing so may cause the lamp to burst.

For replacement lamp information visit:

U. S. residents:

<http://www.sonystyle.com/tv/>

Canadian residents:

<http://www.sonystyle.ca/tv/>

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>
 1-800-222-SONY(7669) for US Support
 1-877-899-SONY(7669) for Canadian Support

Condition	Explanation/Solution
No picture	
Cannot receive any channels	<ul style="list-style-type: none"> • Make sure the power cord is connected securely. • Turn on the power of the TV. • Check antenna/cable connections. • Make sure the Cable setting is correct for your TV signal source.
TV is locked to one channel	<ul style="list-style-type: none"> • Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 19 and 33).
Cannot receive or select channels	<ul style="list-style-type: none"> • Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 19 and 33). • To receive or select cable channels, make sure that Cable in the Channel settings is set to On (see page 33). To receive or select UHF channels over an antenna, make sure Cable is set to Off.
The TV turns off automatically	<ul style="list-style-type: none"> • Check if Sleep Timer is activated, or confirm the Duration setting of Timer (see page 28).
No picture from some video sources	<ul style="list-style-type: none"> • Check the connection between the optional video equipment and the TV. • Press INPUT on the remote control (see page 25). • Press HOME on the remote control. Select your desired input from the External Inputs list.
Poor picture	
The quality of the images is not as good as what I saw at the store	<ul style="list-style-type: none"> • Picture quality depends on the signal content. See Quick Setup Guide (supplied) to display the best possible picture for that signal.
Double images or ghosts	<ul style="list-style-type: none"> • Check antenna/cable connections. • Check the antenna location and direction.
Only snow and noise appear on the screen	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers. • If using 300 ohm twin lead, move the excess lead away from the TV or try using 75 ohm coaxial cable instead.
No color/Dark picture/Color is not correct/The picture is too bright	<ul style="list-style-type: none"> • Press PICTURE to select the desired Picture Mode (see page 23). • Adjust the Picture Mode options in the Picture settings (see page 28).
Noisy picture	<ul style="list-style-type: none"> • Make sure that the antenna is connected using the supplied 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.

Condition	Explanation/Solution
No sound/Noisy sound	
Good picture, no sound	<ul style="list-style-type: none"> • Check the volume control. • Press MUTING or VOL + so that “Muting” disappears from the screen (see page 23). • Set Speakers to TV Speakers in the Audio Options settings (see page 33). If it is set to Audio System, sound is not output from the TV’s speakers regardless of the TV’s volume control. • Make sure that the audio is connected.
Audio noise	<ul style="list-style-type: none"> • Make sure that the antenna is connected using the supplied 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 for HDMI	<ul style="list-style-type: none"> • Confirm DVD player, set-top-box audio settings. Select 2 channel LPCM audio.
PC Input	
No Picture / No Signal	<ul style="list-style-type: none"> • Confirm the PC is connected to the TV with the HDMI IN. • Ensure the output signal from the PC is one of the formats listed on page 16. • Turn the PC off. Confirm the PC connection and restart the PC. Plug and play will auto-detect the TV and correctly set the correct resolution.
Poor Picture	<ul style="list-style-type: none"> • Adjust the resolution (see page 16).
General	
Wide Mode changes automatically	<ul style="list-style-type: none"> • The current Wide Mode setting is automatically replaced with the 4:3 Default setting when you change the channel or video input, if 4:3 Default in the Screen settings is set to other than Off. If you want to lock in Wide Mode selected with WIDE on the remote control, set 4:3 Default to Off in the Screen settings (see page 31). • Check the Auto Wide option in the Screen settings (see page 31).
“Black box” on screen	<ul style="list-style-type: none"> • You have selected a text option and no text is available (see page 34). To turn off this feature, set the CC Display option to Off. If you were trying to select closed captioning, select CC1 instead of Text1-4.
Black bands appear at the edges of the screen	<ul style="list-style-type: none"> • Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider). • Programs in 4:3 aspect ratio will have bands on left and right sides of the screen.
Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes	<ul style="list-style-type: none"> • This is due to the digital compression of the source content used by certain digital broadcasts and DVDs which may cause your TV’s screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. These signal compressions are more visible and are dependent on the clarity and resolution of the television.
Remote control does not operate	<ul style="list-style-type: none"> • Check the polarity of the batteries or replace the batteries. • Point the remote control at the remote control sensor located at the front of the TV. • Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps. • Keep the remote control sensor area clear from obstacles.
Some digital cable channels are not being displayed	<ul style="list-style-type: none"> • 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 34).

(Continued)

Condition	Explanation/Solution
Lost password	<ul style="list-style-type: none"> • Select the Password settings on the Parental Lock settings, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password (see page 35).
How to reset the TV to factory settings	<ul style="list-style-type: none"> • 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.
LAMP LED blinks in red	<ul style="list-style-type: none"> • Replace the lamp (see page 39).
“Lamp Replacement message” appears	<ul style="list-style-type: none"> • It is time for you to replace the projection lamp used in you TV. • Turn to page 39 on “How to Replace the Lamp” and follow the directions on replacing the lamp. • Use only the lamp designated for your TV model. • After the lamp is replaced, select the Lamp Replacement option in the General settings.
The replacement lamp does not light up	<ul style="list-style-type: none"> • The lamp door or lamp might not be securely attached. Repeat the steps on page 39 to ensure that they are both installed securely.
The cooling fan is loud	<ul style="list-style-type: none"> • If the TV is used at high altitudes and the Cooling Mode is set to High, the cooling fan runs faster and its sound becomes louder. If the TV is not used at high altitudes, set Cooling Mode to Normal (see page 38).
“High Temperature Warning!” message appears	<ul style="list-style-type: none"> • Make sure to remove dust from the ventilation slots on the rear and both sides of the TV. In addition, make sure that there are no obstacles in front of the ventilation slots. If the message still appears after the dust or obstacles are removed, the TV may need servicing. Call your local Sony Service Center.
Image left on the screen (image retention)	<ul style="list-style-type: none"> • Turn off the TV for a while or let the TV run on another channel. Unlike plasma TV and CRT TV, image retention on this TV is not permanent. It is only a temporary condition (see page 10).
White spot on the screen when powered off	<ul style="list-style-type: none"> • If screen is exposed to direct sunlight or strong ambient light, part of the screen may appear white even when TV is power off. This is due to the strong light reflecting off the TV screen and reflections coming from behind the screen. This is a structural property of the projection TV and is not a defect. • Position your TV away from such light sources.

Specifications

Model	KDF-37H1000
System	
LCD Panel	0.73 inch TFT LCD panel (1,280 × 720 pixels) All the video inputs are converted to fit this panel resolution.
Projection system	3 LCD Panels, 1 lens projection system
Projection Lens	High Performance, large diameter hybrid lens F2.4
Lamp	100 W, XL-2500 Ultra High Pressure Lamp
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)
Channel coverage	Analog terrestrial: 2-69 / Digital terrestrial: 2-69 Analog Cable: 1-125 / Digital Cable: 1-135
Panel system	LCD (Liquid Crystal Display) Panel
Speaker output	12 W + 12 W
Input/Output jacks	
Antenna	75-ohm external terminal for VHF/UHF
VIDEO IN 1/2/3	S VIDEO (4-pin mini DIN) (VIDEO 1 only): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO: 500 mVrms (100% modulation)/ Impedance: 47 kilohms
COMPONENT IN 1/2/3	YPBPR (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms / PR: 0.7 Vp-p, 75 ohms / Signal format: 480i, 480p, 720p, 1080i AUDIO: 500 mVrms (typical)/ Impedance: 47 kilohms
HDMI IN 1/2	HDMI: Video: 480i, 480p, 720p, 1080i, 1080p, PC timing / Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24bits AUDIO (HDMI IN 2 only): 500 mVrms (100% modulation)/ Impedance: 47 kilohms
AUDIO OUT	500 mVrms (100% modulation)/ Up to 2 Vrms at the maximum volume setting (varies with input level)
DIGITAL AUDIO OPTICAL OUT	PCM/Dolby Digital optical signal
Power and others	
Power requirement	120 V, 60 Hz
Power consumption in use	200 W
in standby	Less than 0.8 W
Screen size (inches)	37 diag.
Speaker/Full range (2)	65 × 130 mm (2 ⁹ / ₁₆ × 5 ¹ / ₈ inches)
Dimensions (W/H/D)	899 × 663 × 342 mm (35 ⁷ / ₁₆ × 26 ¹ / ₈ × 13 ¹ / ₂ inches)
Mass	20 kg (44 lb. 2 oz.)
Supplied accessories	Remote control RM-YD014 (1) / Size AA batteries (2) / Operating Instructions (1) / Quick Setup Guide (1) / Warranty Card (1) / Online Registration Card (U.S.A. only) (1)
Optional accessories	Connecting cables, Lamp: XL-2500 Ultra High Pressure Lamp



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

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For Your Convenience

Please contact Sony directly if you:

- Have questions on the use of your television after reading your Operating Instruction manual and Quick Setup Guide
- Experience difficulty operating your television

Contact Sony Customer Support at:

<http://www.sony.com/tvsupport>

or to speak with a support representative:

United States

1-800-222-SONY (7669)

Canada

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

<http://www.sony.net/>

Printed in U.S.A.



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