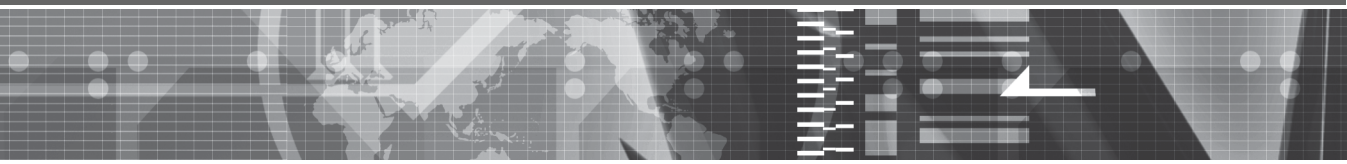
SONY

3-213-437-**14**(1)

LCD Digital Color TV



Operating Instructions

KDL-26M3000 KDL-26ML130
KDL-32M3000 KDL-32ML130
KDL-37M3000

BRAVIA

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Owner's Record

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

Model Name

_____

Serial No.

_____

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 product'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 appliance.

The TV must not be exposed to dripping or splashing. Do not place objects filled with liquids, such as vases 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: KDL-26M3000/KDL-26ML130/
KDL-32M3000/KDL-32ML130/
KDL-37M3000
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.

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 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.

CAUTION

Use the following Sony TV's only with the following WALL-MOUNT BRACKET.

	Sony TV Model No.	
	KDL-26M3000 KDL-26ML130	KDL-32M3000 KDL-32ML130 KDL-37M3000
Sony Wall-Mount Bracket Model No.	SU-WL100	SU-WL500

Use with other WALL-MOUNT BRACKET may cause instability and possibly result in injury (see page 12).

To Customers

Sufficient expertise is required for installing the specified TV. Be sure to subcontract the installation to Sony dealer or licensed contractors 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.

For Customers in Canada

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

Contents

Important Safety Instructions 4

Welcome to the World of BRAVIA™

The Four Steps to Stunning HD Experience: Set, Sound, Source, and Setup 9

Picture Quality and Aspect Ratio 9

Getting Started

1. Installing the TV 11

Preventing the TV from Toppling Over 11

Bundling the Connecting Cables 11

Preparation for Wall-Mounting 12

2. Locating outputs and inputs 13

Left side 13

Rear 14

3. Connecting the TV 16

Cable system and/or VHF/UHF 16

HD Cable Box/HD Satellite Box 16

PC 18

Other Equipment 19

4. Setting Up the Channel List - Initial Setup 20

Basic Operations

Remote Control and TV Controls/Indicators 21

Inserting Batteries into the Remote control 21

Remote Control 21

Indicators 24

Using the TV Menus

Navigating through TV Menus 25

Menu Descriptions 25

Using the Applications Menu 26

Using the Picture Menu 28

Using the Sound Menu 28

Using the Screen Menu 29

Using the Channel Menu 30

Using the Parental Lock 31

Using the Setup Menu 35

Other Information

Troubleshooting 38

Specifications 41

Index 42

Trademark Information

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

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

This TV incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Blu-ray is a trademark. “BRAVIA” and BRAVIA, , and PS3 are trademarks or registered marks of Sony Corporation.

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.

USE

AC power cord

Observe the followings to prevent the AC power cord from being damaged. If the AC power cord is damaged, it may result in a fire or an electric shock. Stop using it and ask your dealer or Sony Service center to exchange it.

- ☐ Do not place the TV where the power cord is subject to wear or abuse.
- ☐ Do not pinch, bend, or twist the cord excessively. The core lines may be bared and cut, and causing a short-circuit, resulting in a fire or an electric shock.
- ☐ Do not convert or damage the power cord.
- ☐ Do not allow anything to rest on or roll over the power cord.
- ☐ Do not pull the power cord.
- ☐ Do not move the TV with the power cord plugged in.
- ☐ Keep the power cord away from heat sources.
- ☐ Be sure to grasp the plug when disconnecting the power cord.

Wall outlet

Do not use a poor fitting outlet.
Insert the plug fully into the outlet. If it is loose, it may cause arcing and result in a fire.
Contact your electrician to have the outlet changed.

Wiring

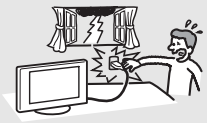
When connecting cables, be sure to unplug the AC power cord for your safety.
Take care not to catch your feet on the cables, it may damage the TV set.

Electric shock

Do not touch the AC power cord or the TV with a wet hand. If you plug/unplug the AC power cord from the wall outlet with a wet hand, it may cause electric shock.

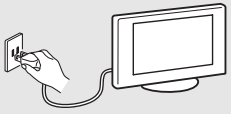
Lightning storms

For added protection for this TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the TV due to lightning and power line surges.

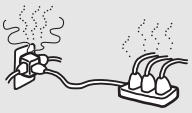


When not in use

If you will not be using the TV set for several days, the TV set should be disconnected from the AC power outlet for environmental and safety reasons. The TV set is not disconnected from the AC power source when the TV set is switched off. To disconnect the TV set completely, pull the plug from the AC power outlet. However, some TV sets may have features which need the TV set to be left in standby to work correctly. The instructions in this manual will inform you if this applies.



Overloading



This TV set is designed to operate on a 120 V AC supply only. Take care not to connect too many appliances to the same AC power outlet as this could result in a fire or an electric shock.

Optional equipment

Do not install optional equipment too close to the TV set. Picture distortion and/or noisy sound may occur if the TV set is positioned in close proximity to any equipment emitting electromagnetic radiation.

Small accessories

Keep small accessories out of children's reach.

ANTENNAS

Outdoor antenna grounding

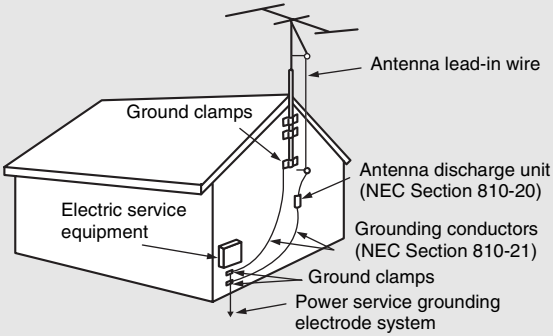
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

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 the 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 National Electrical Code, ANSI/NFPA 70



BATTERIES

- ☐ Do not dispose of batteries in a fire.
- ☐ Do not short circuit, disassemble or overheat the batteries.
- ☐ Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Disposal of used batteries

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

CLEANING

Cleaning the AC power plug

Unplug the AC power plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate and result in a fire.

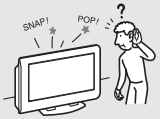
Cleaning the screen surface/ cabinet of the TV set

Unplug the AC power cord when cleaning this TV. If not, it may result in electric shock. 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 a solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning. If using a chemically pretreated cloth, please follow the instruction provided on the package. The ventilation holes can accumulate dust over time. To ensure proper ventilation, we recommend removing the dust periodically (once a month) using a vacuum cleaner.

MAGNETIC INFLUENCE

This TV contains a strong magnet in the speaker unit that generates a magnetic field. Keep any items susceptible to magnetic fields away from the speaker.

SOUND



If a snapping or popping sound from the TV is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TVs to make occasional snapping or popping sounds, particularly when being turned on or off.

VENTILATION

The slots and openings in the TV are provided for necessary ventilation. To ensure reliable operation of the TV, and to protect it from overheating, these slots and openings must never be blocked or covered.

Unless proper ventilation is provided, the TV may gather dust and get dirty. For proper ventilation, observe the following:

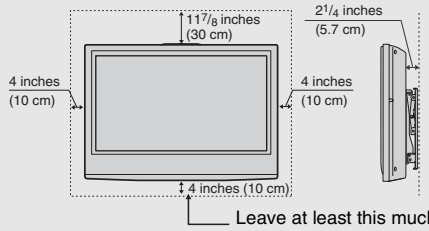
- ☐ Do not install the TV face up or down or sideways.
- ☐ Do not install the TV turned over or upside down.
- ☐ Never cover the slots and openings with a cloth or other materials.

- ☐ Never block the slots and openings by placing the TV on a bed, sofa, rug or other similar surface.

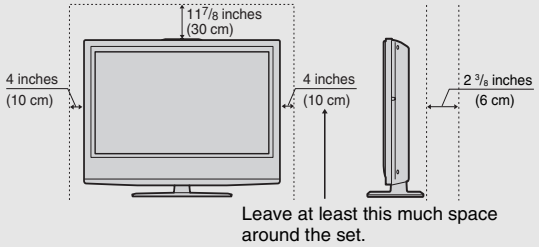
- ☐ Never place the TV in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

Leave some space around the TV set as shown below. Otherwise, air-circulation may be inadequate and cause overheating, which may cause a fire or damage to the TV set.

Installed on the wall

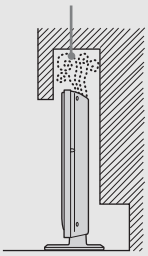


Installed with stand

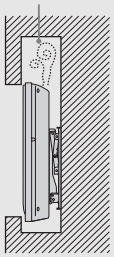


Never install the TV as follows:

Air circulation is blocked.



Air circulation is blocked.



Objects and ventilation holes

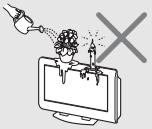
Never push objects of any kind into the TV through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or an electric shock. Do not place any objects on the TV.

MOISTURE

Moisture and flammable objects

- ☐ Do not use power-line operated TV sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc. It may result in a fire or an electric shock.

- ☐ Do not let this TV get wet. Never spill liquid of any kind on the TV. If any liquid or solid object does fall through, do not operate the TV. It may result in electric shock or damage to the TV. Have it checked immediately by qualified personnel.
- ☐ To prevent fire, keep flammable objects or open flame (e.g. candles) away from the TV.
- ☐ Do not place any objects on the TV.



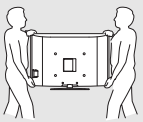
- ☐ The TV must not be exposed to dripping or splashing. Do not place objects filled with liquids, such as vases, on the TV.

CARRYING THE TV

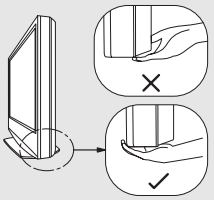
Carry the TV in the specified manner

To avoid dropping the TV and causing serious injury, be sure to follow these guidelines:

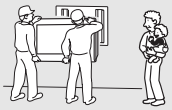
- ☐ Before carrying the TV set, disconnect all cables.
- ☐ Carrying the large size (32/37 inches) TV requires two or more people.



- ☐ When you carry the TV, place your hand as illustrated and hold it securely. Do not put stress on the LCD panel and the frame around the screen.
- ☐ When lifting the TV set or moving the panel, hold it firmly from the bottom. Place your palm directly under the panel
- ☐ When carrying the TV set, do not subject it to shocks or vibration, or excessive force.



INSTALLATION



Wall mount installation requires the use of a Wall-Mount Bracket. When installing or removing the TV, using the Wall-Mount Bracket, be sure to use qualified contractors. If not properly secured during installation or removal from the Wall-Mount Bracket, the TV may fall and cause serious injury.

Optional wall mount

Observe the following when installing the TV using a wall-mount bracket. If the TV is not secured properly, it may fall and cause injury.

- ☐ Be sure to follow the operating instructions supplied with the wall-mount bracket when installing the TV.
- ☐ Be sure to attach the brackets supplied with the wall-mount bracket.
- ☐ Do not hang the TV from the ceiling. It may fall and cause serious injury.

Placement for viewing

It is recommended to watch the TV at a distance of 3 - 7 times that of the screen height, and in moderate brightness. Watching the TV for too long or in a dark room may cause eye fatigue. To obtain a clear picture, do not expose the screen to direct illumination or direct sunlight. If possible, use spot lighting directed down from the ceiling.

Placement

The TV should be installed near an easily accessible AC power outlet.

Observe the following in placing the TV. Otherwise the TV may fall from the stand or wall mount, causing damage or serious injury.

- ☐ Place the TV on a stable, level surface.
- ☐ Do not hang anything on the TV. Do not allow children to climb on the TV.

Do not install the TV in places subject to extreme temperatures, such as in direct sunlight, near a radiator, or near a heating vent. If the TV is exposed to extreme temperature, the TV may overheat and cause deformation of the enclosure or cause the TV to malfunction. Do not install the TV in a place exposed to direct air conditioning. If the TV is installed in such a location, moisture may condense inside and may cause a malfunction.

- ☐ Never place the TV in hot, oily, humid or excessively dusty places.
- ☐ Do not install the TV where insects may enter.
- ☐ Do not install the TV where it may be exposed to mechanical vibration.
- ☐ Do not install the TV in a location where it may protrude, such as on or behind a pillar, or where you might bump your head on it. Otherwise, it may result in injury.

Outdoor use

Do not install this TV outdoors. If the TV is exposed to rain, it may result in a fire or an electric shock. Do not expose the TV to direct sunlight, it may heat up and become damaged.

Vehicle, ships and other vessels

Do not install this TV in a vehicle. Bumping of the vehicle may cause the TV to fall down and cause injury.

Do not install this TV in a ship or vessel. If the TV is exposed to seawater, it may cause a fire or damage the TV and also shorten the life of the TV.

Corrosion

If you use this TV near the seashore, salt may corrode metal parts of the TV and cause internal damage or fire; it may also shorten the life of the TV.

Oils

Do not install this TV in restaurants where oily vapors occur. Dust absorbing oil may enter and damage the TV.

Medical institution

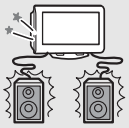
Do not place this TV in a place where medical equipment is in use. It may cause a malfunction of medical equipment.

Preventing the TV from toppling over

Take measures to prevent the TV from toppling over and causing injury. To prevent the TV from toppling over, secure the TV to a wall or stand.

Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



VOLUME ADJUSTMENT

- ☐ Adjust the volume so as not to trouble your neighbors. Sound carries very easily at night. Therefore, closing the windows or using headphones is suggested.
- ☐ When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

LCD SCREEN

- ☐ Although the LCD screen is made with high-precision technology and has effective pixels of 99.99% or more, black dots or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a malfunction.
- ☐ The LCD screen is made with high-precision technology and to achieve a high level of performance and picture quality, this TV's backlight setting is set to maximize the brightness of the TV. However, uneven brightness may be observed when the LCD TV is viewed in a dark ambient without an input source or blank screen. This condition is normal and not a malfunction of the TV. Changing the Picture mode, Backlight setting, or enabling the Light Sensor, will improve this condition.
- ☐ Do not expose the LCD screen surface to direct sun light. Doing so may damage the LCD panel.
- ☐ Do not push or scratch the LCD screen, or place objects on top of the TV. The image may be uneven or the LCD panel may be damaged.
- ☐ If the TV is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomenon improve as the temperature rises.
- ☐ Ghosting may occur when still pictures are displayed continuously. It should disappear after a few moments.
- ☐ The screen and cabinet get warm when the TV is in use. This is not a malfunction.
- ☐ Avoid spraying insect repellent with volatile material on the screen.
- ☐ Avoid prolonged contact with rubber or plastic made material.

Broken pieces

Do not throw anything at the TV.
The screen glass may break by the impact and cause serious injury.

If the surface of the TV cracks, do not touch it until you have unplugged the AC power cord.
Otherwise electric shock may result.

Handling of broken glass and liquid crystal leakage

If the LCD panel gets damaged, crystalline liquid leakage may occur, or scattered broken glass may result. Do not touch broken glass or crystalline liquid (which is toxic), with bare hands as cuts, poisoning or skin irritation may occur. Also, do not let glass fragments or leaked crystalline liquid get into your eyes or mouth. Should either contact your eyes or mouth, rinse the contacted area thoroughly with water and consult your doctor.

SERVICING

Do not attempt to service the TV yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement parts

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

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

Safety check

Upon completion of any service or repairs to the TV, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the TV is in safe operating condition, and to so certify. Should the TV not be repairable, ask a qualified service technician to dispose of the TV.

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 16). 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 1080i HD signals. When you compare a high-definition signal to a standard analog signal, you will notice a big difference. The 1080i 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 wide screen aspect ratio of 16:9. The 16:9 fills your BRAVIA screen and maintains 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.

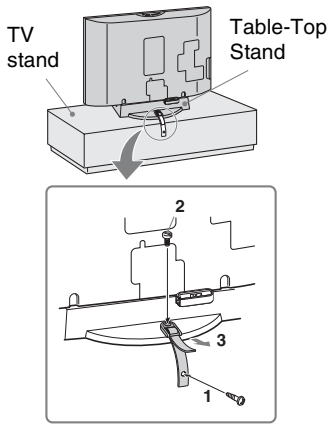
- You can use the **Wide Mode** function of the TV to adjust the 4:3 image to fit the entire screen (see pages 23 and 29).
- This TV supports signals up to 1080i.

Getting Started

1. Installing the TV

- The Table-Top Stand for this product is packaged separately (for models KDL-26M3000/KDL-26ML130/KDL-37M3000). To install the TV unit to the Table-Top Stand before the connection and setup, refer to the Table-Top Stand instructions (supplied with the TV set).

Preventing the TV from Toppling Over



1 Screw the support belt (supplied) to the TV stand (not supplied) with a wood screw (supplied).

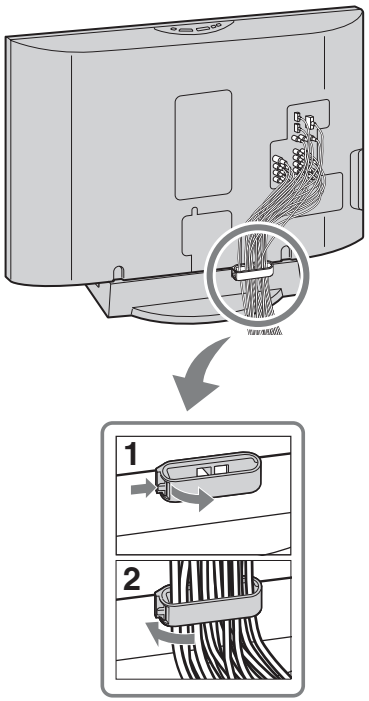
2 Attach the support belt to the Table-Top Stand with the securing screw (supplied) using a coin, etc.

3 Adjust the length by pulling the support belt toward you while holding the Table-Top Stand.

- Be sure to take measures to prevent the TV from toppling over and causing injury.
- The supplied wood screw may not be used depending on the type of TV stand. In this case, or when the securing strength is not enough, use commercial screws $^{1}/_{8}$ to $^{3}/_{16}$ inch (3 to 4 mm) diameter to fit to the TV stand. Consult your dealer about the types of screw(s).

Bundling the Connecting Cables

You can bundle the connecting cables as illustrated below.



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

Preparation for Wall-Mounting

This TV can be installed on a wall by using a Wall-Mount Bracket (sold separately). Before mounting the TV on a wall, the Table-Top Stand must be removed from the TV.

- Do not remove the Table-Top Stand for any reason other than to wall-mount the TV.

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

1. Disconnect all the cables from the TV.
2. Gently lay the TV, face down, onto a level and stable surface covered with a thick and soft cloth. Make sure the Table-Top Stand is hanging over the edge.
3. Remove the screws as shown in the illustration for your model and pull the Table-Top Stand out.
4. Do not remove any other screws from the TV.

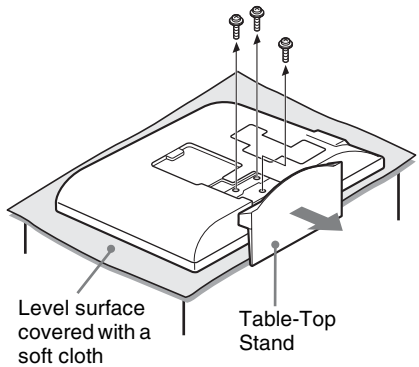
- Be sure to store the removed screws and Table-Top Stand in a safe place until you are ready to reattach the Table-Top Stand. Keep the screws away from small children.
- For bracket installation, refer to the Wall-Mount insert (supplied in the accesories) and the instruction guide provided by the Wall-Mount Bracket model for your TV. Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV's weight.
- **For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and the wall-mounting of your TV should be performed by a Sony dealer or licensed contractor.**

Use the following Sony TV's only with the following WALL-MOUNT BRACKET.

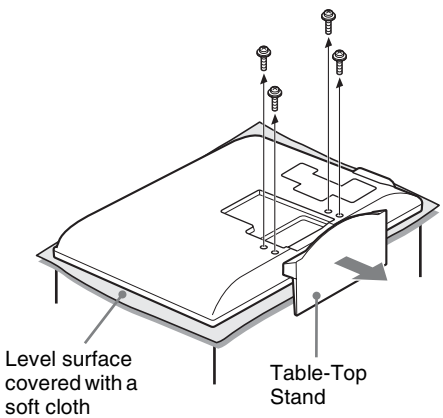
	Sony TV Model No.	
	KDL-26M3000 KDL-26ML130	KDL-32M3000 KDL-32ML130 KDL-37M3000
Sony Wall-Mount Bracket Model No.	SU-WL100	SU-WL500

- Use with other WALL-MOUNT BRACKET may cause instability and possibly result in injury.

Model: KDL-26M3000
KDL-26ML130
KDL-32M3000
KDL-32ML130
Remove 3 designated screws only.

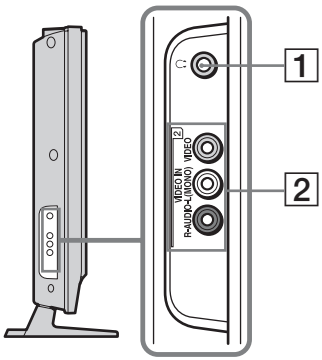


Model: KDL-37M3000
Remove 4 designated screws only.



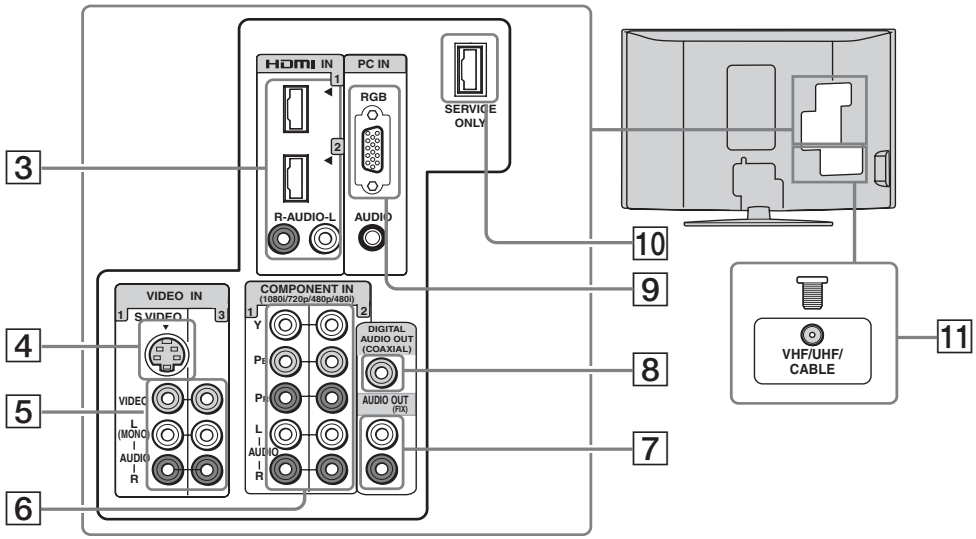
2. Locating outputs and inputs

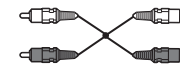
Left side



Item		Description
1	**Headphones jack**	Connects to your headphones. If your headphones do not match the jack, use a suitable plug adapter (not supplied). ✍ • While headphones are connected, the TV speakers are muted.
2	**VIDEO IN 2 VIDEO/ L (MONO)- R AUDIO**	Connects to the composite video and audio output jacks on your camcorder or other video equipment such as a VCR or video game equipment. ✍ • If you have mono equipment, connect its audio output jack to the TV's L (MONO) audio input jack.

Rear



Item		Description
3	**HDMI IN 1/2 R-AUDIO-L**	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 DVD player, a set-top box, A/V receiver and Blu-ray disc player as well as PC. HDMI supports enhanced or high definition video plus digital audio. ✍ • If the equipment has a DVI and not a HDMI connector, use a HDMI to DVI cable or adapter to connect the DVI output to either HDMI IN 1 or HDMI IN 2 input, and connect the audio jacks to the AUDIO (L/R) jacks below the HDMI IN 2. (DVI connector is for video signals only, the Audio jacks provide support for the audio.)
		HDMI-to-DVI cable HDMI-to-DVI adapter  Audio cable
		✍ • For better PC view, use the PC IN (RGB IN) input. • HDMI connection is necessary to view 480i, 480p, 720p, and 1080i formats. Note that this TV displays all video input signals in a resolution of 1,366 dots × 768 lines.
4	**VIDEO IN 1 S VIDEO**	Connects to the S VIDEO output jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than composite video (5). S VIDEO does not provide sound, you need to connect the audio cables.
5	**VIDEO IN 1/3 VIDEO/ L(MONO)- AUDIO-R**	Connect 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) input is located on the left side panel of the TV.

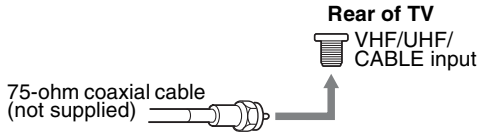
Item		Description
6	**COMPONENT IN (1080i/720p/480p/480i)/ L-AUDIO-R**	Connect to your DVD player's or digital set-top box's component video (YP_BP_R) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (4) or the composite video (5) connections.
7	**AUDIO OUT (FIX)**	Connect to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
8	**DIGITAL AUDIO OUT (COAXIAL)**	Connects to the coaxial audio input of a digital audio equipment that is PCM/Dolby Digital compatible.
9	**PC IN (RGB/AUDIO)**	Connect to a personal computer's video output connector using HD15-HD15 cable (analog RGB, not supplied). See **PC Input Signal Reference Chart** on page 18 for the signals that can be displayed. ✍ • For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If this is the case, connect the adapter to the computer before connecting the HD15-HD15 cable.
10	**SERVICE ONLY**	This USB port is for service only.
11	**VHF/UHF/ CABLE**	RF input that connects to your Cable or VHF/UHF antenna.

✍
• Component video (YP_BP_R) or HDMI connection are necessary to view 480i, 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in its native resolution of 1,366 dots × 768 lines.

3. Connecting the TV

Cable system and/or VHF/UHF

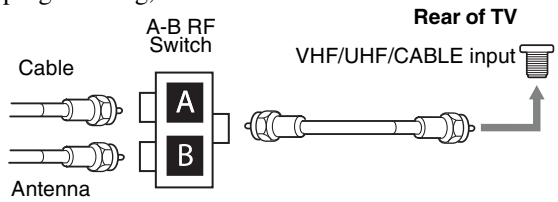
Cable or VHF/UHF (or VHF only)



- It is strongly recommended that you connect the antenna/cable input using a 75-ohm coaxial cable (not supplied) to receive optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio frequency interference, resulting in signal degradation.

Cable and VHF/UHF (or VHF only)

If you want to watch both cable and antenna (over-the-air) programming, you will need to use an optional A-B RF Switch (not supplied) to switch between the cable and over-the air antenna programming, as shown.

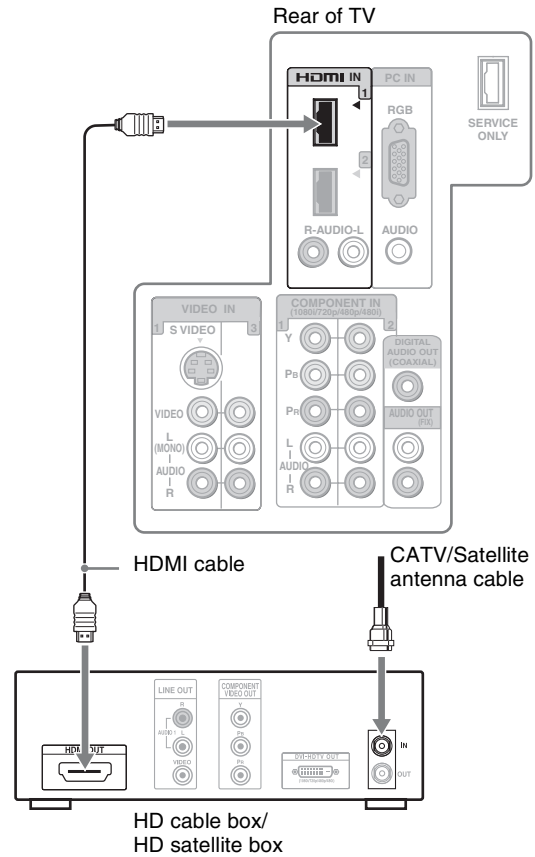


- Be sure to set **Cable** setting to **Cable On** or **Cable Off** in **Channel** menu for the type of input signal you choose (see page 30 for more details.).

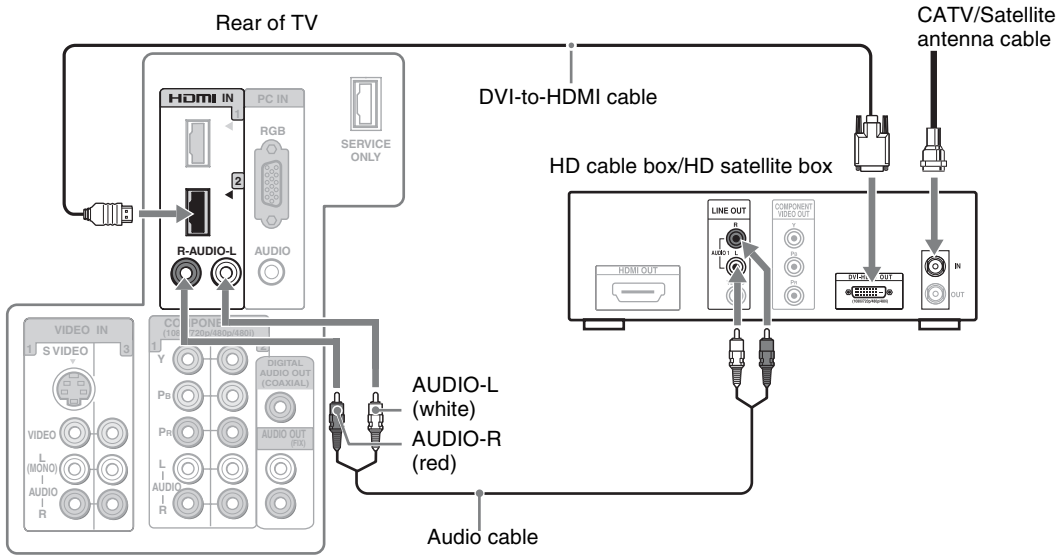
HD Cable Box/HD Satellite Box

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

Shown with HDMI Connection

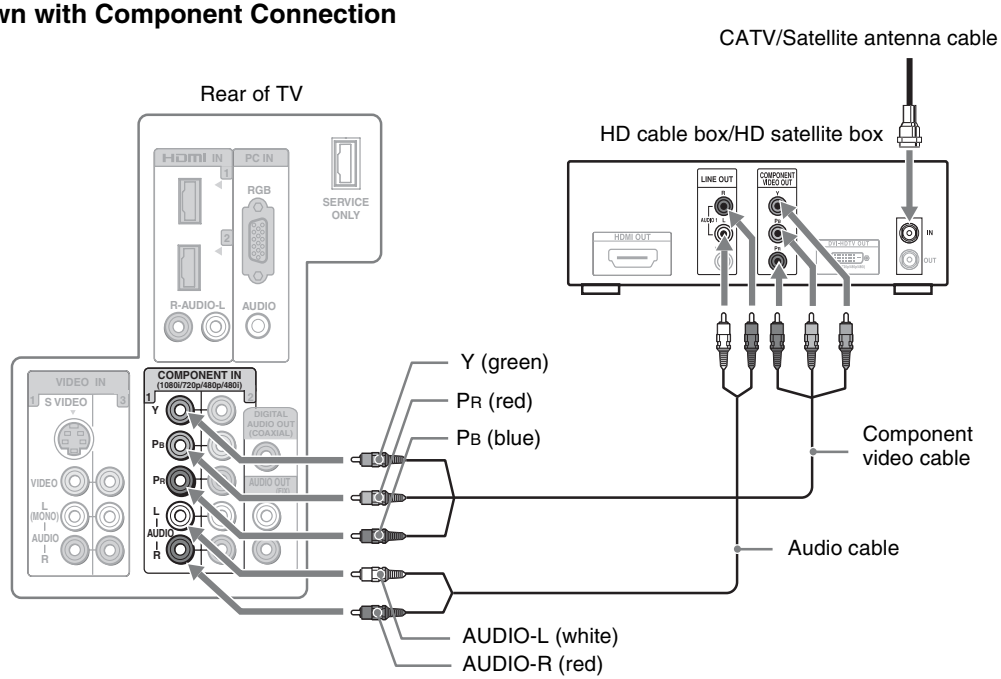


Shown with DVI Connection



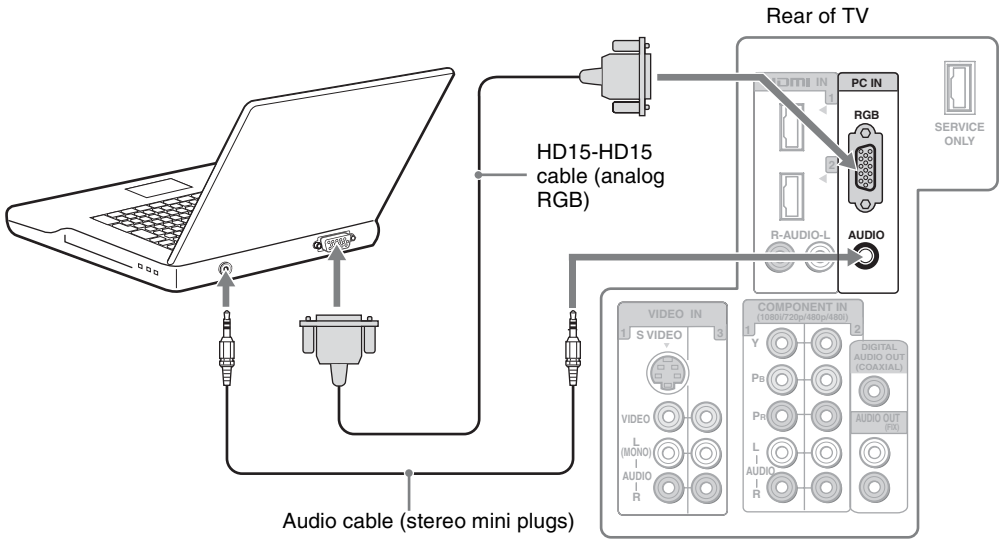
- If the equipment has a DVI and not a HDMI connector, use a HDMI to DVI cable or adapter to connect the DVI output to either HDMI IN 1 or HDMI IN 2 input, and connect the audio jacks to the AUDIO (L/R) jacks below the HDMI IN 2. (DVI connector is for video signals only, the Audio jacks provide support for the audio)

Shown with Component Connection



PC

Use the TV as a monitor for your PC.
Shown below with the HD15 to HD15 connection. This TV can also be connected to a PC with DVI or HDMI output. (Refer to the supplied Quick Setup Guide.)



- Connect the PC IN jack to the PC using the HD15-HD15 cable with ferrite core (analog RGB) and audio cable (page 15).

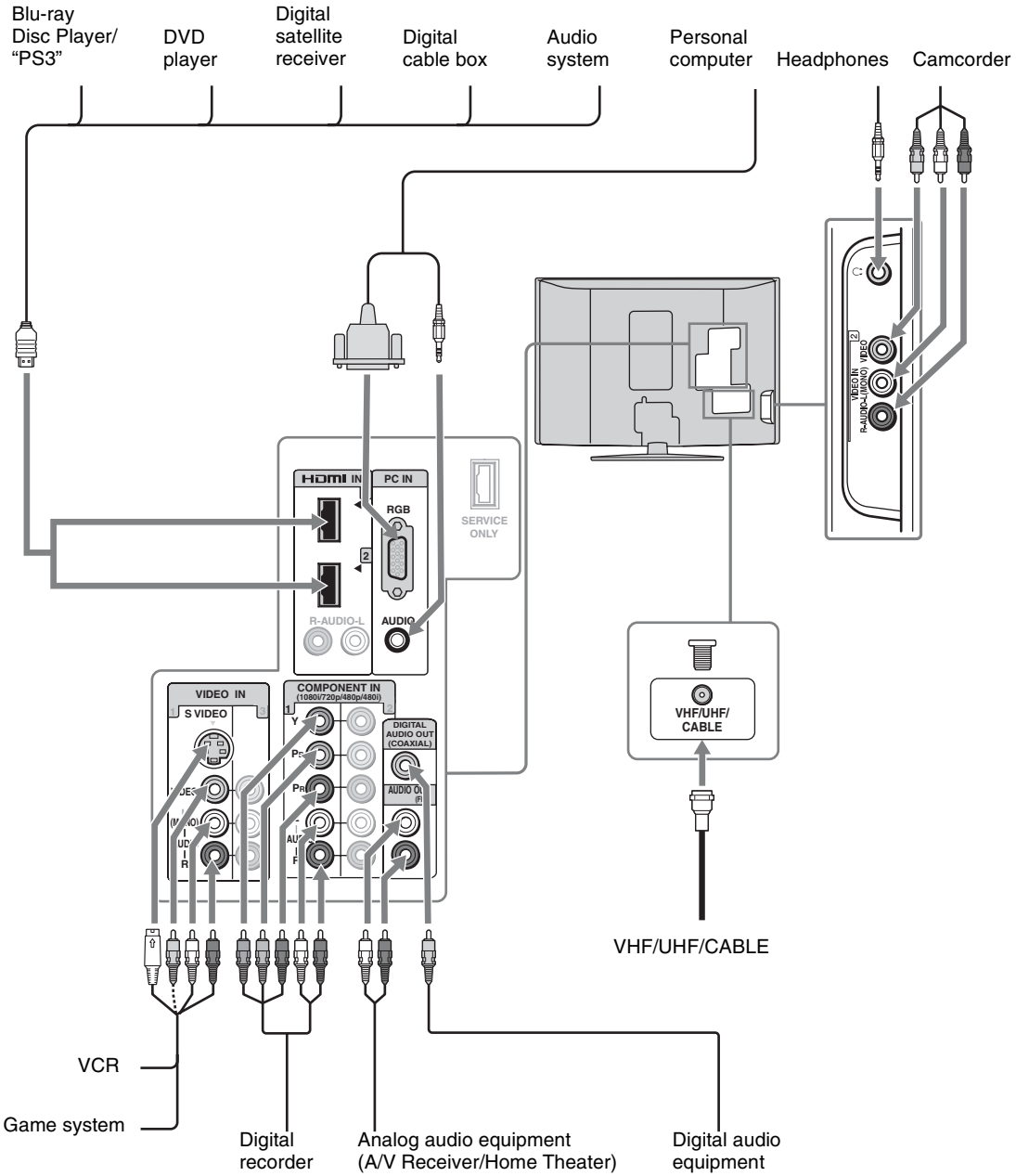
PC Input Signal Reference Chart

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

Signals	Resolution			Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
	Horizontal (Pixel)	×	Vertical (Line)			
VGA	**640**	×	**480**	**31.5**	**60**	**VGA**
	640	×	480	37.9	73	VESA
	640	×	480	37.5	75	VESA
SVGA	800	×	600	35.2	56	VESA
	800	×	**600**	**37.9**	**60**	**VESA Guidelines**
	800	×	600	46.9	75	VESA
XGA	**1024**	×	**768**	**48.4**	**60**	**VESA Guidelines**
	1024	×	768	56.5	70	VESA

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC VGA input does not support interlaced signals.
- For the best picture quality, it is recommended to use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency from a personal computer. In plug and play, signals with a 60 Hz vertical frequency will be detected automatically. (PC reboot may be necessary.)

Other Equipment



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

4. Setting Up the Channel List - Initial Setup

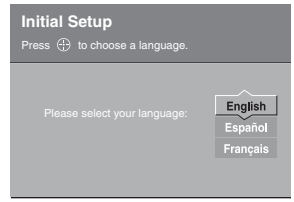
After you finish connecting your TV, you need to run **Initial Setup**, which automatically sets up available channels. The Initial Setup screen appears when you turn on your TV for the first time. If you do not want to set up the channels at this time, you can do it later by selecting the **Auto Program** option in the **Channel** menu (see page 30).

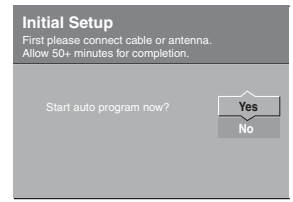
1 Press POWER to turn on the TV.

The **Initial Setup** screen appears.

2 Press ▲/▼ to highlight the desired language, then press ⊕.

3 The message ***"First please connect cable or antenna"*** and ***"Start auto program now?"*** appears, make sure you already connected Cable or Antenna, then select **Yes** to start **Auto Program.** If you want to start **Auto Program** later press **No**.

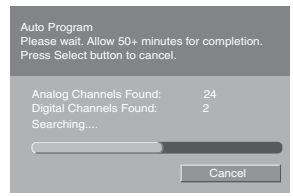


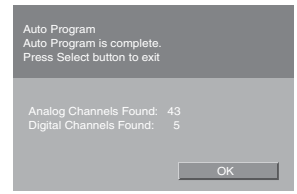


•If you have **Cable** and **Antenna** available, please connect **Cable** first.

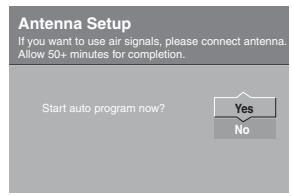
4 The scanning of channels will start. If you want to stop and run **Auto Program** later press **Cancel**.

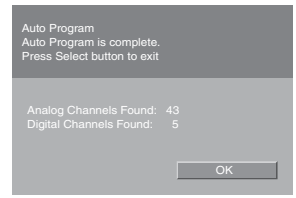
5 When **Auto Program** is complete, press ⊕ to continue





6 If the **Initial Setup** programming found **Cable channels**, you will be able to scan **Antenna channels** as well. Connect the **Antenna**, you can use an A-B RF switch (not supplied) and change the switch to **Antenna**, then start **Auto Program** to search antenna channels. If the **Initial Setup** programming found **Antenna channels**, the **Auto Program** process will finish. If you want to scan **Cable channels**, you can do it later using the **Channel** menu (see page 30).





To run Auto Program again at a later time

❑ Use the **Auto Program** feature as described on page 30.

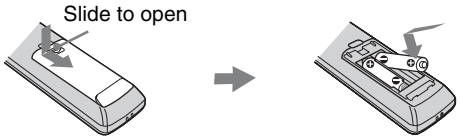
To Display the Picture in your Preferred Aspect Ratio

❑ Select the proper **Wide Mode** as described on pages 23 and 29.

• You may want to set up convenient features such as **Favorites** (see page 26), **Show/Hide Channels** (see page 30), **Label Channels** (see page 30) when **Auto Program** is completed.

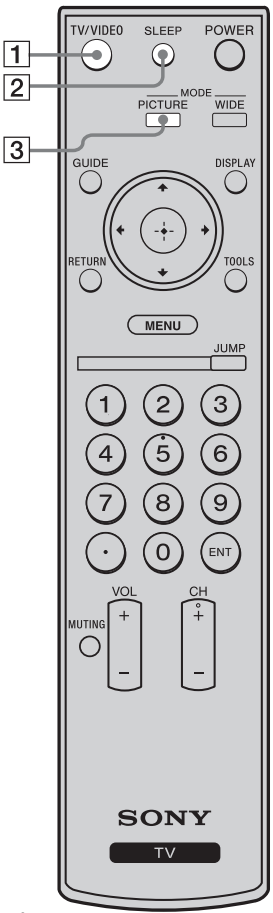
Remote Control and TV Controls/Indicators

Inserting Batteries into the Remote control



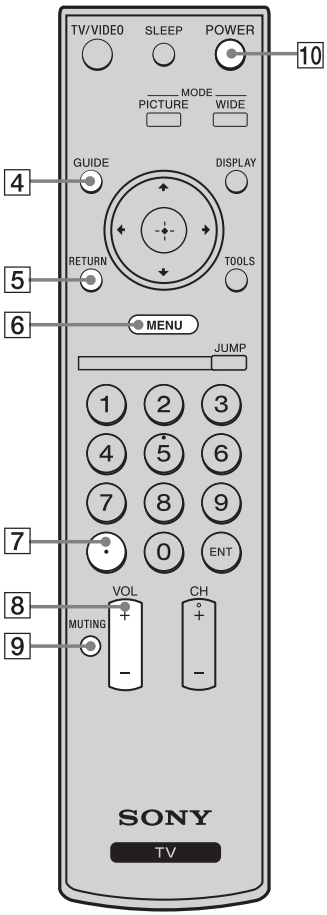
Insert two size AA batteries (supplied) by matching ⊕ and ⊖ on the batteries to the diagram inside the battery compartment of the remote control.

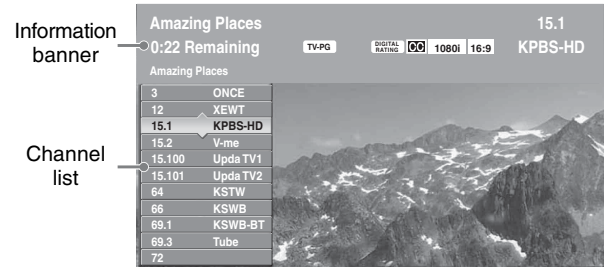
Remote Control

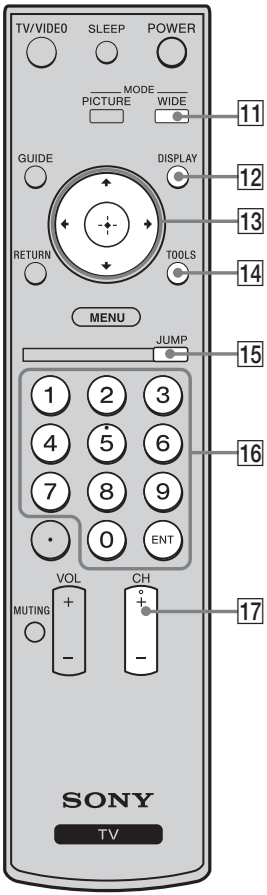


The 5 and CH + buttons have a tactile dot. Use them as a reference when operating the TV.

Button	Description
1 **TV/VIDEO**	Press to display the **External Inputs** list, go through the list and select the desired input. • See page 26 on **Applications** menu the External Inputs.
2 **SLEEP**	Press repeatedly until the TV displays the time in minutes (Off, 15, 30, 60 or 120) that you want the TV to remain on before shutting off. To cancel **Sleep**, press SLEEP repeatedly until **Sleep Off** appears.
3 **PICTURE**	Press repeatedly to cycle through the available picture modes: **Vivid, Standard, Cinema.** The picture modes can be also accessed in the **Picture** menu (see page 28).



Button	Description
4 **GUIDE** (For all channels including Digital/Analog channels)	Press to display the Guide when you are watching digital channels (if it is available from the station). **Using the Guide** The Guide allows you to select the channels from a channel list; also provides information about the current program being shown on each channel.  • Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.
5 **RETURN**	Press to go back to the previous screen when displaying **MENU** items and settings.
6 **MENU**	Press to display the **MENU** with TV functions and settings. See **Using the TV Menus** on page 25.
7 ·	Use with 0-9 and ENT buttons to select digital channels. For example, to enter 2.1, press 2, ·, 1 and ENT.
8 **VOL +/–**	Press to adjust the volume.
9 **MUTING**	Press to mute the sound. Press again or press **VOL +** to restore the sound.
10 **POWER**	Press to turn On and Off the TV.



Button	Description
11 **WIDE**	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** menu (see page 29).
12 **DISPLAY**	Press once to display the current channel number, channel label, remaining time, **Wide Mode** and current time. The on screen display (OSD) will turn off after a few seconds.
13 ↑/↓/←/→/⊕	Press ↑/↓/←/→ to move the on-screen cursor. Press ⊕ to select/confirm an item. You can also use this button to see your **Favorites** channels list.
14 **TOOLS**	This function is only available when PC input is active. Press TOOLS to view a channel at the same time as a Picture in Picture screen. (see page 27 for details)
15 **JUMP**	Press to alternate between two channels. The TV will alternate between the current channel and the last channel tuned to with the buttons 0 - 9 and · on the remote control.
16 **0 - 9/ENT**	Press 0 - 9 to select a channel; the channel changes after few seconds. Press ENT to change channels immediately.
17 **CH +/–**	Press to scan through channels.

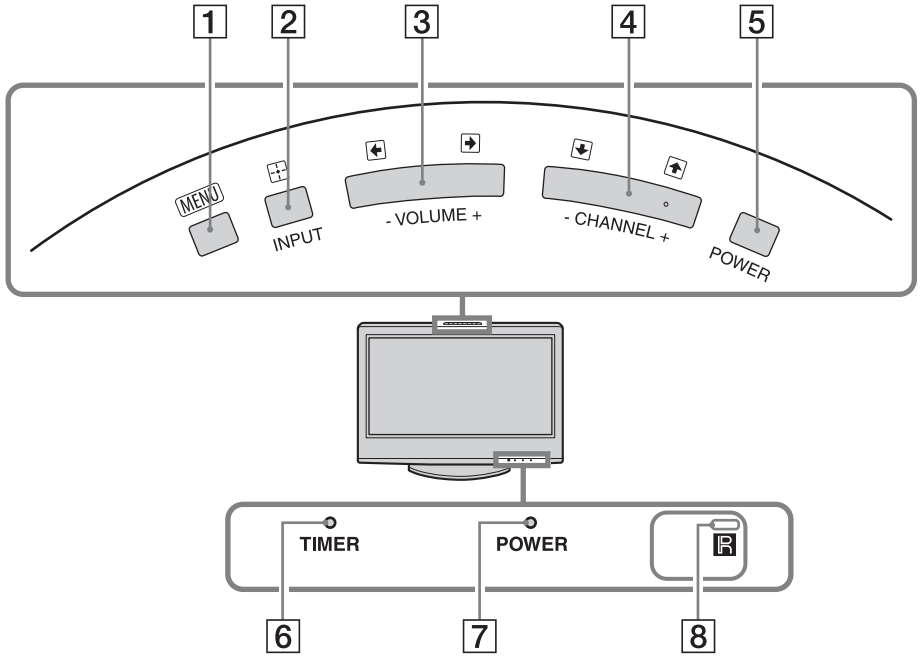
Changing the Wide Screen Mode (see page 29 for details)

Wide Mode 4:3 480i/480p Standard definition source	**Wide Mode** 16:9 1080i/720p High definition source
Wide Zoom	**Wide Zoom**
Normal	**Normal** Not Applicable
Full	**Full**
Zoom	**Zoom**

• When the TV receives a 720p or 1080i signal, **Normal** cannot be selected.

• The CHANNEL + button has a tactile dot. Use it as a reference when operating the TV.

Indicators



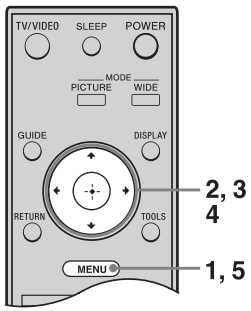
Item		Description
1	**MENU**	Press to display the **MENU** with TV functions and settings (see **Using the TV Menus** on page 25).
2	**INPUT**	Press to display the **External Inputs** list, go through the list and select your desired input. In the **MENU** screen, this button serves as confirming the selection or setting.
3	**– VOLUME +**	Press to adjust the volume. In the **MENU** screen, these buttons serve as left/right buttons.
4	**– CHANNEL +**	Press to scan through channels. In the **MENU** screen, these buttons serve as up/down buttons.
5	**POWER**	Press to turn on and off the TV.
6	**TIMER LED**	Lights up in amber 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 36. If the LED blinks in red continuously, this may indicate the TV needs servicing (see contacting Sony information on the back cover).
7	**POWER LED**	Lights up in green when the TV is turned on.
8	**(IR) Infrared Receiver/**	Receives IR signals from the remote control.
	Light Sensor	Senses room light level and adjusts the screen brightness accordingly (see page 37 for details). Do not put anything near the sensor, as its function may be affected.

- Make sure that the TV is turned off before unplugging the power cord. Unplugging the power cord while the TV is turned on may cause the Power LED to remain lit for up to 20 seconds or may cause the TV to malfunction.

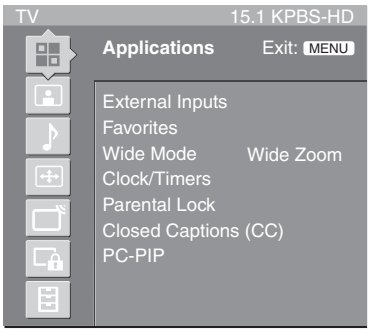
Using the TV Menus

MENU provides one button access for controlling your TV. It enables you to perform a variety of tasks intuitively with a control panel on the screen rather than a variety of remote control button presses.

Navigating through TV Menus



1. Press MENU on the remote control to display on screen the Menu options.
2. To highlight a Menu option press ←, then press ↑/↓ to go through the menus.
3. To select an option press ⊕ or →.
4. Press ↑/↓ to select or adjust your desired option, then press ⊕.
5. To exit press MENU.



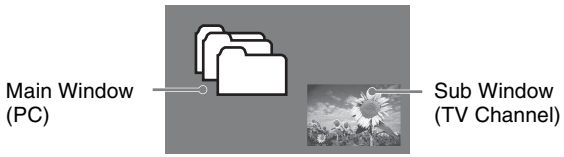
Menu Descriptions

Applications	The **Applications menu** lets you select: **External Inputs, Favorites,** and have shortcuts to **Wide Mode, Clock/Timers, Parental Lock** and **Closed Captions (CC);** also you can select **PC-PIP** function from this menu.	**Channel**	The **Channel menu** is used to provide maintenance to the channel options; select from menu: **Favorite Channels, Cable, Add Channels, Auto Program, Show/Hide Channels, Label Channels** or **Diagnostics**.
Picture	The **Picture Menu** is used to fine tune the image quality, allows you to customize several parameters for optimal viewing, select from menu: **Picture Mode**, **Reset**, **Backlight**, **Picture**, **Brightness**, **Color**, **Hue**, **Color Temp**. (Color Temperature), **Noise Reduction** or **Sharpness**.	**Parental Lock**	The **Parental Lock** feature allows you to set up the TV to block programs according to their content and rating levels; use 0-9 on the remote control to enter a four-digit password. The first time you create a password, confirm the password by entering it again.
Sound	The **Sound Menu** allows you to fine tune and change audio; select from menu: **Treble**, **Bass**, **Balance**, **Speaker**, **MTS**, **Alternate Audio** or **Reset**.	**Setup**	The **Setup Menu** provides you additional features like: **Closed Captions (CC), Info Banner, Label Video Inputs, Clock/Timers, Language** or **Light Sensor.**
Screen	The **Screen** menu allows you to change the proportions of the screen, select: **Wide Mode**, **4:3 Default**, **Auto Wide**, **Vertical Center**, **Vertical Size** or **Phase**.		

Using the Applications Menu

Option	Description
External inputs	This feature lets you select the external inputs connected to your TV. **1** Press ▲/▼ to choose a external input from the list of 9 inputs. **2** To select press ⊕. **3** To exit from External inputs list, press MENU. ✍ • To change external inputs again, repeat steps 1-2. • To go back to channels, press **CH +/-** to go through the channels; repeat steps 1-2 and select TV; or press ⊕ to select a channel from your **Favorites** list. • You can also select directly the external inputs list by pressing TV/VIDEO without having to navigate through the Menu.
Favorites	This feature lets you create and choose a list of up to 8 favorite channels. **1** Press ▲/▼ to select the option **Add to Favorites**, to add the current channel to your **Favorites** list, and press ⊕. **2** To exit press MENU ✍ • You can also use ⊕ button of the remote control to see your Favorites channel list.
Wide Mode	This option is a direct shortcut to the **Screen** menu for adjust the picture size in the **Wide Mode** option (see page 29).
Clock/Timers	This option is a shortcut to adjust **Clock/Timers** on **Setup** menu (see page 36).
Parental Lock	This option is a shortcut to the **Parental Lock** menu, it allows you to enter a password to block channels (see page 31).
Closed Captions (CC)	This option is a shortcut to **Closed Captions (CC)** screen on **Setup** menu (see page 35).

Option	Description
PC-PIP	This **PIP** (Picture In Picture) feature provides PC input signal and TV channels; allows you to view two pictures simultaneously. When you select this feature from **Applications** menu, the **PC-PIP** will appear with a Sub Window to see TV channels at the same time.



- To turn Off or On the Sub Window on the screen press TOOLS from the remote control, only when you select PC input.
- You can also select **PC** input from the **External Inputs** list. Press MENU, select **External Inputs**, the External inputs list will appear, then select **PC** input.

To change channels in the Sub Window

Press CH +/– to change the channels or enter the channel number using the 0-9 numeric buttons.

To Exit from PC-PIP (PC input)

1. Press MENU and select **External Inputs** on **Applications** menu.
2. From **External Inputs** list, select **TV** input to return to TV Channels.

- To exit from PC-PIP, you can also select from **Applications** menu, the **Favorites** channels list and select the channel of your preference; or just press + to view your **Favorites** channels list.
- When the PC input signal is selected with the Sub Window active, you can just see TV Channels, other external inputs are not available for this view (like VCR/DVD).
- **Closed Captions (CC)** is not available in the Sub Window.
- Parental Lock feature will work in the Sub Window, a padlock will appear on the blocked channels.

Using the Picture Menu

Option	Description
Picture Mode *Customized picture viewing*	Select a mode: **Vivid** (for enhanced picture contrast and sharpness), **Standard** (for standard picture settings, is recommended for home entertainment); or **Cinema** (for viewing film-based content. Most suitable for viewing in a theater-like environment).
Reset	Resets the current **Picture Mode** setting to factory default values.
Backlight	Press ←/→ to brighten or darken the backlight, then press ⊕ to set.
Picture	Press ←/→ to increase or decrease picture contrast, then press ⊕ to set.
Brightness	Press ←/→ to brighten or darken the picture, then press ⊕ to set.
Color	Press ←/→ to increase or decrease color intensity, then press ⊕ to set.
Hue	Press ←/→ to increase or decrease the green tones, then press ⊕ to set.
Color Temp. (Color Temperature)	Select an option: **Cool** (to give the white colors a bluish tint), **Neutral** (to give the white colors a neutral tint) or **Warm 1, 2** (to give the white colors a reddish tint).
Noise Reduction	Sharpens picture definition to give every object a sharp, clean edge. Select from **Off, Low, Medium** or **High.**
Sharpness	Press ←/→ to sharpen or soften the picture, then press ⊕ to set.

Using the Sound Menu

Option		Description
Treble		Press ←/→ to increase or decrease higher-pitched sounds, then press ⊕ to set.
Bass		Press ←/→ to increase or decrease lower-pitched sounds, then press ⊕ to set.
Balance		Press ←/→ to emphasize left or right speaker balance, then press ⊕ to set.
Speaker		Select to turn **On** or **Off** the internal speakers.
MTS	**Mono**	Select for mono reception. Use to reduce noise during weak stereo broadcasts.
	Stereo	Select for stereo reception when viewing a program broadcast in stereo.
	Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. If no **SAP** signal is present, the TV remains in **Stereo** mode.
Alternate Audio (Audio selection for current program)		This Audio feature for current program lets you select from 8 options of alternate audio (if it is available). You can select from **English**, **Español** (Spanish), **Français** (French) or **Audio 4, 5, 6, 7, 8** audio available options. ✍ • **Alternate Audio** is disabled for analog signals and for digital signals that do not have altenate audio streams.
Reset		Resets the current **Sound** settings to factory default values.

Using the Screen Menu

Option	Description	
Wide Mode	These options allow you to change the proportion of the screen.	
	Wide Zoom	Select to enlarge the picture uniformly.
	Normal	Select to display 4:3 pictures in original size when the original source is 4:3. ✍ • **Normal** is not available when you are watching 1080i or 720p in High Definition source.
	Full	Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (standard definition source). When the original source is 16:9 (High definition source), select this mode to display 16:9 picture in original size.
	Zoom	Select to enlarge the original picture without distorting the aspect ratio. ✍ • If you press WIDE of the remote control you can also select these modes directly.
4:3 Default	Select the default Screen Mode to use for 4:3 sources.	
	Wide Zoom	Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible, with minimal distortion.
	Normal	Select to display the 4:3 picture in its original size.
	Full	Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (standard definition source).
	Zoom	Select to enlarge the original picture without distorting the aspect ratio.
	Off	To turn **Off** automatic size for 4:3.
Auto Wide	**On**	Select to have the screen automatically change to the screen mode based upon program's content. If frequent screen changes are disturbing to you, select **Off**.
	Off	Select to turn off the Auto Wide option. Choose a screen mode from the **Wide Mode** option.
Vertical Center	Allows you to move the position of the picture up and down.	
Vertical Size	Allows you to adjust the vertical size of the picture.	
Phase	Adjust to fine tune overall sharpness. ✍ • **Phase** is disabled when the TV is receiving a different video input	

Using the Channel Menu

Option	Description
Favorite Channels	Lets you set up a list of up to 8 of your favorite channels. **1** Press ▲/▼ to select the option **Add to Favorites** to add the current channel to your **Favorites** list and press ⊕. **2** To exit press MENU. To select a favorite channel from the list, press ▲/▼ to go through the list and ⊕ to select the channel. ✍ • To access quickly to **Favorites** channel list, press ⊕ when there is no menu on the screen.
Cable	**On:** Select if you are receiving cable channels via Cable TV provider. **Off:** Select if you are using an antenna.
Add Channels	Select to add channels without replacing the original channel list. This option is useful for antenna installations.
Auto Program	Automatically sets up the channel list on the TV for all receivable channels (Digital and Analogs). ✍ • Before start **Auto Program**, be sure to change to **On** or **Off** on **Cable** option in the **Channel** menu. When it is **On**, the TV will search **Cable channels**; and when it is **Off**, the TV will search **air signals** with an **Antenna** connection. • If you are using an A-B RF switch (not supplied) to switch between **Cable** or **Antenna** connection, be sure to select the correct **Cable** option to **Cable On** or **Cable Off** in the **Channel** Menu. **1** Select **Auto Program**. **2** Select **OK** to start **Auto Program**. When **Auto Program** is done, select **OK**.
Show/Hide Channels	Allows you to show or hide channels that appear when you use the **CH +/-** button. **1** Press ▲/▼ to scroll through the channels until you find the channel you want to show or hide. **2** Press ⊕ to determine if the channel will be shown or hidden. To show or hide more channels, repeat steps 1-2.
Label Channels	Allows you to assign labels to channel numbers. **1** Press ▲/▼ to scroll through the channel numbers. Then press ⊕ to select the channel number that you want to assign a label. **2** Press ◄/►/▲/▼ to move through the label characters (A-Z, 0-9) and press ⊕ to select it. To move to the next character press ◄/►/▲/▼. Repeat to add up to 7 characters to the label. Then select Enter to set it. To assign labels to more channels, repeat steps 1-2. ✍ • To delete a character press ⌫. • To have a space between characters press ␣. • To exit press RETURN.
Diagnostics	Allows to confirm the current channel performance indicator.

Using the Parental Lock

The Parental Lock feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking. Use 0-9 on the remote control to enter a four digit password. The first time you create a password, confirm the password by entering it again.

To View Blocked Programs

Press ENT when tuned to a blocked program, then enter the password. To reactive the **Parental Lock** settings, turn off and on the TV.

Option	*Description*	
Rating	**Off**	Turn **Parental Lock Off**. No programs are blocked from viewing based on their rating.
	Child	Maximum ratings permitted are: **U.S**: TV-Y, TV-G, G **Canada**: C, TV-Y
	Youth	Maximum ratings permited are: **U.S**: TV-PG, PG **Canada**: C8+, PG, 8 ans+, TV-PG
	Young Adult	Maximum ratings permitted are: **U.S**: TV-14, PG-13 **Canada**: 14+, 13 ans+, TV-14
	Custom	Select to set ratings manually: **U.S**: See page 33 for details. **Canada**: See page 34 for details.
	✍ • If you are not familiar with the **Parental Guideline** rating system, you should select **Child**, **Youth** or **Young Adult** to help simplify the rating selection. To set more specific ratings, select **Custom**.	
Digital Rating *(Available only in U.S.A. where advanced ratings exist)*	**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. To cancel just select **Cancel**.
Unrated *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.
	✍ • 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.	

Option	Description
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 block a Channel** Press ↑/↓ to go through the channels and press ⊕ to **Block** or **Allow** channels. **To View a Blocked Channel** Press ENT when tuned to a blocked program, then enter the password. To reactive the **Parental Lock** settings, turn off and on the TV.
External Input Block	Allows you to block individual video inputs. Press ↑/↓ to scroll through the video inputs and press ⊕ to **Block** or **Allow**.
Change Password	Select to change your password. Use 0-9 buttons to select a four digit password; to confirm password enter it again. ✍ • You need your password for any future access into the Parental lock settings. If you lose your password, see **Lost Password** on page 40.
Select Country	**U.S.A** Select to use U.S.A. ratings. **Canada** Select to use Canadian ratings.

Custom Rating System Chart

US Models: Selecting Custom Parental Lock Rating Options

To select custom rating options for the U.S., select **U.S.A.** in the **Select Country** setting (see page 32).

Option	*Description*	
Movie Rating	**G**	All children and general audience.
	PG	Parental guidance suggested.
	PG-13	Parental guidance for children under 13.
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17 and X	No one 17 or under allowed.
TV Rating *Block programs by their rating, content or both*	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.	

Canadian Models: Selecting Custom Parental Lock Rating Options

To select custom rating options for Canada, select **Canada** in the **Select Country** setting (see page 32).

Option	*Description*	
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 on page 33.	

Using the Setup Menu

Option	Description		
Closed Captions (CC)	Allows you to select from several closed captions modes (for programs that are broadcast with closed captioning). Select: **Off** (to turn off **Closed Captions**), **On** (to turn on **Closed Captions**), or **Program** (to program **Closed Captions**).		
	Programming Closed Captions If you select the **Program** option under **Closed Captions**, you can change the following settings:		
	Basic	Allows you to select basic closed caption options (EIA-608).	
		CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program (should be set to **CC1** for most programs).
		Text1, Text2, Text3, Text4	Displays network/station information presented using either half of the whole screen (if available).
	Digital CC	Allows you to set digital closed captioning to **Basic** (digital EIA-608) or **Advanced** (digital (EIA-708).	
	Advanced	Allows you to select advanced digital (EIA-708) closed caption options. Select from the available options.	
	Advanced settings	Allows you to make additional settings for digital (EIA-708) closed captions options. Select from **As Broadcast** or you can customize. If you want to customize the following settings, select an option with ⊕ and return with RETURN button.	
		Character Style	Select from 7 available styles.
		Character Color	35 available colors.
		Character Size	Small, Standard, Large.
		Edge color	35 available colors.
		Background Color	35 available colors.
		Window Color	35 available colors.
		Character Opacity	Solid, Translucent, Transparent, Flashing.
		Character Align	Left, Right, Center.
		Edge Type	None, Raised, Depressed, Uniform, Left Shadow, Right Shadow.
		Background Opacity	Solid, Translucent, Transparent, Flashing.
		Window Opacity	Solid, Translucent, Transparent, Flashing
Info Banner	Set **On** or **Off**. When **On**: displays the program name and the remaining time (if the broadcaster offers this service). Displays for a few seconds when the channel is changed. If you don't want to display the **Info Banner** select **Off**.		

Option		Description
Label Video Inputs		Allows you to identify A/V equipment you connected to the TV, such as a VCR, DVD, etc. For example, if you have a DVD player connected to the VIDEO 1 input, you can select the label DVD for the VIDEO 1 input. Then when you press TV/VIDEO to change inputs, the Video Label you assigned to that input appears on screen. **1** Press ↑/↓ to highlight the input (from 1 to 8) to which you want to assign a label, then press ⊕ to select it. **2** Press ↑/↓ to highlight one of the displayed labels, then press ⊕ to select it. You can select from the following labels for each input: DVD, VCR, Blu-Ray, Cable Box, Satellite, DVR, Game, Camcorder, Skip (your TV skips the input you selected when you press the TV/VIDEO button on the remote control). ✍ • The skip label is useful for inputs to which no equipment is connected.
Clock/Timers	**Sleep**	Set the time in minutes (Off, 15, 30, 60 or 120 minutes) that you want the TV to remain on before shutting off automatically.
	Timer	You can use the Timer to tune to a specific channel at a scheduled time. Select **Off** (Select to turn off the timer; your previous settings are saved); **On** (to turn on the timer; your previous settings are saved); or **Program** (to set the timer by **Time**, **Days**, **Duration**, **Channel** and **Volume Setup** that you want to tune to a specific channel at scheduled time). If you select **Program**, press ↑/↓ (change the values) or ←/→ (move through the options) to set the hour, minutes, AM/PM, days, duration and volume setup. To set a channel press 0-9 (numeric values) and ⊕ (if the channel is digital) on the remote control. To replace a channel press → on the remote control, then press ← to go back to the channel selection and enter a new channel number. You can program External inputs as well instead of a channel. Press TV/VIDEO on the remote control to go through the external inputs and select the desired input that you want to program. ✍ • **Timer** feature will be not available until you set the **Current time**.
	Current Time	Select to set the current time (day, hour, minutes and AM/PM). **1** Press ⊕ to select **Current Time**. **2** Press ↑/↓/←/→ to set day, hour, minutes and AM/PM. **3** Press MENU to exit.
Language		Select to display all on-screen settings in your language of choice: **English, Español** (Spanish), **Français** (French).

Option	Description
Light Sensor	Select **On** to enable the automatic picture (screen) brightness control. The light sensor measures the room brightness which allows the TV to automatically adjust the backlight brightness based on the picture settings and the ambient room light conditions. ✍ • Be sure not to put anything around the sensor, as its function may be affected. • In low light the range of the backlight control is reduced when **Light Sensor** is set to **On**.

Troubleshooting

If you have additional questions, service needs, or required 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.	
No picture.	❑ Confirm your external inputs list and make sure you select TV (Cable/Antenna channels). See page 26 for more details. ❑ Perform **Auto program** to add receivable channels that are not presently in the TV's memory (page 30).
Cannot receive any channels.	❑ Make sure the power cord is connected securely. ❑ Turn on the power of the TV. ❑ Check antenna/cable connections. ❑ Perform **Auto Program** to add receivable channels that are not presently in the TV's memory (page 30).
TV is locked to one channel.	❑ Perform **Auto Program** to add receivable channels that are not presently in the TV's memory (page 30).
Cannot receive or select channels.	❑ To receive or select cable channels, make sure that **Cable** in **Channel** settings is set to **On**. To receive or select UHF channels over an antenna, make sure **Cable** is set to **Off**. Perform **Auto Program** to add receivable channels that are not presently in the TV's memory (page 30).
The TV turns off automatically.	❑ Check if **Sleep** is activated, or confirm the **Duration** setting of **Timer**. (page 36). ❑ If there is no signal, the TV will turn off automatically.
No picture from some video sources.	❑ Check the connection between the optional video equipment and the TV. ❑ Press TV/VIDEO on the remote control (page 21). ❑ Press MENU on the remote control. Select your desired input from the External Inputs list.
Poor picture.	
Double images or ghosts.	❑ Check antenna/cable connections. ❑ Check the antenna location and direction.
Only snow and noise appear on the screen.	❑ Check if the antenna is broken or bent. ❑ Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.)
Dotted lines or stripes.	❑ Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers. ❑ If using 300 ohm twin lead, move the excess lead away from the TV or try using 75 ohm coaxial cable instead.
No color/Dark picture/Color is not correct/The picture is too bright.	❑ Press PICTURE to select the desired picture mode (page 21). ❑ Adjust the **Picture Mode** options in the **Picture** menu (page 28).

Condition	Explanation/Solution
Noisy picture.	❑ Make sure that the antenna is connected using a 75-ohm coaxial cable (not supplied). ❑ Keep the antenna cable away from other connecting cords. ❑ To avoid TV interference, make sure to use an undamaged antenna cable.
No sound/Noisy sound	
Good picture, no sound.	❑ Check the volume control. ❑ Press MUTING or **VOL +** so that "Muting" disappears from the screen (page 22). ❑ Disconnect your headphones. ❑ Set **Speaker** to **On** in the **Sound** menu (page 28). If it is set to **Off**, sound is not output from the TV's speakers regardless of the TV's volume control.
Audio noise.	❑ Make sure that the antenna is connected using a 75-ohm coaxial cable (not supplied). ❑ Keep the antenna cable away from other connecting cords. ❑ To avoid TV interference, make sure to use an undamaged antenna cable.
No sound	❑ If you connected an audio device, it is necessary to have a video connection.
PC Input	
No Picture/No Signal.	❑ Confirm the PC is correctly connected to the TV in the **PC IN** (not supplied HD15 cable). ❑ Ensure the output signal from the PC is one of the formats listed on page 18. ❑ Turn the PC **Off**. Confirm the PC connection and restart the PC. Plug and play will auto-detect the TV and correctly set up PC timing.
Poor picture.	❑ Adjust the resolution (see page 18). ❑ Adjust Phase (see page 29).
General	
Wide Mode changes automatically.	❑ The current **Wide Mode** setting is automatically replaced with the **4:3 Default** setting when you change the channel or video input, if **4:3 Default** in the **Screen** menu is set to other than **Off**. If you want to lock in **Wide Mode** selected with WIDE on the remote control, set **4:3 Default** to **Off** in the **Screen** menu (page 29). ❑ Turn off the **Auto Wide** option in the **Screen** menu (page 29).
Suddenly the picture gets smaller.	❑ The picture gets smaller during the commercials, this is due to the method the provider broadcasts their contents. When HD content channels switch to SD definition content (commercials), the picture may be small with a black border.
"Black box" on screen.	❑ You have selected a text option and no text is available. (See page 35.) To turn off this feature, set the **Closed Captions** option to **Off**. If you were trying to select closed captioning, select **CC1** instead of **Text1-4**.
Black bands appear at the top and bottom of the screen.	❑ Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider). ❑ Programs in 4:3 aspect ratio will have bands on left and right sides of the screen, to select full size see page 29.
Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes.	❑ The compression used by certain digital broadcasts and DVDs may cause your TV's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV's large screen and ability to show very fine detail, and is normal for certain digitally recorded programs.

Condition	*Explanation/Solution*
Remote control does not operate.	❑ Check the polarity of the batteries or replace the batteries. ❑ Point the remote control at the remote control sensor 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.	❑ 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 30).
Lost password.	❑ Select the **Parental Lock** menu, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password (page 31).
How to reset the TV to factory settings.	❑ Turn on the TV. While holding down the ▲ button on the remote control, press the **POWER** button on the TV. Release the ▲ button. WARNING: The Reset will clear all of your customized settings including **Parental Lock** setting.

Specifications

Model	KDL-26M3000/ KDL-26ML130	KDL-32M3000/ KDL-32ML130	KDL-37M3000
System			
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)		
Channel coverage	Analog terrestrial: 2-69 / Digital terrestrial: 2-69 Analog Cable: 1-125 / Digital Cable: 1-135		
Panel system	LCD (Liquid Crystal Display) Panel		
Speaker output	10 W + 10 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	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 (100% modulation)/ Impedance: 47 kilohms		
HDMI IN 1/2	HDMI: Video: 480i, 480p, 720p, 1080i / Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24bits AUDIO: 500 mVrms (100% modulation)/ Impedance: 47 kilohms		
AUDIO OUT	500 mVrms (100% modulation)/ More than 500 mVrms (Fixed)		
PC IN	D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive See the PC Input Signal Reference Chart on page 18.		
PC AUDIO INPUT	Stereo mini jack, 500 mVrms, 47 kilohms		
Headphones	Stereo mini jack / Impedance: ≥ 16 ohms		
Power and others			
Power requirement	120 V AC, 60 Hz		
Power consumption			
in use	135 W	170 W	180 W
in standby	All models less than 1 W		
Screen size (inches measured diagonally)	26	31.5 (32 class)	37
Display resolution (horizontal × vertical)	1,366 dots × 768 lines		
Speaker/Full range (2)	146 × 35 mm 5 3/4 × 1 3/8 inches		
Dimensions (W × H × D)			
with stand (mm) (inches)	662 × 515 × 214 26 1/8 × 20 3/8 × 8 1/2	796 × 590 × 214 31 3/8 × 23 1/4 × 8 1/2	918 × 655 × 265 36 1/4 × 25 7/8 × 10 1/2
without stand (mm) (inches)	662 × 468 × 108 26 1/8 × 18 1/2 × 4 3/8	796 × 544 × 100 31 3/8 × 21 1/2 × 4	918 × 609 × 108 36 1/4 × 24 × 4 3/8
wall-mount hole pattern (mm)	200 × 100	200 × 200	300 × 200
Mass			
with stand	13 kg 29 lb.	16 kg 36 lb.	22 kg 49 lb.
without stand	11 kg 25 lb.	14 kg 31 lb.	18.5 kg 41 lb.
Supplied accessories	Remote control RM-YD021 (1) / Size AA batteries (2) / Support belt (1) / Securing screw (1) / Wood screw (1) / Cable holder (1 attached to the Table-Top Stand) / Operating Instructions (1) / Quick Setup Guide (1) / Warranty Card (1) / Online Registration Card (U.S.A. and Canada only) (1) / Wall-Mount Installation Instructions (1)		
Optional accessories	Headphones plug adapter / Connecting cables / Wall-Mount Bracket: SU-WL100 (KDL-26M3000 and KDL-26ML130), SU-WL500 (KDL-32M3000, KDL-32ML130, and KDL-37M3000) / 75-ohm coaxial cable (1) / HD15-HD15 cable (1)		

• Design and specifications are subject to change without notice.

Index

4:3 Default 29

A

AUDIO OUT jack, described 15
Auto Program 30
Auto Wide 29

B

Backlight 28
Balance 28
Bass 28
Brightness 28

C

Cable 30
Cable holder 11
Canadian Models 34
CH+/– button 23
Change Password 32
Channel Block 32
Clock/Timer 26
Closed Caption (CC) 26
Color 28
Color Temp. (Color Temperature) 28
COMPONENT IN jack (1080i/720p/480p/480i), described 15

D

Diagnostics 30
DIGITAL AUDIO OUT (Coaxial), described 15
Digital Rating 31
DISPLAY button 23

E

English Rating 34
ENT button 23
External Input Block 32
External inputs 26

F

Favorite Channels 30
Favorites 26
French Rating 34

G

GUIDE button 22

H

HDMI IN jack, described 14
Headphones jack, described 13
Hue 28

I

Infrared Receiver (IR) 24
INPUT 24
Installing the TV on a wall 12

J

JUMP button 23

L

Label Channels 30
Light Sensor
  Described 24

M

Menu
  Applications 26
  Channel 30
  Parental Lock 31
  Picture 28
  Screen 29
  Setup 35
  Sound 28
MENU button 22, 24
Movie Rating 33
MTS 28
MUTING button 22

N

Noise Reduction 28

P

Parental Lock 26, 31
PC IN 15
PC-PIP 27
Phase 29
Picture 28
PICTURE button 21
Picture Mode 28
POWER button 22, 24
POWER LED 24

R

Rating 31
Reset 28, 40
RETURN button 22

S

S VIDEO jack, described 14
Select Country 32
SERVICE ONLY 15
Setting up channels 20
Sharpness 28
Show/Hide Channels 30
SLEEP button 21
Speaker 28

T

TIMER LED 24
TOOLS button 23
Treble 28
Troubleshooting 38, 39, 40
Turning on/off the TV 24
TV Rating 33
TV/VIDEO button 21

U

U.S.A. Rating 34
Unrated 31
US Models 33

V

Vertical Center 29
Vertical Size 29
VHF/UHF input, described 15
VIDEO/AUDIO (L/R) jacks, described 13, 14
VOL+/– button 22, 24

W

WIDE button 23
Wide Mode 26, 29

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/

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