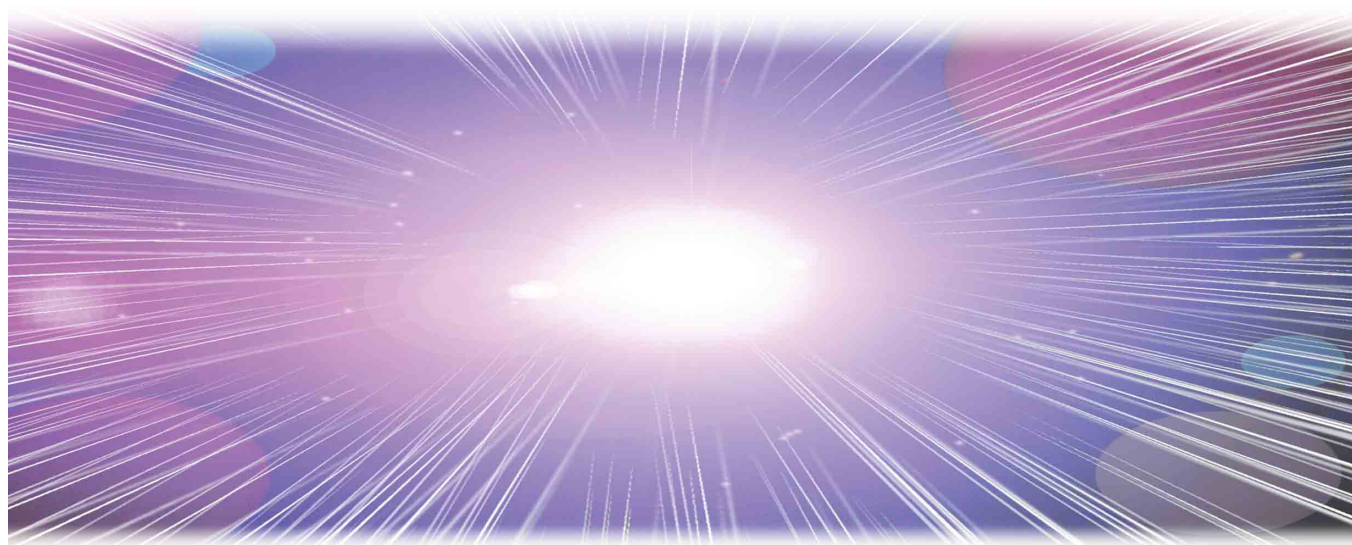


SONY®

2-583-350-11 (2)

WEGA



**Flat Panel Color TV
Operating Instructions**

**KDE-37XS955
KDE-42XS955
KDE-50XS955**



MEMORY STICK™



WEGA ENGINE

S-master
Digital Amplifier

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 product.

Model No. _____

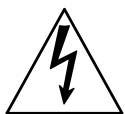
Serial No. _____

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (US residents only) or 1-877-899-SONY (7669) (Canadian residents only).

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus 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.

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.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note to CATV System Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

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 with 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 antennas.
- 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.

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.
- 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.
- For details concerning safety precautions, see "Important Safeguards" on page 2.

Important Notice

- When used at an altitude of greater than 1,900m or 6,248feet (air pressure less than 800hPa), this Plasma Display Panel may generate a low buzzing sound as a result of the difference between the interior and exterior air pressure of the panels. This is not considered a defect and is not covered under by the Limited Warranty.

Installing

- 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 5°C (41°F).
- 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

Bright, stationary images, such as TV station logos, displayed on your TV can become permanently imprinted onto the screen. These types of imprints are known as "Image Retention." Please take the following steps to reduce the risk of causing image retention:

View a variety of program sources or programming material. Changing the program material viewed reduces the possibility that a single image will become imprinted on the TV screen.

When using video games, computers, and similar products with your TV, or viewing a TV station whose logo always stays on the screen, keep the "Brightness" and "Picture" functions at low settings. (See page 92 for instructions on adjusting picture quality.)

This TV was designed primarily for viewing TV broadcasts in wide screen mode (16:9 aspect ratio). Therefore, when viewing conventional (4:3) aspect ratio TV programs, select "Wide Zoom" or "Full" in the Wide Screen Mode, or "4:3 Default" in the Screen menu (see pages 97-98).

IMAGE RETENTION IS NOT COVERED BY YOUR WARRANTY.

(Continued)

CAUTION

Use the following SONY appliance(s) only with the following WALL-MOUNT BRACKET. Use with other WALL-MOUNT BRACKET may cause instability and result in possible injury.

SONY APPLIANCE MODEL NO.

KDE-37XS955

KDE-42XS955

KDE-50XS955

SONY WALL-MOUNT BRACKET MODEL NO.

SU-PW3M

SONY FLOATING STAND MODEL NO.

SU-PF3L (for KDE-50XS955)

SU-PF3M (for KDE-37/42XS955)


To Customers

Sufficient expertise is required for installing the specified product. Be sure to subcontract the installation to Sony dealers or contractors and pay adequate attention to safety during the installation.

To Sony Dealers

For installation of SONY WALL-MOUNT BRACKET, or SONY FLOATING STAND, be sure to read and follow the instructions supplied with those optional products.

Trademark Information

TruSurround, SRS and the  symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

Licensed by BBE Sound, Inc. under USP4638258, 4482866. "BBE" and BBE symbol are trademarks of BBE Sound, Inc.

Steady Sound, Digital Reality Creation, CineMotion, Memory Stick, and Twin View are registered trademarks of Sony Corporation. BN Smoother is trademark of Sony Corporation.



Manufactured under license from Dolby Laboratories. Dolby and the 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.

CableCARD™ is a trademark of Cable Television Laboratories, Inc.

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming.

A security card provided by your cable operator is required to view encrypted digital programming.

Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

Important Safeguards

Before using your TV, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the unit or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the unit.

Use

Power Sources

This unit should be operated only from the type of power source indicated on the serial/model plate.

If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

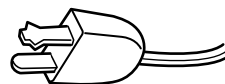


Grounding or Polarization

This unit is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the unit with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug.



If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

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 fire.

Contact your electrician to have the outlet changed.



Wiring

For your safety, unplug the AC power cord when wiring cables.

Moisture

Do not touch the AC power cord or the unit with a wet hand.

If you plug/unplug the AC power cord from the unit with a wet hand, it may cause electric shock.



Cleaning

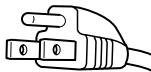
Clean the AC power plug regularly.

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



For the unit with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the unit off when it is not being used. When the unit is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



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



AC power cord

If you damage the AC power cord, it may result in fire or electric shock.

- ☐ Do not pinch, bend, or twist the cord excessively. The core lines may be bared and cut, and cause short-circuit, resulting in fire or electric shock.
- ☐ Do not convert or damage the AC power cord or display interface cable.
- ☐ Do not put anything heavy on the AC power cord. Do not pull the AC power cord.
- ☐ Keep the AC power cord away from heat sources.
- ☐ Be sure to grasp the plug when disconnecting the AC power cord.

If the AC power cord is damaged, stop using it and ask your dealer or Sony service center to exchange it.

Batteries

Do not dispose of batteries in fire.

Do not short circuit, disassemble or overheat the batteries.

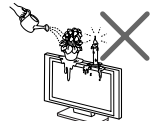
Object and Liquid Entry

Never push objects of any kind into the unit through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.



Do not place any objects on the unit.

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



Ventilation holes

Do not insert anything in the ventilation holes. If metal or something flammable enters, it may result in fire or electric shock.



Cleaning

Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.

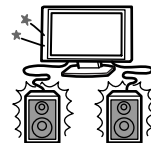
Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzene for cleaning.



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.

Attachments

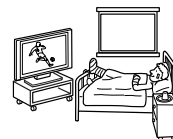
Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Medical institution

Do not place this unit in a place where medical equipment is in use.

It may cause malfunction of medical instruments.



Moisture and flammable objects

- ☐ Do not use power-line operated 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 fire or electric shock.



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



Accessories

Do not place the unit on an unstable cart, stand, table or shelf. The unit may fall, causing serious injury to a child or an adult and serious damage to the unit. Use only a cart or stand recommended by Sony for the specific model of TV. No part of the TV unit should overhang any edge of the TV cart or stand; any overhanging edge is a safety hazard. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



(Continued)

Dispose of used batteries

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

Damage requiring service

If the surface of the TV cracks, do not touch it until you unplug the AC power cord.

Otherwise electric shock may result.

Broken pieces

Do not throw anything at the unit.

The screen glass may break by the impact and cause serious injury.

Cable wiring

Take care not to catch your feet on the cables. It may damage the unit.

Heat

Do not touch the surface of the TV.

It remains hot, even for some time after the TV is turned off.

Volume adjustment

Adjust the volume so as not to trouble your neighbors. Sound carries very easily at night time. 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.

Installation and moving

Carry the TV in the specified manner

Carrying the TV requires at least two people.

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

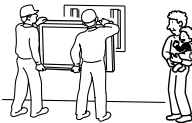
- ☐ Carry the TV with the specified number of persons.
- ☐ Carry the TV holding the upper and bottom frames of the TV as illustrated. Do not carry by the clear plastic front panel.
- ☐ Hold the TV securely when carrying it.
- ☐ As the glass surface of the TV has a special coating, be careful to avoid touching the glass surface as far as possible.
- ☐ When transporting, do not subject the unit to shocks or vibration, or excessive force.



Installation

When installing or removing the TV on the wall, be sure to use qualified contractors.

Wall mount installation requires the use of a wall-mount bracket. If the TV is installed or removed from the wall by a person other than a qualified contractor, the unit may fall and cause serious injury if the unit is not installed securely.



Placement for viewing

It is recommended to watch the TV at a distance of 3-7 times that of the screen, and in moderate brightness. Watching the TV for too long or in a dark room will cause eye fatigue.

Optional accessories

Observe the following when installing the TV using a stand or 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 your stand or wall-mount bracket when installing the unit.
- ☐ Be sure to attach the brackets supplied with your stand or wall-mount bracket.

Protruding location

Do not install the TV in protruding locations. If you install the unit in the following locations, injury may result.

- ☐ Do not install the unit in a location where the unit protrudes, such as pillars.
- ☐ Do not install the unit in a location that may cause facial injury.

Oils

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

Corrosion

Use of this set near the seashore may subject the set to excessive salt, corrosion and internal damage and result in deterioration of the set's performance. If the set will be subjected to these conditions, steps should be taken to reduce the humidity and temperature of the area where the set is located.

Ventilation

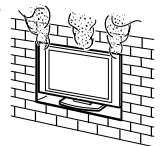
The slots and openings in the TV are provided for necessary ventilation. To ensure reliable operation of the unit, and to protect it from overheating, these slots and openings must never be blocked or covered.

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

- ☐ Do not install the unit turned backward or sideways.
- ☐ Do not install the unit 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 unit on a bed, sofa, rug or other similar surface.



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

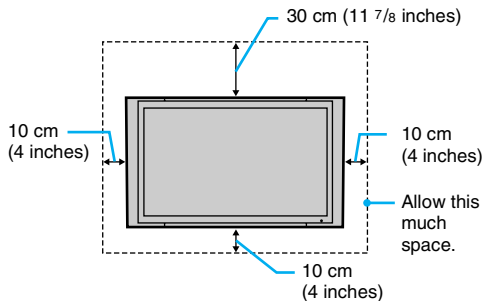


- ☐ Do not place the unit near or over a radiator or heat register, or where it is exposed to direct sunlight.

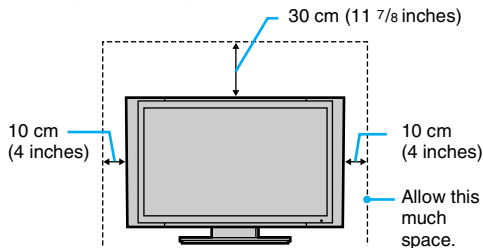


- Leave some space around the unit. Otherwise, adequate air-circulation may be blocked causing overheating and cause fire or damage the unit.

When installing the unit on the wall

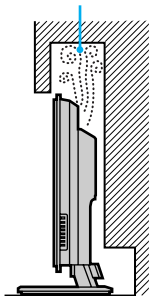


When installing the unit using a stand

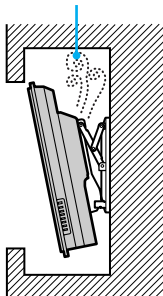


Never install the unit as follows:

Air circulation is blocked.



Air circulation is blocked.



Outdoor use

Do not install this unit outdoors. If the unit is exposed to rain, it may result in fire or electric shock. If the unit is exposed to direct sunlight, the unit may heat up and it may damage the unit.



Vehicle and ceiling

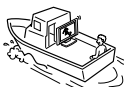
Do not install this unit in a vehicle or hung from the ceiling.

Bumping of the vehicle may cause the unit to fall down and cause injury.



Ship and vessel

Do not install this unit in a ship or vessel. If the unit is exposed to seawater, it may cause fire or damage the unit.



AC power cord

Unplug the AC power cord when moving the unit.

Do not move the unit with the AC power cord plugged in. It may damage the AC power cord and result in fire or electric shock.

Preventing from toppling over

Take measures to prevent the unit from toppling over and causing injury.

To prevent the unit from toppling over, secure the unit to the wall or pillar.

Installing on a level surface

If you install the unit on an inclined surface, the unit may fall or drop and cause injury or damage.



Placing on a stable surface

If you place the unit on an unstable surface, the unit may fall and cause injury or damage.



Fall

Do not hang anything on the unit.

The unit may fall from the stand or wall-mount unit, causing damage or serious injury.



Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the unit where the power cord is subject to wear or abuse.



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.

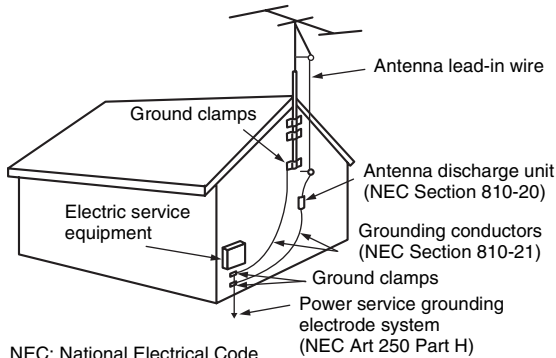
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

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.

(Continued)

Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70



NEC: National Electrical Code

Lightning

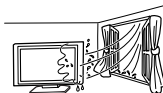
For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

Damage Requiring Service

Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ☐ When the power cord or plug is damaged or frayed.
- ☐ If liquid has been spilled into the unit.
- ☐ If the unit has been exposed to rain or water.
- ☐ If the unit has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- ☐ If the unit does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to normal operation.
- ☐ When the unit exhibits a distinct change in performance, it indicates a need for service.



Servicing

Do not attempt to service the unit 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 fire, electric shock or other hazards.



Safety Check

Upon completion of any service or repairs to the unit, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the unit is in safe operating condition, and to so certify. When the unit reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the unit.



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.



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Introducing the TV

Welcome

Thank you for purchasing the Sony Flat Panel Color TV. This manual is to be used with the following models:

- ☐ KDE-37XS955
- ☐ KDE-42XS955
- ☐ KDE-50XS955

Package Contents

The package contains the following:

- ☐ Flat panel color TV
- ☐ Remote control (RM-Y1004) and two size AA batteries
- ☐ AC power cord
- ☐ AC plug holder
- ☐ Cable band (1)
- ☐ Cable band screw (1)
- ☐ AC cord clamp
- ☐ Cleaning cloth
- ☐ Operating Instructions
- ☐ Quick Setup Guide
- ☐ Warranty Card

These items are all you need to set up and operate the TV in its basic configuration.

Most components (VCRs, DVD players, etc.) come with the necessary cables to connect them. If you want to set up a complex system, you may need to buy extra cables, connectors, etc. Be sure to have these on hand before you start to connect your system.

(Continued)

Features

Some of the features that you will enjoy with your new TV include:

- ❑ **Integrated HDTV:** You can watch digital television programs and enjoy the improved audio/video quality offered by these programs.
- ❑ **CableCARD™ slot:** Provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD™, which is provided by your cable TV company, is inserted into the TV's rear panel CableCARD™ slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box. (Check with your cable TV company about CableCARD™ service details, limitations, pricing, and availability. For more information about CableCARD™ in this manual, see pages 18 and 51.)
- ❑ **WEGA Engine™:** Delivers superb picture quality from any video source by minimizing the signal deterioration caused by digital-to-analog conversion and stabilizing the signal processing. The WEGA engine features unique Sony technology, including:
 - The first step in the digital processing system, Composite Component Processor2 (CCP2), which enhances input signal to noise ratio by chroma decoder digital processing;
 - **DRC (Digital Reality Creation®) MultiFunction 2 circuitry:** Enables the digital mapping of any NTSC source (DVD, VHS, DBS, Cable, etc.), to create a picture that is precise and finer in detail, rivaling high definition resolution. Incoming HD signals (1080i) are also bitmapped, utilizing Sony's proprietary algorithm to provide a crisp and clear picture;
 - **IFP (Image Format Processor):** The Digital Texture Enhancer function of this chip provides the optimal contrast by utilizing a wide dynamic range. This chip also reduces signal noise, by using an improved motion vector algorithm, while maintaining image sharpness.
 - **New Panel Driver LSI:** This drive provides a more realistic color expression by improving the color space of the original signal and color gradation.
- ❑ **S-master Full Digital Amplifier:** Delivers superb clear dialog and reproduces the original sound quality while minimizing any sound fragmentation or jitter noise.
- ❑ **BN Smoother™:** Reduces the block noise caused by digital video encoding and decoding process.
- ❑ **CineMotion®:** Provides an optimized display by automatically detecting film content and applying a reverse 3/2 pulldown process. Moving pictures will appear clearer and more natural-looking.

- ❑ **Wide Screen Mode:** Watch conventional 4:3 aspect ratio broadcasts in wide screen (16:9) mode.
- ❑ **Favorite Channels:** Allows you to preview and select from 16 of your favorite channels.
- ❑ **Steady Sound[®]:** Equalizes volume levels so there is consistent output between programs and commercials.
- ❑ **Memory Stick[®] Viewer:** Allows you to view on your TV screen digital images (JPEG) and movies (MPEG1) with background music (MP3) that are stored on Memory Stick media.
- ❑ **Component Video Inputs:** Offers the best video quality for DVD (480p and 480i), and digital set-top box (1080i, 720p, 480p and 480i) connections.
- ❑ **Parental Control:** V-Chip technology allows parents to block unsuitable programming from younger viewers.
- ❑ **HDMI (High-Definition Multimedia Interface):** Provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.

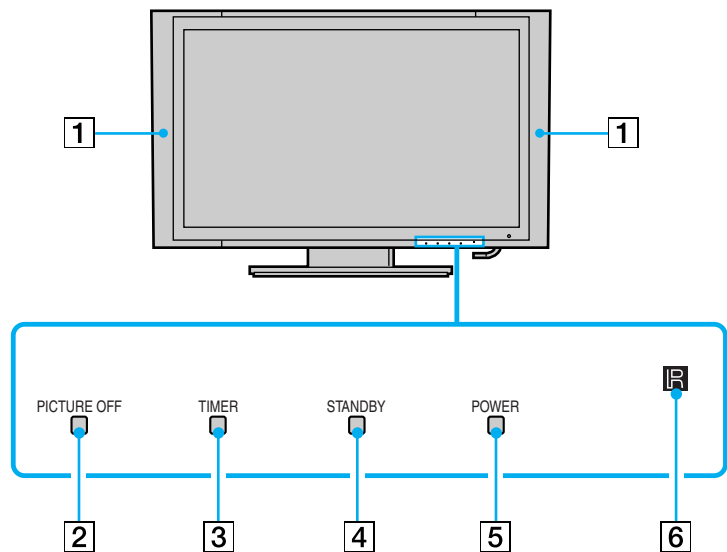
Setting Up the TV

Overview

This chapter includes illustrated instructions for setting up your TV.

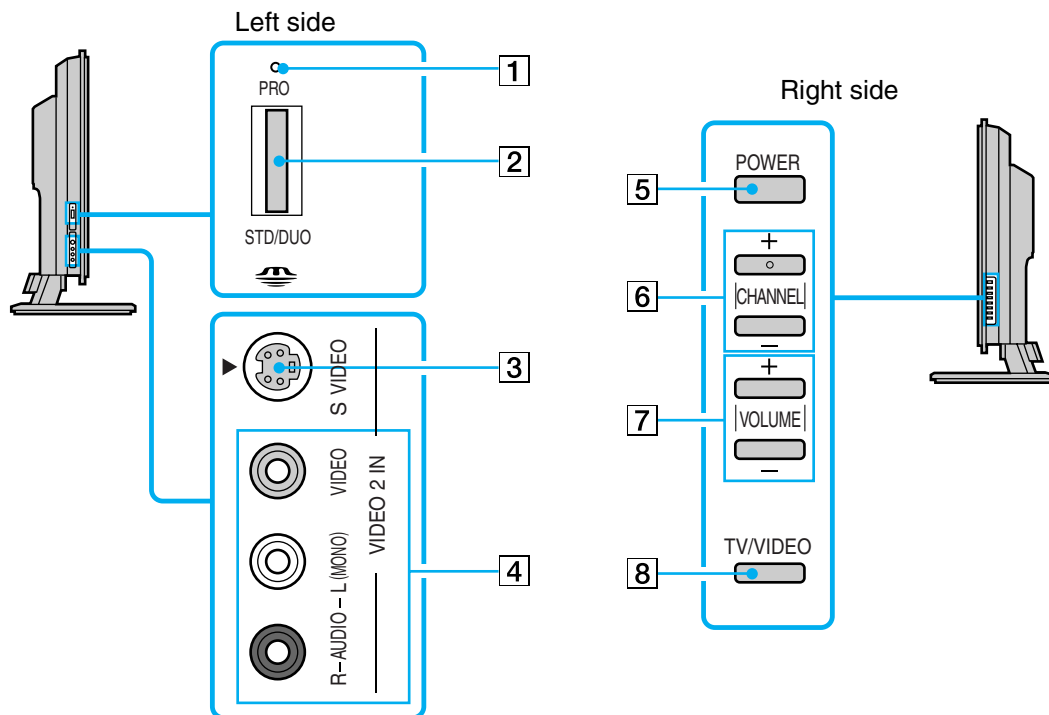
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Front panel



Item	Description
1 Speakers (Left/Right)	Outputs audio signal.
2 PICTURE OFF LED	When lit, indicates that the Picture Off feature is activated. For details, see page 56.
3 TIMER LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV set is turned off. For details, see page 107.
4 STANDBY LED	When in standby mode, the LED lights up in red.
5 POWER LED	Lights up in green when the TV set is turned on. The LED does not light up when the main power is turned off. If the LED blinks in red continuously, this may indicate the display unit needs servicing (see “Contacting Sony” on page 111).
6 (IR) Infrared Receiver	Receives IR signals from the remote control.

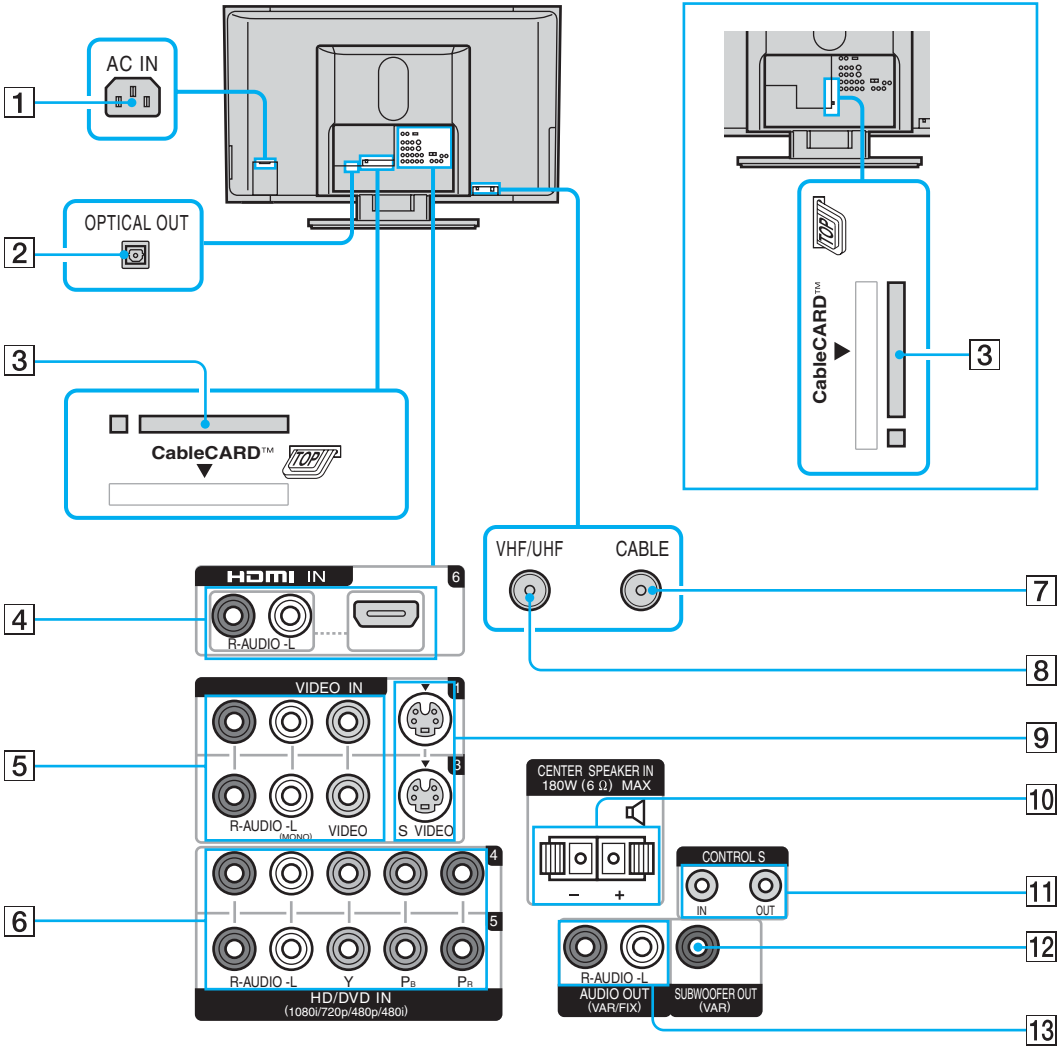
Side panel



Item	Description
1 Memory Stick indicator	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
2 Memory Stick slot	Memory Stick insertion slot. For details, see “Inserting and Removing a Memory Stick” on page 78.
3 VIDEO 2 IN S VIDEO	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (4).
4 VIDEO 2 IN VIDEO/ L (MONO)- AUDIO-R	Connects to the composite A/V output jacks on your camcorder or other video equipment.
5 Main POWER	Press to turn on and off the main power of the TV.
6 + CHANNEL –	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL.
7 + VOLUME –	Press to adjust the volume.
8 TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV’s video inputs.

Rear panel

For KDE-50XS955



Jack	Description
1 AC IN	Connects the supplied AC power cord.
2 DIGITAL AUDIO (OPTICAL) OUT (PCM/DOLBY* DIGITAL)	Connect to the optical audio input of a digital audio component that is PCM/Dolby Digital compatible.
3 CableCARD™ slot	CableCARD™ provides cable subscribers with access to secure, digitally encrypted cable channels—without the need for a set-top-box—that will enable you to receive not only standard definition but also high definition television. For more information, see page 51.

Jack	Description
4 VIDEO 6 IN HDMI IN/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 component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.
5 VIDEO 1/3 IN VIDEO/ R-AUDIO-L (MONO)	Connect to the composite A/V output jacks on your VCR or other video component. A third composite A/V input jack (VIDEO 2) is located on the left side panel of the TV.
6 HD/DVD 4/5 IN (1080i/720p/480p/ 480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (9) or the composite video (5) connections.
7 CABLE	RF input that connects to your cable signal.
8 VHF/UHF	RF input that connects to your VHF/UHF antenna or cable box.
9 VIDEO 1/3 IN S VIDEO	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than the composite video (5).
10 CENTER SPEAKER IN 180W (6Ω) MAX	Connect the center output terminals of Dolby Pro Logic* system decoder amplifier. You can use the TV speakers as a center speaker.
11 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.
12 SUBWOOFER OUT (VAR)	Connects to the input jack of your woofer.
13 AUDIO OUT (VAR/FIX/R/L)	Connects 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.

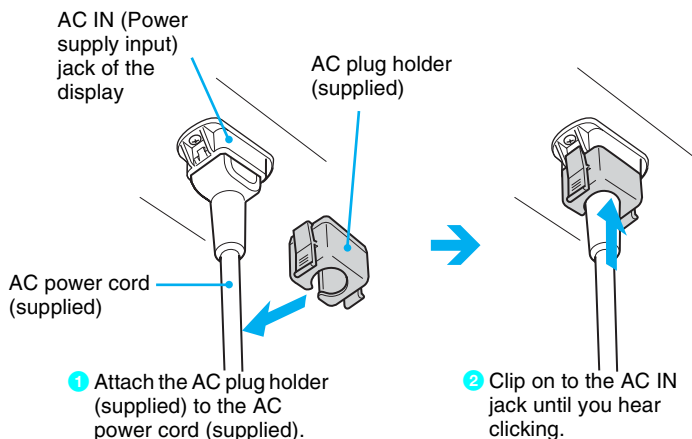
* "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

Connecting the Power Cord



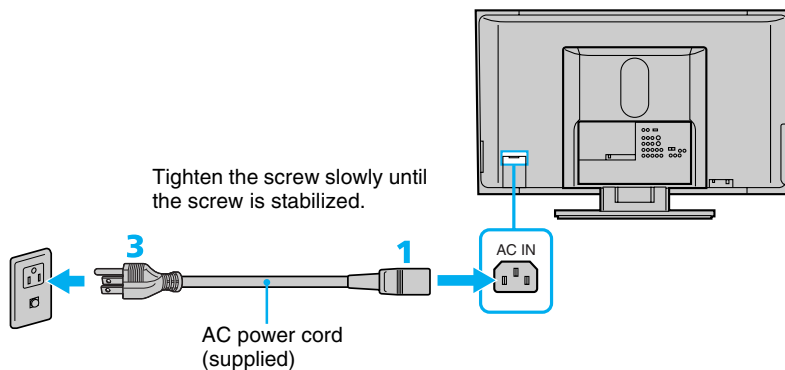
Complete other connections prior to connecting the power cord.

- 1 Connect the power cord to the AC IN connector of the TV.
- 2 Secure the AC power plug to the display's AC IN jack.



When you unplug the AC power cord, drag the holder down by pushing both sides of the holder, then pull out the plug.

- 3 Connect the other end of the AC power cord (supplied) to a wall outlet.



Be sure to use the supplied AC power cords.



When connecting optional components, do not connect the AC power cords to wall outlets until you have completed making all connections.



Do not use damaged cables, such as cables whose connectors are deformed.

Preventing the TV from Toppling Over

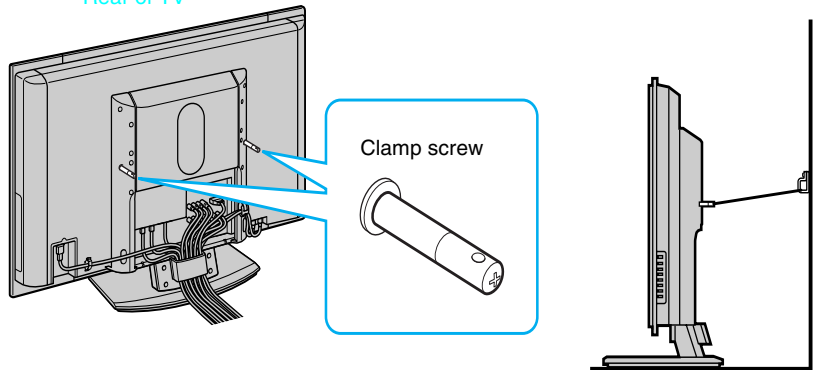
WARNING

Be sure to take measures to prevent stand from toppling over. If you fail to do so, the TV may topple over and cause injury. Anchor the TV to a wall, pillar, etc., to prevent it from toppling over.

Prepare a commercially available strong rope or chain and wall anchor bracket beforehand.

After connections with antennas and other equipment are completed, be sure to attach a sturdy strong rope or chain securely to each clamp screw, and attach it to a wall or pillar.

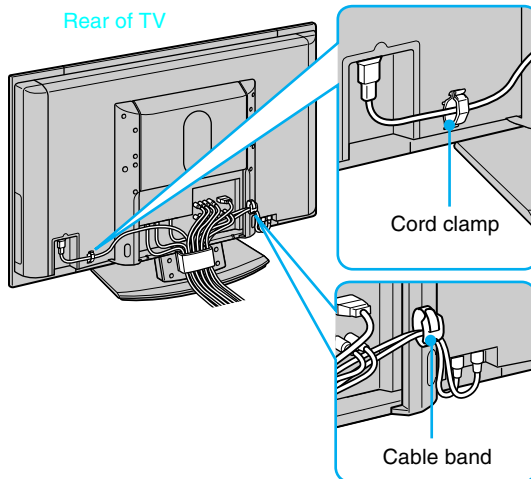
Rear of TV



Bundling the Connecting Cables

You can bundle the connecting cables using the supplied cord clamp with a cable band at the rear of the TV.

- 1 Bundle the connecting cables.



- 2 Attach the supplied cord clamp for the AC power cord.
- 3 Remove the cable cover.
One side of the cable cover is secured by screws.
- 4 Store the connecting cables.
- 5 Secure the cord clamp and replace the cable cover.

Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If You Are Connecting	See Page
Cable or Antenna	24
<input type="checkbox"/> No cable box or VCR	
Cable Box and Antenna	25
<input type="checkbox"/> Cable box unscrambles only some channels (usually premium channels)	
<input type="checkbox"/> No VCR	
Cable Box	26
<input type="checkbox"/> Cable box unscrambles all channels	
<input type="checkbox"/> No VCR	

If you are connecting a VCR

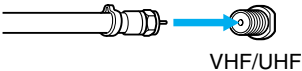

- ☐ See the connections described on pages 30 and 32.


Cable or Antenna

For best results, use this connection if you are connecting a cable or an antenna and you:

- ❑ Do not need a cable box to unscramble channels. (If you have a cable box, see page 26.)
- ❑ Do not intend to connect a VCR. (If you have a VCR, see pages 30 and 32.)

For antenna connection, use the 75-ohm coaxial cable (not supplied).

Cable Type	Connect As Shown
VHF Only or combined VHF/UHF	<div>75-ohm coaxial cable</div> <div></div> <div>VHF/UHF</div>
Cable	<div>75-ohm coaxial cable</div> <div></div> <div>CABLE</div>

 When using an indoor antenna, such as rabbit-ear or dipole-antenna, keep the antenna away from the display unit. If not, noise may appear on the screen.

Note on Using This Connection

To Do This ...	Do This ...
Switch the TV's input between the cable and antenna	Press ANT to switch back and forth between the TV's VHF/UHF and CABLE inputs.

Cable Box and Antenna

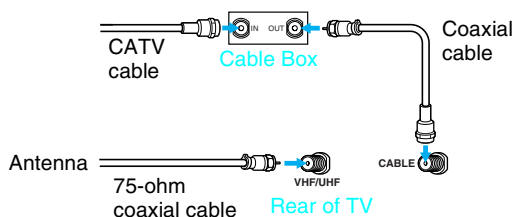
⚡ Before connecting a cable box, See “Using CableCARD™” on page 51.

For best results, use this connection if:

- ☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ☐ You do not have a VCR. (If you have a VCR, see pages 30 and 32.)

With this connection you can:

- ☐ Use the remote control to change channels coming through the cable box to the TV’s CABLE input. (You must first program the remote control for your specific cable box; see “Programming the Remote Control” on page 58.)
- ☐ Use the remote control to change channels coming directly into the TV’s VHF/UHF input jack.



About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV’s CABLE input jack.

Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the remote control to operate the cable box	Program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the cable box	Press SAT/CABLE (FUNCTION) .
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV’s Channel Fix feature to lock in a specific channel. For details, see “Using the Channel Menu” on page 99.
Switch the TV’s input between the cable box and cable	Press ANT to switch back and forth between the TV’s VHF/UHF (scrambled channels) and CABLE (unscrambled) inputs.



Do not leave the display indication of the cable box turned on.

Cable Box

⚡ Before connecting a cable box, See “Using CableCARD™,” on page 51.

For best results, use this connection if:

- ☐ Your cable company scrambles all channels, which requires you to use a cable box.
- ☐ You do not have a VCR. (If you have a VCR, see pages 30 and 32.)

With this connection you can:

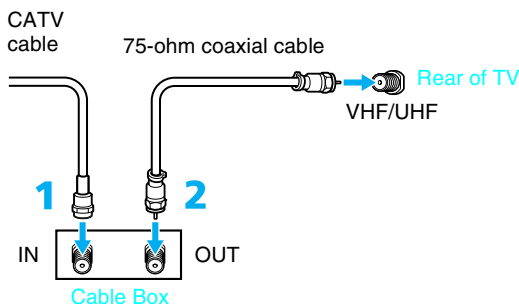
- ☐ Use the remote control to change channels coming through the cable box to the TV’s VHF/UHF jack. (You must first program the remote control for your specific cable box, see page 58.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features. If some of your channels are scrambled, but others are not, consider using the “Cable Box and Antenna” connection on page 25 instead.

To connect the cable box

- 1** Connect the CATV cable to the cable box’s input jack.
- 2** Use the 75-ohm coaxial cable (not supplied) to connect the cable box’s output jack to the TV’s VHF/UHF jack.
- 3** Run the Auto Setup program, as described in “Setting Up the Channel List” on page 53.



Notes on Using This Connection

<i>To Do This ...</i>	<i>Do This ...</i>
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the remote control to operate the cable box	Program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the cable box	Press SAT/CABLE (FUNCTION) .
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV’s Channel Fix feature to lock in a specific channel. For details, see “Using the Channel Menu” on page 99.



Do not leave the display indication of the cable box turned on.

Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:






If You Are Connecting	See Page
About Using S VIDEO	29
VCR and Cable	30
VCR and Cable Box	32
Two VCRs for Tape Editing	34
Satellite Receiver	36
Satellite Receiver and VCR	38
DVD Player with Component Video Connectors	41
DVD Player with S VIDEO and Audio Connectors	43
Digital Satellite Receiver with HDMI Connector	44
DVD Player or Digital Satellite Receiver via AV Receiver with CENTER SPEAKER IN Terminals	46
Camcorder	48
Audio Receiver	49
Sub Woofer	49
Device with an Optical (Digital Audio) Connector	50
Using the CONTROL S Feature	50

Making Video Connections

Your TV includes several types of video inputs. When connecting your TV, use the inputs that are available on your components that provide the best video performance, as described below.

Best Video Performance



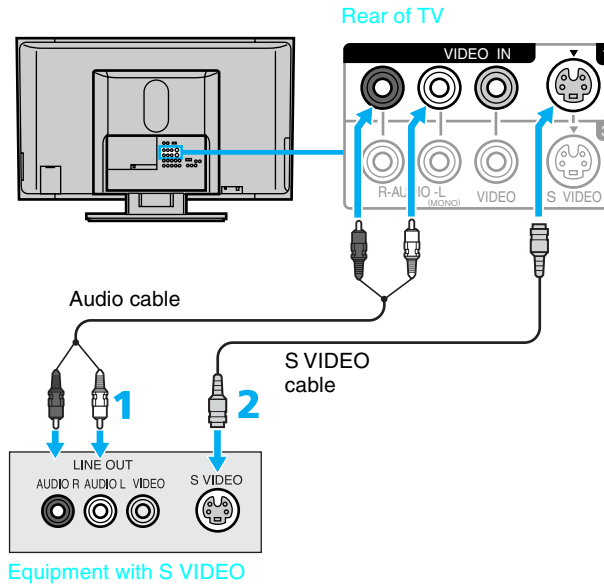
Connector type	
	HDMI (High-Definition Multimedia Interface)
	Component video
	S VIDEO
	Composite video
	RF/Coaxial

About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection



VCR and Cable

For best results, use this connection if:

- ☐ Your cable company does not require you to use a cable box.

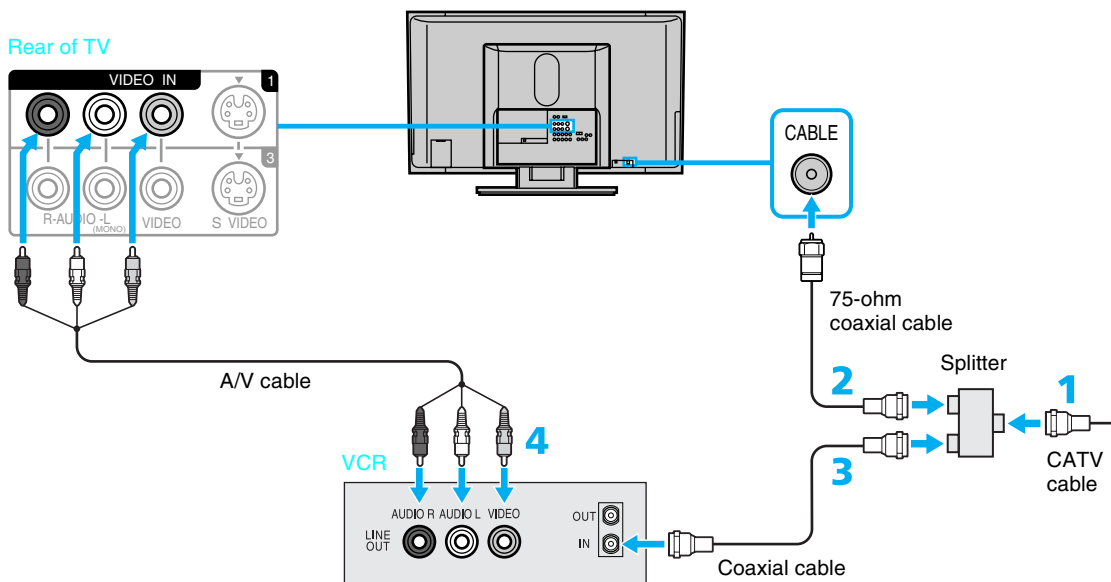
About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

To connect the VCR and cable

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Using the 75-ohm coaxial cable (not supplied), connect one of the output jack of the splitter to the TV's CABLE jack.
- 3 Using a coaxial cable, connect the splitter's other output jack to the VCR's input jack.
- 4 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks (VIDEO 1 or 3).
- 5 Run the Auto Program function, as described in "Setting Up the Channel List" on page 53.

 **Using S VIDEO jacks? See page 29.**




Notes on Using This Connection

To Do This ...	Do This ...
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (CABLE in the illustration).
Set up the remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the VCR	Press DVD/VCR (FUNCTION) .
Control VCR functions with the remote control	See “Operating a VCR” on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.



Do not leave the display indication of the VCR turned on.

VCR and Cable Box

 Before connecting a cable box, See “Using CableCARD™,” on page 51.

For best results, use this connection if:

- ☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features.

With this connection you can:

- ☐ Use the remote control to change channels coming through the cable box. You must first program the remote control for your specific cable box; see “Programming the Remote Control” on page 58.
- ☐ Use the remote control to change channels coming directly into the TV’s CABLE input jack. (The TV’s tuner provides a better signal than the cable box.)
- ☐ Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

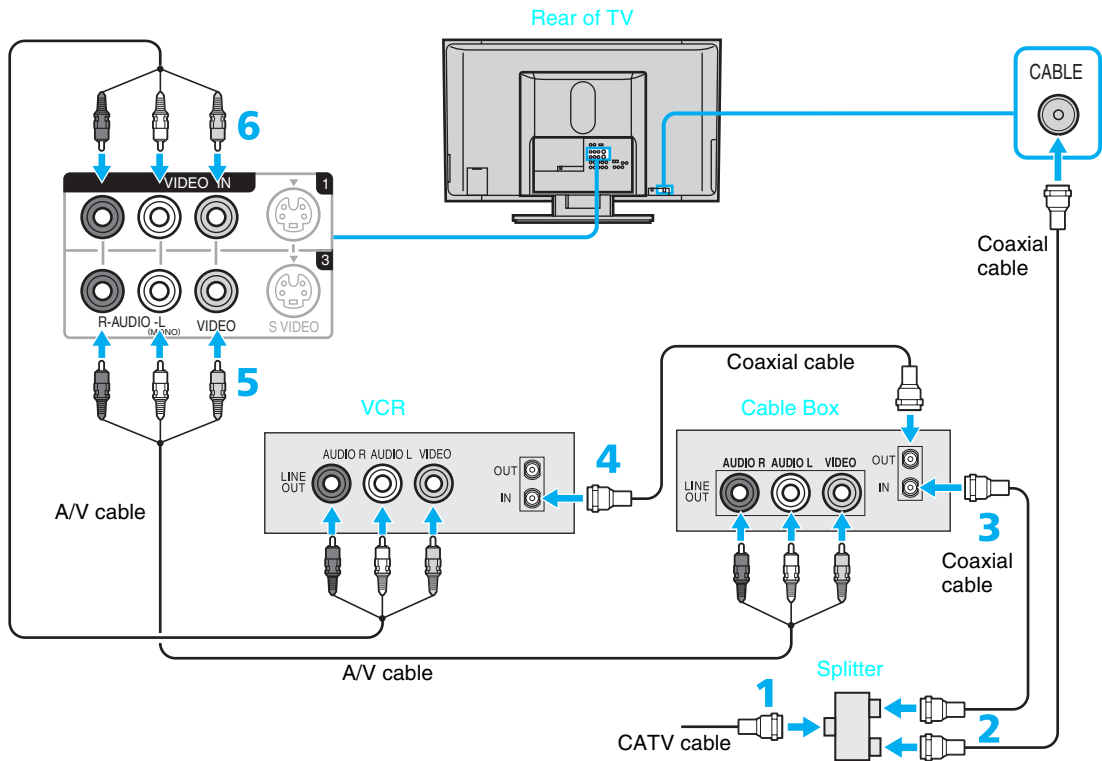
- ☐ A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.
- ☐ Four coaxial cables.
- ☐ Two A/V cable or two S VIDEO cable with audio cables.

To connect the VCR and cable box

- 1** Connect the CATV cable to the single (input) jack of the splitter.
- 2** Use a coaxial cable to connect one of the splitter’s two output jacks to the TV’s CABLE input jack.
- 3** Use a coaxial cable to connect the splitter’s other output jack to the cable box’s input jack.
- 4** Use a coaxial cable to connect the cable box’s output jack to the VCR’s RF input jack.
- 5** Use an A/V cable to connect the cable box’s A/V output jacks to the TV’s A/V input jacks.
- 6** Use an A/V cable to connect the VCR’s A/V output jacks to the TV’s A/V input jacks (VIDEO 1 or 3).
- 7** Run the Auto Setup program, as described in “Setting Up the Channel List” on page 53.



Using S VIDEO jacks? See page 29.



Notes on Using This Connection

To Do This ...	Do This ...
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (CABLE in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on page 58.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE (FUNCTION) . For the VCR, press DVD/VCR (FUNCTION) .
Control specific cable box and VCR functions with the remote control	See "Operating a Cable Box" on page 60 and "Operating a VCR" on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.




Do not leave the display indication of the cable box and VCR turned on.

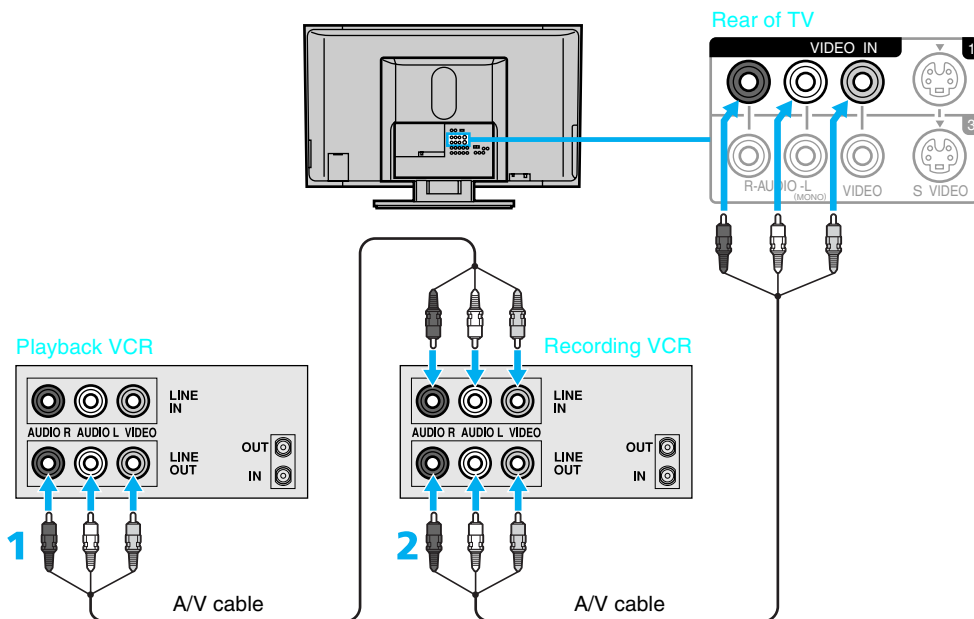
Two VCRs for Tape Editing


Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

To connect two VCRs for tape editing

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the recording VCR's A/V input jacks.
- 2 Use an A/V cable to connect the recording VCR's A/V output jacks to the TV's A/V input jacks (VIDEO 1 or 3).

 **Using S VIDEO jacks? See page 29.**



 **When connecting two VCRs for tape editing;**

- you cannot edit a tape with copy protection.
- do not connect the TV's A/V input jack and output jack to your VCRs at the same time to avoid looping the signal.

Notes on Using This Connection

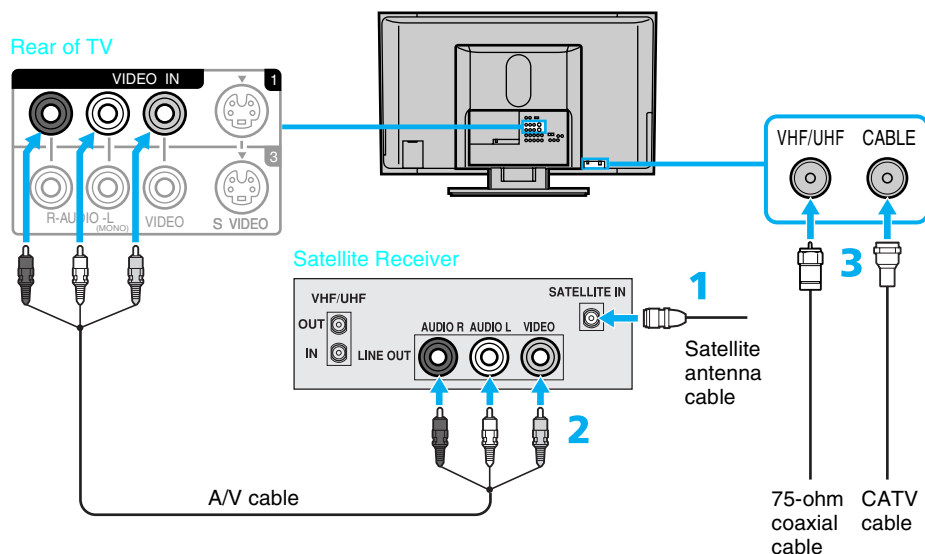
<i>To Do This ...</i>	<i>Do This ...</i>
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the VCR(s)	Press DVD/VCR (FUNCTION) .
Control VCR functions with the remote control	See “Operating a VCR” on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.

Satellite Receiver

To connect a satellite receiver

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks (VIDEO 1 or 3).
- 3 Connect the 75-ohm coaxial cable (not supplied) from your cable or antenna to the TV's CABLE or VHF/UHF input jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 53.

 Using S VIDEO jacks? See page 29.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the satellite receiver	Press SAT/CABLE (FUNCTION) .
Control satellite receiver functions with the remote control	See “Operating a Satellite Receiver” on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.



Do not leave the Electronic Program Guide and display indication turned on.

Satellite Receiver and VCR

To connect a satellite receiver and VCR

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use the 75-ohm coaxial cable to connect one of the splitter's two output jacks to the TV's CABLE jack.
- 3 Use the 75-ohm coaxial cable to connect the splitter's other output jack to the VCR's VHF/UHF input jack.
- 4 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 5 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.
- 6 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks (VIDEO 1 or 3).
- 7 Run Auto Program, as described in "Setting Up the Channel List" on page 53.



Using S VIDEO jacks? See page 29.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). The VCR may need to be turned on and set to the satellite receiver input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE (FUNCTION) . For the VCR, press DVD/VCR (FUNCTION) .
Control satellite receiver and VCR functions with the remote control	See “Operating a Satellite Receiver” on page 60 and “Operating a VCR” on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.



Do not leave the Electronic Program Guide and display indication turned on.

DVD Player with Component Video Connectors

For best results, use this connection if your DVD player has component video (Y, P_B, P_R) jacks.

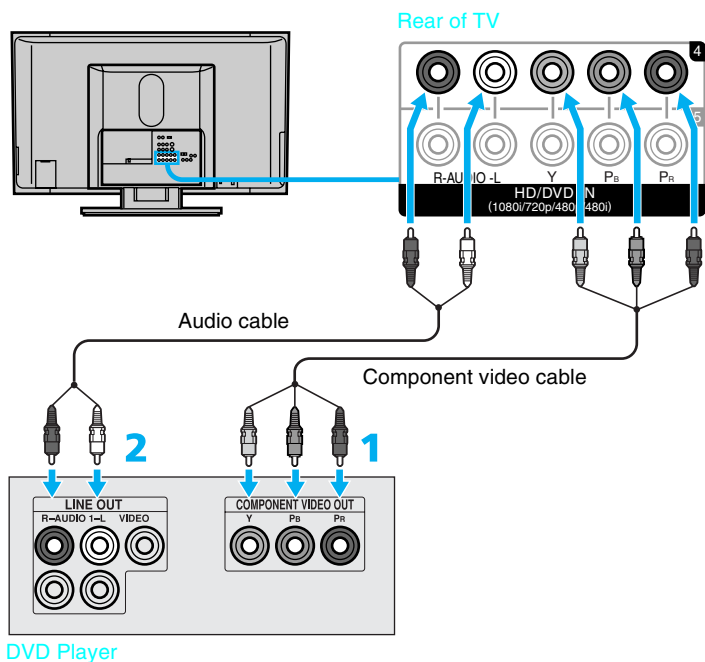
To connect a DVD player with component video connectors

- 1 Use a component video cable to connect the DVD player's Y, P_B and P_R output jacks to the Y, P_B and P_R input jacks (VIDEO 4 or 5) on the TV.



The Y, P_B and P_R jacks on your DVD player are sometimes labeled Y, C_B and C_R, or Y, B-Y and R-Y. If so, connect the cables to their matching color jacks.



- 2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 4 or 5 audio input jacks.



(Continued)

Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 4 in the illustration).
Set up the remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See “Programming the Remote Control” on page 58.
Activate the remote control to operate the DVD player	Press DVD/VCR (FUNCTION) .
Control DVD functions with the remote control	See “Operating a DVD Player or DVD Changer” on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.

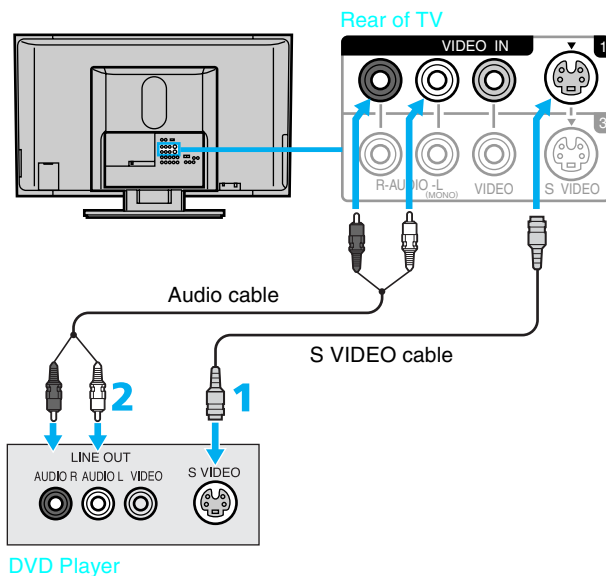
-  **You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**
-  **Do not leave a still image, such as the DVD menu, displayed on the screen.**

DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

To connect a DVD player with A/V connectors

- 1 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO input jack (VIDEO 1 or 3).
- 2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 1 or 3 audio input jacks.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on page 58.
Activate the remote control to operate the DVD player	Press DVD/VCR (FUNCTION) .
Control DVD functions with the remote control	See "Operating a DVD Player or DVD Changer" on page 61.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.




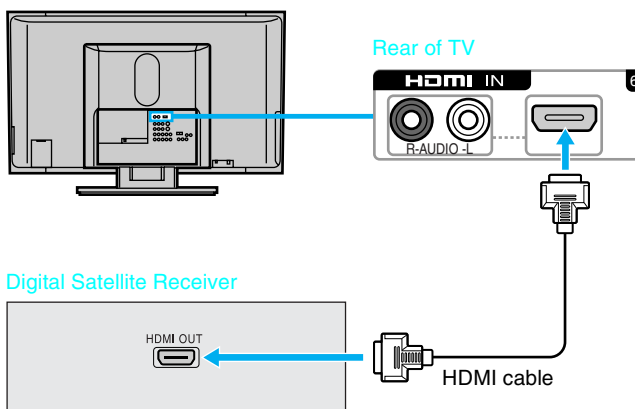
Do not leave a still image, such as the DVD menu, displayed on the screen.

Digital Satellite Receiver with HDMI Connector

To connect a Digital Satellite Receiver with HDMI connector

- 1 Use a HDMI cable to connect the Digital Satellite Receiver's HDMI output connector to the TV's HDMI IN connector (VIDEO 6).


 **HDMI cables transmit both audio and video signals. (Separate audio cables are not necessary.) You can purchase HDMI cables at your local electronics store.**



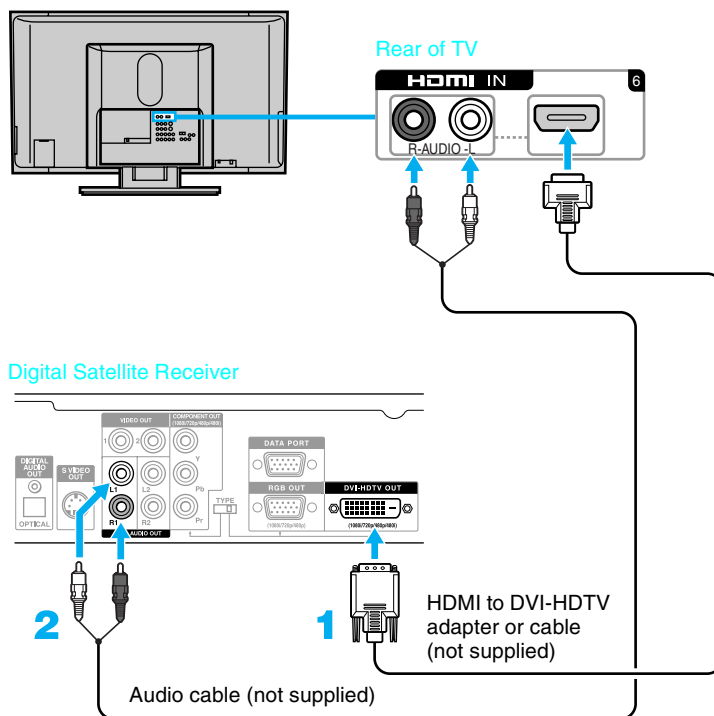
To connect a Digital satellite receiver with DVI-HDTV connector

If the Digital Satellite Receiver does not have an HDMI connector, you can connect the TV's HDMI IN connector to the Digital Satellite Receiver's DVI-HDTV OUT connector using the HDMI cable (not supplied).

- 1 Use a HDMI to DVI-HDTV adapter or cable (not supplied) to connect the Digital Satellite Receiver's DVI-HDTV OUT connector to the TV's HDMI IN connector (VIDEO 6).

 **The DVI-HDTV VIDEO connector does not provide audio, so audio cables must be connected to provide sound when an HDMI to DVI-HDTV adapter is used.**

- 2 Use an Audio cable to connect the Digital Satellite Receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks (VIDEO 6).



Notes on Using This Connection

To Do This ...	Do This ...
Watch the digital satellite receiver	Press TV/VIDEO repeatedly to select the digital satellite receiver input (VIDEO 6 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.



Do not leave the Electronic Program Guide and display indication turned on.




Do not connect to a PC to the TV with the DVI cable.


DVD Player or Digital Satellite Receiver via AV Receiver with CENTER SPEAKER IN Terminals

Use this connection if you have a digital audio device that is PCM/Dolby Digital compatible, such as an AV Receiver with a Dolby Pro Logic system decoder.

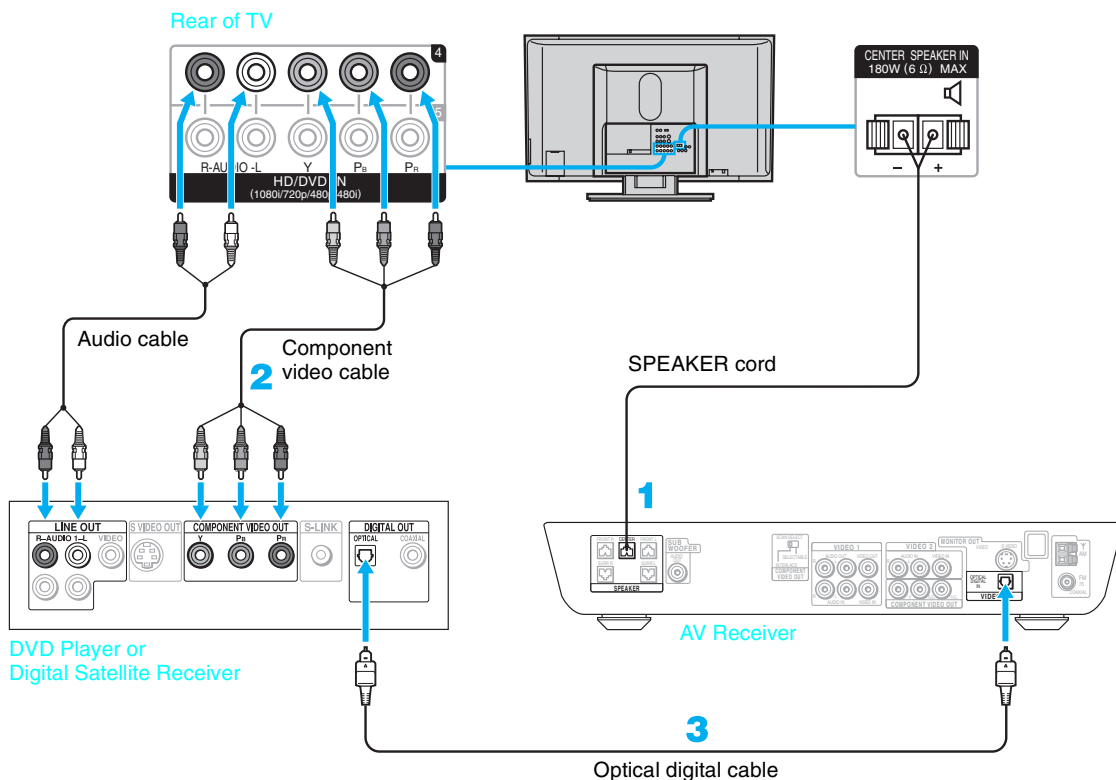
To connect a DVD player or digital satellite receiver via AV receiver with CENTER SPEAKER IN terminals

- 1** Using a SPEAKER cord, connect the TV's CENTER SPEAKER IN terminals to the AV Receiver's CENTER SPEAKER OUT terminals.
- 2** Using a component video cable, connect the DVD player or Digital Satellite Receiver's Y, P_B and P_R jacks to the Y, P_B and P_R jacks on the TV. Use the HD/DVD IN 4 connections. Using an Audio cable, connect the DVD player or Digital Satellite Receiver to the TV's AUDIO IN jacks.

 **If your DVD player does not have component (Y, P_B, P_R) jacks, you can connect the DVD player with A/V connectors, use the connection described on page 43.**

 **If your Digital Satellite Receiver has a HDMI connector, for best picture quality, use the connection described on page 44.**

- 3** Using an optical digital cable, connect the DVD player or Digital Satellite Receiver's OPTICAL OUT jack to the AV Receiver's OPTICAL IN jack.



When using the TV's speakers as the center speaker


Using **Center Speaker In** in the AUDIO menu, select the video input for which you want to use the TV's speakers as the center speaker, and set to **On**.

Camcorder

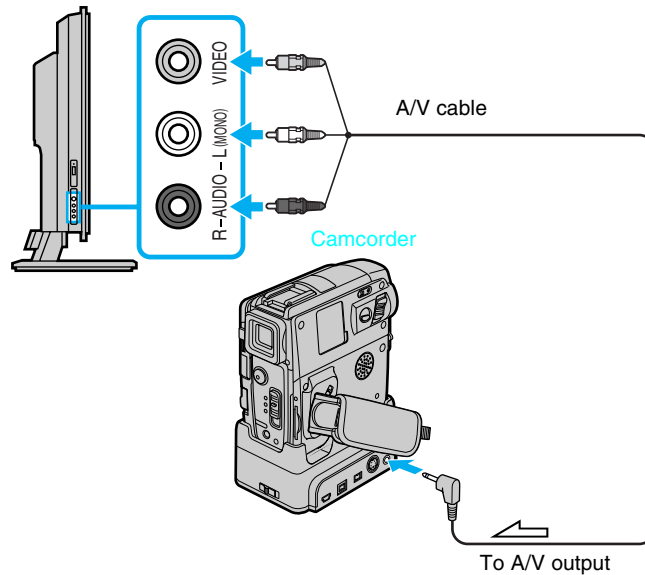
For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, you can connect the camcorder to the TV's rear A/V input jacks.

To connect a camcorder

Use an A/V cable to connect the camcorder's A/V output jacks to the TV's A/V input jacks (VIDEO 2).


 **Using S VIDEO jacks? See page 29.**

Left side of TV



Notes on Using This Connection

To Do This ...	Do This ...
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 105.

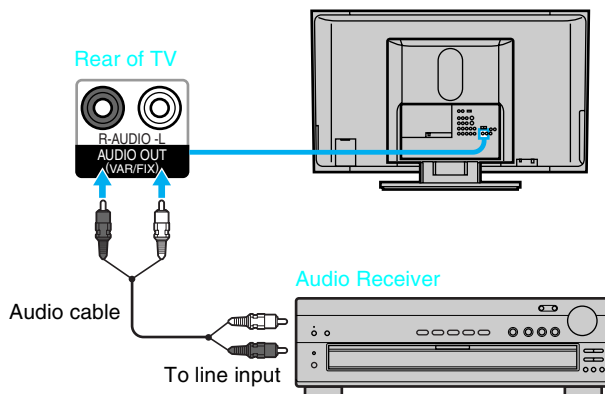
 **Do not leave a still image of the camcorder or digital camera displayed on the screen.**

Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

To connect an audio system

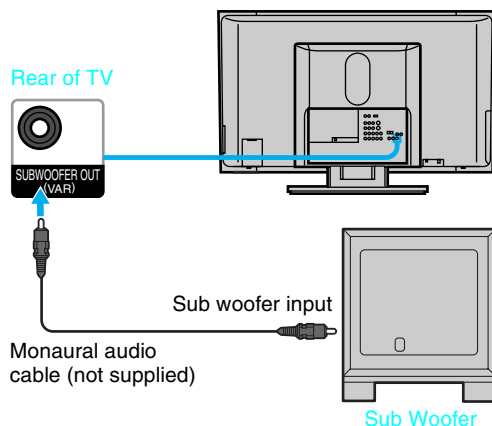
- 1 Use an audio cable to connect the TV's AUDIO OUT jacks to the audio receiver's line input jacks.



- 2 Using the TV's Audio menu, set the **Speaker** option to **Off**. Then set the **Audio Out** option to **Fixed** or **Variable**, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 95.
- 3 Turn on the audio receiver, and then set the audio receiver's line input to the jack into which you connected the TV.

Sub Woofer

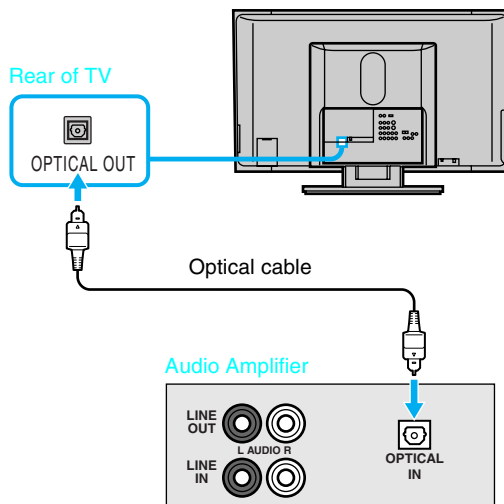
Use a monaural audio cable to connect the TV's SUBWOOFER OUT jack to the sub woofer's input jack.



Device with an Optical (Digital Audio) Connector

You can use the TV's digital audio output jack (OPTICAL OUT) to connect a digital audio device that is PCM/Dolby Digital compatible, such as an audio amplifier.

- Using an optical cable, connect the device's OPTICAL IN jack to the TV's OPTICAL OUT jack.

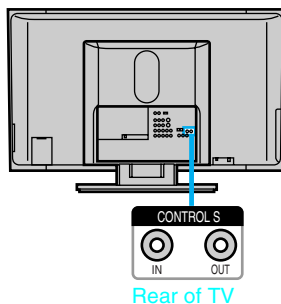


Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with a single remote control. In addition, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.



Using CableCARD™

CableCARD™ provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD™, which is provided by your cable TV company, is inserted into the TV's rear panel CableCARD™ slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box.

About Using CableCARD™

If you are planning to use a separate cable box for digital cable TV services, you may be able to receive programming using this TV with the CableCARD™ instead — except in the following circumstances:

- ❑ Your cable TV company does not provide CableCARD™ service in your viewing area.
- ❑ You want to access your cable TV company's interactive or advanced features (such as video-on-demand or, in some cases, pay-per-view). At this time, these services require a bidirectional link, which are only available through the use of a separate set-top box. CableCARD™ is currently a unidirectional device only, and cannot provide these advanced services.

Check with your cable TV company for CableCARD™ service details, limitations, pricing, and availability, all of which are determined by your cable TV company — not Sony.

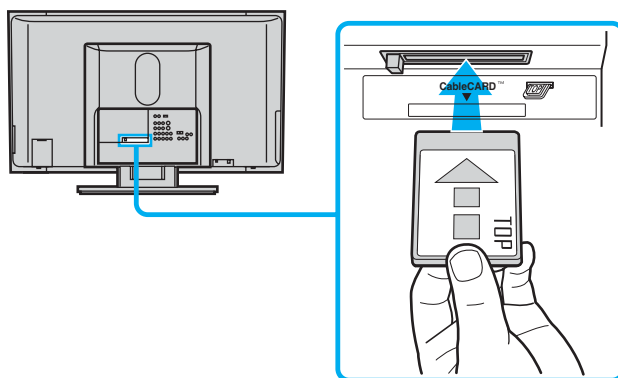
Activating CableCARD™ Service

Before you can use CableCARD™ service, you need to insert the CableCARD™ (supplied by your cable TV company) and activate the service, as described below:

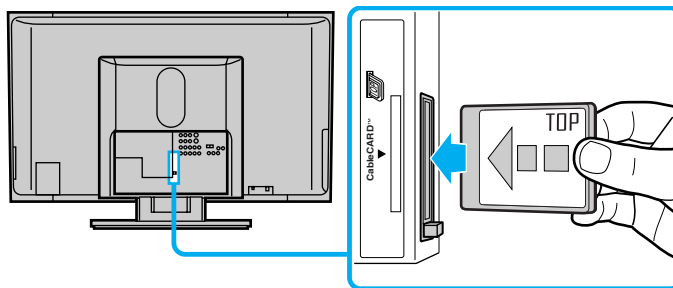
- 1 Insert the CableCARD™ into the TV's CableCARD™ slot.


KDE-37XS955

KDE-42XS955



(Continued)




 You can also access information about your CableCARD™ in the Applications Menu (see page 108).

CAUTION: Inserting the CableCARD™ incorrectly may result in permanent damage to the card and the TV.

- 2 Gently push the card into the slot until it locks into place.
 - 3 The CableCARD™ setup screen is displayed. This screen includes information your cable TV company will request before they can activate your service.
 - 4 Follow the displayed instructions: Phone your cable TV company. A representative will guide you through the activation process.
 - 5 After your CableCARD™ is activated, your cable TV company will download the service information, including the channel list, to the CableCARD™.
- After the CableCARD™ has acquired channels from your cable TV company, the TV tunes to the lowest available channel.

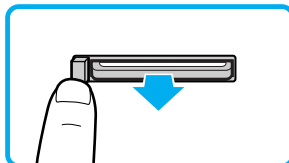
Removing the CableCARD™

In the event you want to cancel your service, contact your cable TV company.

 **Once the CableCARD™ is removed, your TV will no longer decrypt digital cable TV programming services that require CableCARD™.**

- 1 Push the eject button on the TV's CableCARD™ slot to release the card.

Eject button



- 2 Pull the CableCARD™ straight out of the slot to remove it.

To install a different CableCARD™, follow the instructions in “Activating CableCARD™ Service” on page 51.

Setting Up the Channel List

After you finish connecting your TV, you need to run Initial Setup, which automatically sets up available analog and digital channels. The Initial Setup screen appears when you turn on your TV for the first time after hooking it up. 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 99).



The Auto Program feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

To run Initial Setup the first time you turn on your TV

- 1 Press **POWER** to turn on the TV.
The Initial Setup screen appears.
- 2 Press **▲** or **▼** to select the on-screen display language. Then press **⏏**.
The message “Start auto program now?” appears.
- 3 Press **▲** or **▼** to select “Yes”, then press **⏏**.

Auto Program automatically creates a list of receivable channels. When finished, the lowest numbered channel is displayed.

To run Auto Program again at a later time

- ☐ Use the Auto Program feature as described on page 99.

To add individual digital channels

- ☐ Use the Digital Channels feature as described on page 99.



Auto Program may take up to 50 minutes or more to complete. A progress bar is displayed while the channel list is being created.

Using the Remote Control

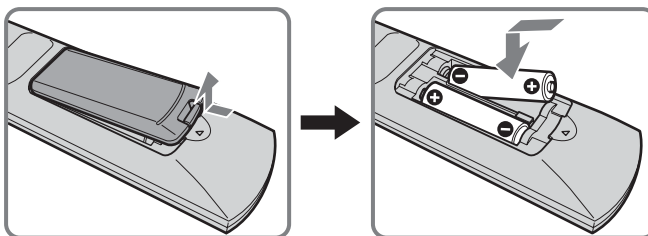
Overview




This chapter describes how to set up, program, and use the remote control.

Topic	Page
Inserting Batteries	55
Button Descriptions	56
Programming the Remote Control	58
Using Other Equipment with Your Remote Control	60

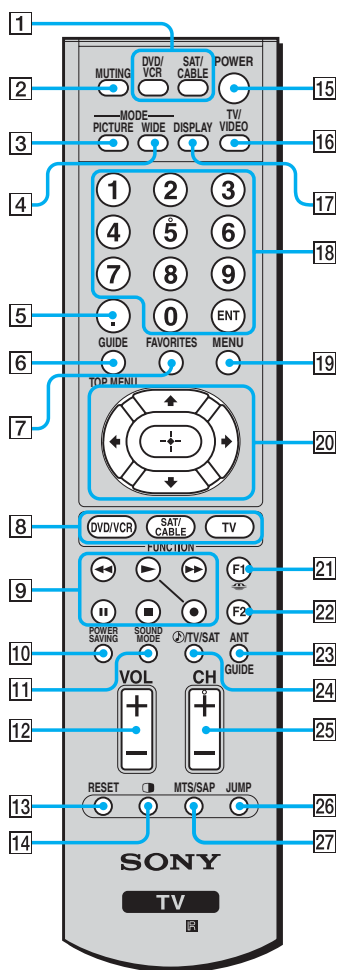
Inserting Batteries

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










-  **Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that 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 where the humidity is high.**
-  **The supplied remote control can be programmed to operate most video equipment (see “Programming the Remote Control” on page 58).**

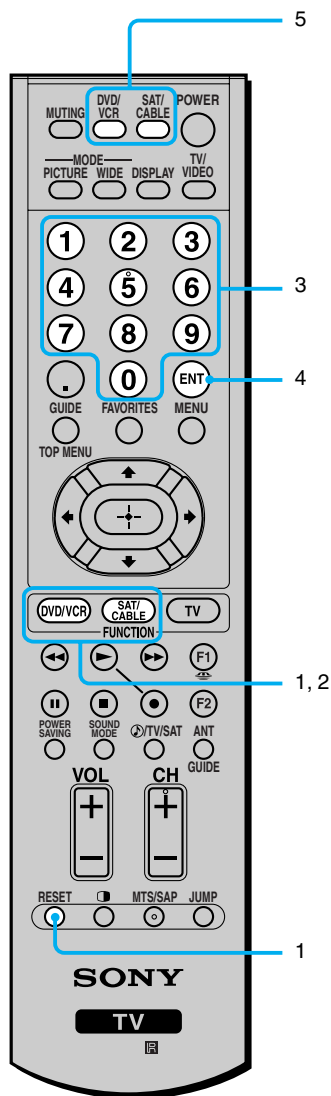
Button Descriptions



Button	Description
1 DVD/VCR, SAT/CABLE Power Buttons	Press to turn on and off the equipment you have programmed into the remote control. For details, see “Programming the Remote Control” on page 58. DVD/VCR: Press to turn on and off the video equipment. SAT/CABLE: Press to turn on and off the satellite receiver or cable box.
2 MUTING	Press to mute the sound. Press again or press VOL+ to restore the sound.
3 PICTURE	Press repeatedly to cycle through the available video picture modes: Vivid , Standard , Pro . The video picture modes can be also accessed in the Video menu. For details, see “Using the Video Menu” on page 92.
4 WIDE	Press repeatedly to step through the Wide Screen Mode settings: Wide Zoom , Normal , Full , Zoom . The Wide Screen Mode settings can be also accessed in the Screen menu. For details, see pages 67 and 68.
5	Use with 0-9 and ENT buttons to select digital channels (for example, 2.1). For more details, see “Watching TV” on page 64.
6 GUIDE	Press to display the program guide. When FUNCTION is switched on DVD/VCR
7 FAVORITES	Press to display the top menu of your DVD/VCR. Press to display the Favorite Channels list. For details, see page 72.
8 FUNCTION Buttons	Press to have the remote control operate the equipment you want. For details, see “Programming the Remote Control” on page 58.
9 DVD/VCR Operating Buttons	When FUNCTION is switched on DVD/VCR , these buttons operate the video equipment you have programmed into the remote control. For details, see “Using Other Equipment with Your Remote Control” on page 60. ◀◀ Rewind ▶▶ Play ▶▶ Fast forward Pause ■ Stop ● Record
10 POWER SAVING	Press repeatedly to cycle through the power saving modes: Standard , Reduced , Picture Off . For more details, see “Selecting Setup Options” on page 105.
11 SOUND MODE	Press repeatedly to cycle through the sound modes: Dynamic , Clear Voice , Custom . For more details, see “Selecting Audio Options” on page 95.
12 VOL +/-	Press to adjust the volume.

Button	Description
13 RESET	Press to reset the settings to the factory defaults. See pages 92 and 95. Also used to clear Label Channels.
14  (Twin View)	Press to turn on and off Twin View. For details, see page 69.
15 POWER	Press to turn on and off the TV.
16 TV/VIDEO	Press repeatedly to cycle through the video equipments connected to the TV's video inputs.
17 DISPLAY	Press once to display the current channel number, and channel label. If set, the current channel number will display for 10 seconds.
18 0 - 9 ENT	Press 0 - 9 to select a channel; the channel changes after 2 seconds. Press ENT to change channels immediately.
19 MENU	Press to display the menu. Press again to exit from the menu. For details, see page 91.
20  	Press  to move the on-screen cursor. To select an item, press  .
21 F1	Press to select the function of your video equipment which is programmed on the TV's remote control. When FUNCTION is switched on TV
	Press to display the Memory Stick menu. For more details, see "Using the Memory Stick Viewer" on page 75.
22 F2	Press to select the function of your video equipment which is programmed on the TV's remote control.
23 ANT	Press to switch between the sources connected to the TV's VHF/UHF and CABLE inputs. When FUNCTION is switched on SAT/CABLE
GUIDE	Press to display the program guide of your satellite program provider.
24 	Press to select the sound effect modes: TruSurround, Simulated, Off. The sound effect modes can be also accessed in the Audio menu. For more details, see "Selecting Audio Options" on page 95. When FUNCTION is switched on SAT/CABLE
TV/SAT	Press to switch between the TV and the satellite receiver.
25 CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either CH.
26 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
27 MTS/SAP	Press repeatedly to cycle through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP (Second Audio Program), and Mono. The MTS setting can be also accessed in the Audio menu. For more details, see "Selecting Audio Options" on page 95.

Programming the Remote Control



The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Programmable Code Number
DVD/VCR	601 (Sony Dream System)
SAT/Cable	801 (Sony Satellite Receiver)

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedures to program the remote control.

The equipment must have infrared (IR) remote capability in order to be used with this remote control.

From the "Manufacturer's Codes" listed on page 59, select the three-digit code number for the manufacturer's code of your equipment. If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment. Use the code number to complete the following procedure.

- 1 Press the **DVD/VCR (FUNCTION)** and **RESET** buttons simultaneously, or press the **SAT/CABLE (FUNCTION)** and **RESET** buttons simultaneously. DVD/VCR and SAT/CABLE buttons flash.
- 2 Press the function button you want to program.
To program a cable box or a satellite receiver
 Press **SAT/CABLE (FUNCTION)**.
To program video equipment
 Press **DVD/VCR (FUNCTION)**.
- 3 Enter the three-digit manufacturer's code number using the **0-9** buttons.
- 4 Press **ENT**.
- 5 To check if the code number works, aim the TV's remote control at the equipment and press **DVD/VCR** and/or **SAT/CABLE (POWER)** that corresponds with that equipment. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

If you enter a new code number, the code number you previously entered at that setting is erased.

In some rare cases, you may not be able to operate your equipment with the Sony remote control. In this case, use the equipment's own remote control unit.

Manufacturer's Codes

DVD Players

Manufacturer	Code
Sony	751
General Electric	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Panasonic	753
Philips	757
Pioneer	752
RCA/PROSCAN	755
Samsung	758
Toshiba	754
Zenith	760

DVD Changers

Manufacturer	Code
Sony	765
Panasonic	766

DVD/VCR Combo Units

Manufacturer	Code
Sony	767
Zenith	768
Toshiba	773
Samsung	774
JVC	775
Broksonic	776
Panasonic	777

HDD/DVD Combo Units

Manufacturer	Code
Sony	770, 771, 772

5.1ch DVD AV System

Manufacturer	Code
Sony (DAV)	601, 602, 603, 604

AV Receivers

Manufacturer	Code
Sony	764

VCRs

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa*	338, 344
Audio Dynamic	314, 337

Manufacturer	Code
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LG	332
LXI (SEARS)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/ MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Orion	317
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/ PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335

Manufacturer	Code
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Cable Boxes

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218, 222
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General Electric	802
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

* If an Aiwa VCR does not work even though you enter the code for Aiwa, enter the code for Sony instead.

Using Other Equipment with Your Remote Control

To operate other connected equipment with your TV, first turn to page 59 and program the necessary code. For operating video equipment, press **TV/VIDEO** repeatedly until you see the video input on the screen for your connected equipment. Remote control operation tips are provided below.

Operating a Cable Box

To Do This ...	Press
Activate the remote control to operate the cable box	SAT/CABLE (FUNCTION)
Turn on/off	SAT/CABLE
Select a channel	0-9, ENT
Change channels	CH +/-
Back to previous channel	JUMP

Operating a Satellite Receiver

To Do This ...	Press
Activate the remote control to operate the satellite receiver	SAT/CABLE (FUNCTION)
Turn on/off	SAT/CABLE (POWER)
Select a channel	0-9, ENT
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display SAT Guide	GUIDE
Display SAT Menu	MENU
Move highlight (cursor)	↑ ↓ ← →
Select item	⏏


Operating a VCR

To Do This ...	Press
Activate the remote control to operate the VCR	DVD/VCR (FUNCTION)
Turn on/off	DVD/VCR (POWER)
Change channels	CH +/-
Record	▶ and ● simultaneously
Play	▶
Stop	■
Fast forward	▶▶
Rewind the tape	◀◀
Pause	(press again to resume normal playback)
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)


Operating a DVD Player or DVD Changer

To Do This ...	Press
Activate the remote control to operate the DVD	DVD/VCR (FUNCTION)
Turn on/off	DVD/VCR (POWER)
If you have a DVD changer, to skip disk	F1
Play	▶
Stop	■
Pause	(press again to resume normal playback)
Step through different tracks of the disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of the disc	CH+ to step forward or CH- to step backward
Select a track directly	0-9, ENT
Display the menu (setup)	MENU
Display the top menu	TOP MENU
Operate the DVD menu	⬆ ⬇ ⬇ ⬆, (⬆)

Operating a 5.1ch DVD AV System (Sony DAV)

To Do This ...	Press
Activate the remote control to operate the DVD	DVD/VCR (FUNCTION)
Turn on/off	DVD/VCR (POWER)
Select other equipment connected to the DAV	F1
Skip a disk	F2
Display the DVD menu	TOP MENU
Display the menu (setup)	MENU
Move highlight (cursor)	↑ ↓ ← →
Select item	
Change Volume	VOL+/-, MUTE

Operating a DVD/VCR Combo Unit

To Do This ...	Press
Activate the remote control to operate the DVD/VCR	DVD/VCR (FUNCTION)
Turn on/off	VCR/DVD (POWER)
If you have a DVD/VCR combo component,	
Select the DVD	F1
Select the VCR	F2
Display the DVD menu	MENU
Play	▶
Stop	■
Pause	⏸
Search the picture forward or backward	▶▶ or ◀◀ during playback
Move highlight (cursor) and select (DVD)	↑ ↓ ← → 
Record (VCR)	▶ and ● simultaneously
Change channels (VCR)	CH +/- or 0-9, ENT (using tuner)
Adjust tracking (VCR)	CH +/- (during tape playback)

Operating an AV Receiver

To Do This ...	Press
Turn on/off	DVD/VCR (POWER)
Change the volume	VOL +/-, MUTE

Using the Features


Overview

This chapter describes how to use the features of your TV.

<i>Topic</i>	<i>Page</i>
Watching TV	64
Using the Program Guide	65
Using Wide Screen Mode	67
Using Twin View	69
Using Favorite Channels	72

Watching TV


💡 For a complete list of all the functions of the remote control, see page 56.

To Do This ...	Do This ...
Activate the remote control to operate the TV	Press TV (FUNCTION) .
Turn on/off the TV	Press POWER .
Tune directly to a channel	To tune to analog channels, press 0-9 and then ENT (or wait 3 seconds). For digital subchannels, press 0-9 , ⦿ , press 0-9 again, and then ENT . For example, to select subchannel 2.1, press 2 , ⦿ , 1 , and then press ENT . <div> You can also select channels using the program guide. See page 65 for details.</div>
Adjust the volume	Press VOL +/- .
Mute the volume	Press MUTING (press again or VOL + to unmute).
Alternate back and forth between two channels	Press JUMP . The TV alternates between the current channel and the last channel tuned.
Display the current channel number (and other information)	Press DISPLAY once to display the channel number, current time, wide mode, and channel label (if set). Press DISPLAY again to turn Display off.
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Change video and audio options, customize the TV's setup, set parental controls, and more	Press MENU to display the Menu. For details, see "Using the Menus" on page 91.
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT to alternate between sources connected to the TV's VHF/UHF and CABLE inputs.

Using the Program Guide

Displaying the Program Guide

The program guide lets you review program information and select both analog and digital channels.

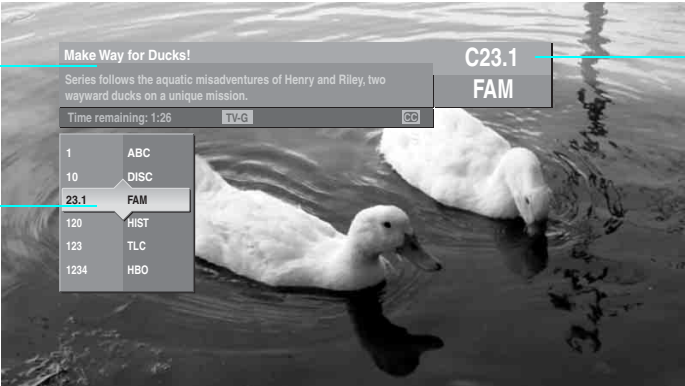
 **The Program Guide cannot be displayed when the TV is tuned to one of the video inputs or if the Channel Fix option is set to anything other than Off (see page 99).**

To display the program guide:


Press **GUIDE** on the remote control. The program guide appears, with the currently selected program showing in the background.





Program title and description, program duration, time remaining, rating information, closed-caption availability, format, resolution (if digital), aspect ratio

Selectable channel list



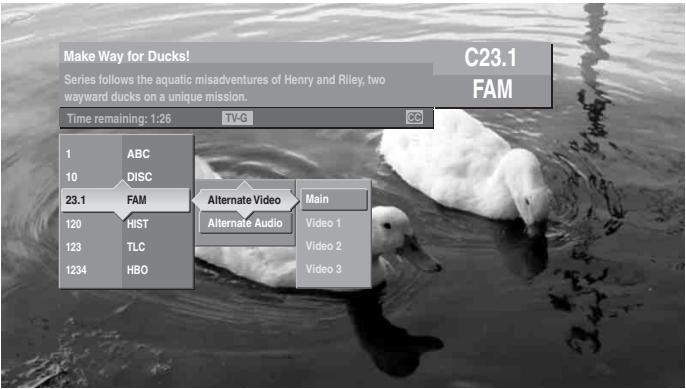
Channel number, call letters

 **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.**

To Do This ...	Do This ...
Scroll through the channel list	Press  or  .
Select the currently displayed channel and exit the guide	Press  .
Display additional options	Press  . See “Using Additional Program Guide Options” on page 66.
Exit the Guide (without changing channels)	Press GUIDE .

Using Additional
Program Guide
Options

Press **➡** while in the program guide’s channel list to display the following options, which allow you to customize the settings of the program on the currently tuned channel.




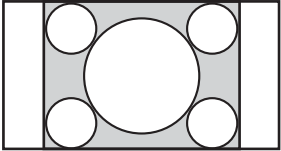


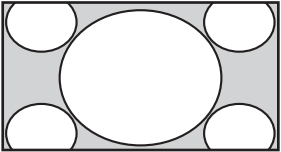


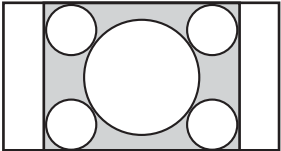


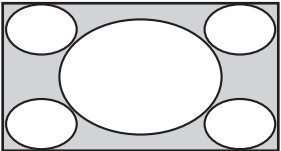


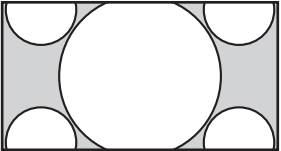
Option	Description
Alternate Video (when available)	Each program has a main video stream (the video that you see when the channel is first tuned), and may have alternate video streams. This option allows you to switch among these alternate video streams.
Alternate Audio (when available)	Each program has a main audio stream (the audio that you hear when the channel is first tuned) and may have alternate audio streams. This option allows you to switch among these alternate audio streams (e.g., for different languages).

Using Wide Screen Mode

You can also access the screen mode settings in the Screen menu. For details, see page 97.

Wide screen mode lets you watch 4:3 normal broadcasts in several wide screen modes (16:9 aspect ratio).
Press **WIDE** repeatedly to toggle through the following screen mode settings.

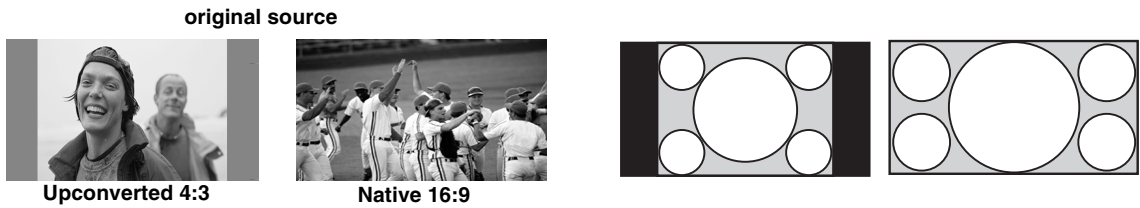
Changing the Wide Screen Mode for 4:3 Source (Standard definition source)

original source		
		
Example	Description	
	 Wide Zoom	<p>Wide Zoom enlarges the center portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.</p> 
	 Normal	<p>Normal displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.</p> 
	 Full	<p>Full stretches the 4:3 picture horizontally, to fill the 16:9 screen.</p> 
	 Zoom	<p>Zoom enlarges the 4:3 picture proportionately to fill the 16:9 screen. Zoom is useful for watching Letterbox movies.</p> 


When you change channels or inputs, the Wide Mode settings revert to the 4:3 Default setting in the Screen Menu. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 98.

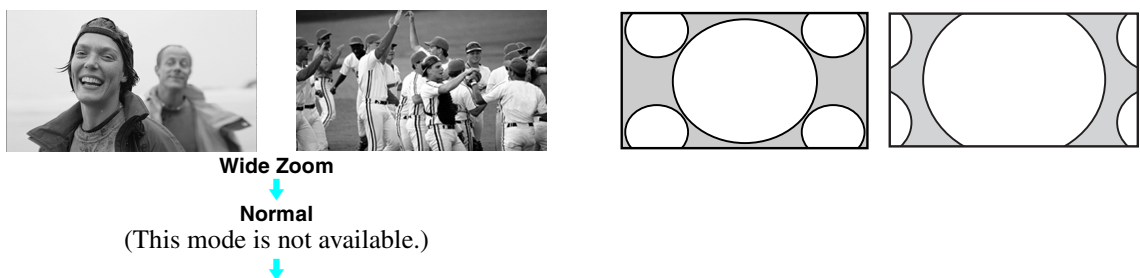
(Continued)


Changing the Wide Screen Mode for 16:9 Source (High definition source)

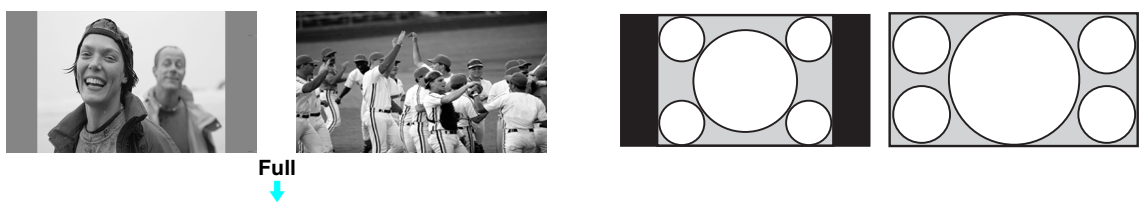



Example	Description
---------	-------------

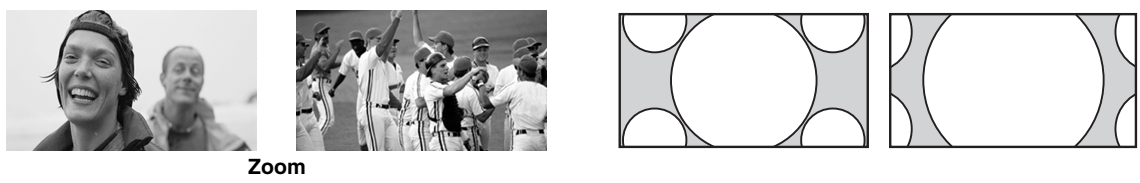
 **Wide Zoom** enlarges the center portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.





 **Full** displays the picture at its original size.



 **Zoom** enlarges the picture proportionately, both vertically and horizontally.



-  When the TV receives a 720p or 1080i signal, Normal cannot be selected.
-  When TV receives a 720p or 1080i signal that is 4:3 aspect ratio picture (upconverted to 16:9) with a black bar at each side, Full returns the picture to its original size.

Using Twin View

Twin View lets you see two pictures from two sources — from an antenna, VCR, DVD, etc. — on the screen at the same time. You hear the sound from only one of the sources at a time, but you can choose which source's sound is selected. You can also change the relative size of each of the pictures.

Displaying Twin Pictures

1 Tune the TV to a working channel.

2 Press .

A second picture appears.





To cancel Twin View and watch the active picture

Press  or .

Factors Affecting Twin View

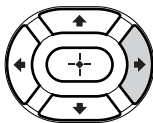
- ☐ If you use a cable box to view all channels, the same channel appears in both windows of Twin View because the cable box unscrambles only one channel at a time.
- ☐ If you use a cable box, you can view the cable box output in one Twin View window and view a different source (such as a VCR or DVD player) in the second window by using the **TV/VIDEO** button. For details, see “Connecting Optional Equipment” on page 28.
- ☐ Digital sources, as well as any sources connected to the VIDEO 4, 5, 6 inputs, display in the left window, but not in the right window.
- ☐ If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side in Twin View, the 4:3 source appears larger.
- ☐ Twin View does not display channels that are blocked by parental settings (see page 102).

Activating the Picture

You can use the  and  buttons to activate the left and right pictures while using Twin View.

To Do This ...

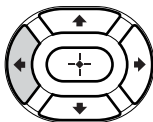
To activate the picture in the right window



Press .







To activate the picture in the left window



Press .



Functions Available in the Active (Highlighted) Window

To Do This ...	Do This ...
Tune to a channel	<p>To tune to analog channels, press 0-9 and then ENT.</p> <p>For digital subchannels, press 0-9, , press 0-9 again, and then ENT.</p> <p>For example, to select subchannel 21.13, press 2+1++1+3, and then press ENT.</p>
Adjust the volume	Press VOL +/- .
Mute the sound	Press MUTING (press again or VOL + to unmute).
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT .
Switch the TV's input between sources connected to the TV's A/V inputs	Press TV/VIDEO .
Change the picture size	Press  or  . (For details, see "Changing the Picture Size" on page 71.)

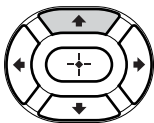
Changing the Picture Size

The zoom feature lets you vary the relative size of the left and right pictures.

To Do This ...

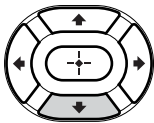
Do This ...

Enlarge the active picture



Press .

Make the active picture smaller



Press .


When you adjust the picture sizes, the TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.



Using Favorite Channels

The Favorite Channels feature lets you select programs from a list of up to 16 favorite channels that you specify. You can create a list using the Favorite Channels option in the Channel Menu, or by using the Add to Favorites feature in the Favorite Channels guide.

Using the Channel Menu

 For details on using the Channel Menu, see page 99.

- 1 Press **MENU** to display the Menu.
- 2 Press **▲** or **▼** to highlight the Channel icon and press **(+)**.
- 3 Press **(-)** to select **Favorite Channels**.
- 4 Use the **0-9** and **ENT** buttons to enter the channel number that you want to assign to the Favorite Channel number.

 **Digital channels do not display in the preview window.**

Press **(+)** to select that channel as a Favorite Channel.

 **To enter digital channel numbers in step 4, use the 0-9, **(.)**, press 0-9 again, and ENT buttons.**

- 5 To add more channels to your favorites list, repeat step 4.
To clear a Favorite Channel, press **▲** or **▼** to highlight the channel you want to clear. Press **(+)** and then press **RESET**.
- 6 Press **MENU** to exit the Menu.

Using the Favorite Channels Guide

- 1 Press **FAVORITES**. The Favorite Channels list appears.



Favorite Channels

- 2 Press **▲** or **▼** to highlight the channel you want to watch.
To add the current channel to the list of Favorite Channels, highlight **Add to Favorites** and press **(+)**.
- 3 Press **(+/-)** to select the channel you want to watch.
To change your Favorite Channels list, highlight **Edit Favorites** and press **(+/-)**.

Using the Memory Stick Viewer

About Memory Stick



Memory Stick (sold separately) is a compact, portable, and versatile Integrated Circuit recording medium with a data capacity that makes it perfect for portable applications, such as digital photography. Memory Stick is specially designed for sharing digital data among Memory Stick compatible products such as digital cameras and digital video cameras. Because it is removable, Memory Stick can also be used for external data storage.

The Memory Stick Viewer on your TV allows you to view files that are stored on Memory Stick media. You can view:

- ☐ Digital photos (JPEG files)
- ☐ Movies (MPEG1 files)

You can also play slide show background music using MP3 files (or m3u playlists) stored on your Memory Stick.

For more information about handling Memory Stick media, see “Notes on Using Memory Stick Media” on page 90.

Features

With the Memory Stick Viewer, you can:

- ☐ View TV screen digital images (JPEG) and (MPEG1) with background music (MP3) in a thumbnail index or Slide Show
- ☐ Set customized Slide Show options, including transitions and background audio
- ☐ Pan, zoom, and rotate photos
- ☐ Mark photos and set quantities of prints to be output when the Memory Stick is inserted into your photo printer (not supplied)
- ☐ Lock (protect) or delete files on the Memory Stick

Memory Stick Compatibility

This television is compatible with the following Sony brand Memory Stick media types:

- ☐ Memory Stick Media
- ☐ Memory Stick DUO and PRO DUO Media (without the Memory Stick adaptor)

! CAUTION: If you are using a Memory Stick DUO or Memory Stick PRO DUO with your TV, do not use the Memory Stick with its adaptor. Remove the adaptor before you insert it into the TV's Memory Stick slot. Inserting the Memory Stick into the slot with the adaptor may result in permanent damage to the Memory Stick and the TV.

- ☐ Memory Stick Media with Memory Select Function
- ☐ Memory Stick PRO Media

About Memory Stick PRO Media

Memory Stick PRO media features vary by and are dependent upon the design of host hardware devices. Memory Stick PRO in this television has been tested to support up to 1 GB media capacity and does not support high-speed transfer, MagicGate copyright protection technology, or access control security features.

Memory Stick Functionality

Sony cannot guarantee or assure the Memory Stick functionality on this television in the following cases:

- ☐ You are using non-Sony brand Memory Stick media.
- ☐ You are using video or audio clips that have been processed on a computer.
- ☐ You are using files that were obtained from the Internet or from a printed film processing center.
- ☐ The Memory Stick has been formatted on a personal computer.

Sony recommends that you back up all data stored on Memory Stick media to avoid potential data loss. In the above two cases, in order to avoid potential data corruption that may occur, be sure to back up data prior to use with the TV's Memory Stick Viewer. Sony cannot accept responsibility in the event that data recorded to Memory Stick media is lost or damaged. For certain non-Sony brand Memory Stick media, you can view images, but you cannot rotate, delete or protect/unprotect images on the television. An error message will occur if you attempt any of these operations. This is a result of the unique file directory structure on these particular flash memory media and is not a malfunction of the television.

File Compatibility

The Memory Stick Viewer is compatible with JPEG images taken with Sony digital still cameras and MPEG1* movies taken with Sony digital cameras and camcorders. In order to be viewable in the Memory Stick Viewer, the files must have the following file name extensions:

<i>File Type</i>	<i>Supported File Name Extensions</i>
JPEG	.jpg .jpeg
MPEG1	.mpg .mpeg

Trademark Information

Memory Stick, Memory Stick PRO, Memory Stick PRO DUO, and MagicGate are trademarks of Sony Corporation.

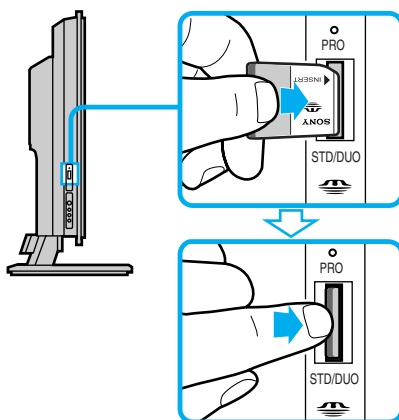
* Some variations of MPEG1 movies may not play back correctly.


Inserting and Removing a Memory Stick

Inserting a Memory Stick

! **CAUTION:** If you are using a Memory Stick DUO or Memory Stick PRO DUO with your TV, do not use the Memory Stick with its adaptor. Remove the adaptor before you insert it into the TV's Memory Stick slot. Inserting the Memory Stick into the slot with the adaptor may result in permanent damage to the Memory Stick and the TV.

- 1 Locate the Memory Stick slot (see page 17) and insert the Memory Stick into the Memory Stick slot as illustrated below. When inserted properly, it should slide in with little resistance and click into place.




 **Be sure to insert the Memory Stick in the correct direction. If the Memory Stick is forced in the wrong way, it may become damaged.**

Insert only Memory Stick media into the Memory Stick slot. Attempting to insert other objects into the slot may damage the TV.

To remove the Memory Stick, see “Removing a Memory Stick” on page 80.

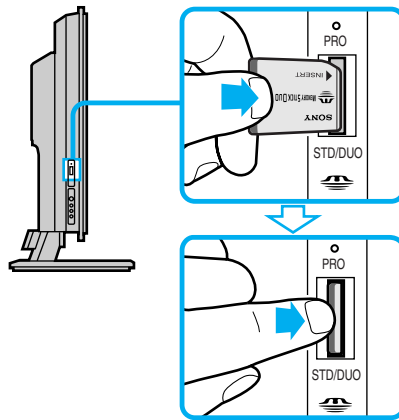
Inserting the Memory Stick DUO

Memory Stick DUO is a new, compact version of the standard-sized Memory Stick recording medium.

 **CAUTION:** The Memory Stick slot on your TV has been designed to accommodate standard and compact versions of Memory Stick. It is not necessary to use an adaptor for Memory Stick DUO and Memory Stick PRO DUO. If you use an adaptor, it may damage the adaptor and Memory Stick slot.

 **CAUTION:** Inserting the Memory Stick DUO incorrectly may result in permanent damage to the Memory Stick DUO and the LCD projection TV.

Insert the Memory Stick DUO as shown below.




To remove the Memory Stick DUO, see “Removing a Memory Stick” on page 80.

Removing a Memory Stick

To remove a Memory Stick

- 1 Check that the Memory Stick indicator is off. (When the light is on, this indicates that the TV is reading data from the Memory Stick.)

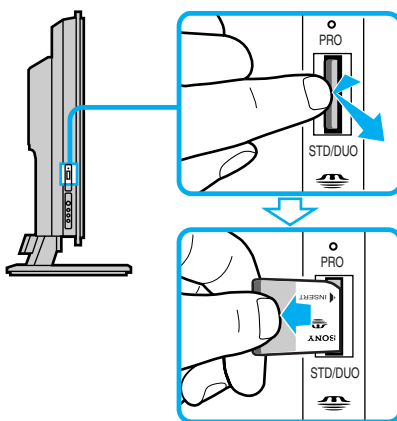
 **Removing the Memory Stick while a file is being accessed (when the Memory Stick LED on the TV's side panel is lit) may damage the Memory Stick or its contents.**

- 2 Push the Memory Stick gently into the slot, and then release it. The Memory Stick media is ejected.

 **Do not pull out the Memory Stick without first pushing it in; otherwise, the TV's locking mechanism may become damaged.**


- 3 Pull the Memory Stick completely out of the slot.

 **To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.**

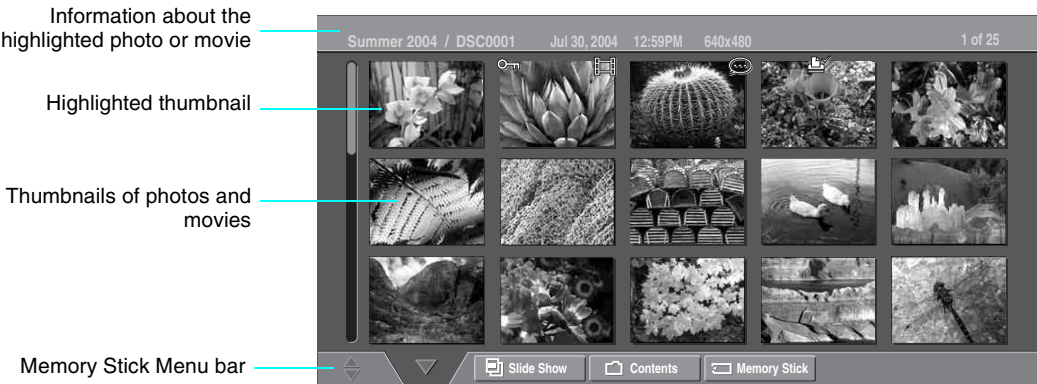


Using the Memory Stick Index





Turn on the TV and insert a Memory Stick that contains the photo or movie files you want to view. For details, see page 78.

 **If the Memory Stick Index does not appear, press F1 button on the remote control.**

The Memory Stick Index appears, which displays thumbnail images of the files stored on the Memory Stick.



About the Icons on the Thumbnail Images

	Indicates the thumbnail is a movie (MPEG1) file instead of a photo (JPEG) file.
	Indicates the thumbnail is locked. Locked files cannot be changed or deleted. For details, see “Photo Menu Bar Options” on page 84.
	Indicates that the photo is marked to be printed.
	Indicates that the photo has an associated voice memo.

Using the Memory Stick Index

The following describes how to use the Memory Stick Index.

To Do This ...	Do This ...
Move the highlight to a photo, voice memo (🗣️), or movie (🎬) thumbnail	Press 🔼 🔽 🔼 🔽.
Display the highlighted photo, voice memo, or movie file full screen	Press (⏏). For details, see “Viewing Photos” on page 83 and “Playing Movies” on page 86.
Display the next page of thumbnails	1 Press 🔽 to select ▼. 2 Press 🔽 to display the next page of thumbnails.
Display the previous or next page of thumbnails	1 Press 🔽 to select ▼. 2 Press 🔼 to select ▲. 3 To go to the previous page, press 🔼. To go to the next page, press 🔽.
Use the Memory Stick Menu bar to access additional options	1 Press 🔽 to select ▼. 2 Press 🔼 or 🔽 to select Slide Show, Contents, or Memory Stick. 3 Press 🔼 or 🔽 to select the option you want to change. For details on these options, see “Memory Stick Index Menu Bar Options” on page 88.
Move the highlight from the Memory Stick Menu bar back to the thumbnails	1 Press 🔼 or 🔽 to select ▼. 2 Press 🔼 to return to the currently displayed thumbnails, or 🔽 to display the next page of thumbnails.
Exit Memory Stick Viewer	Press the F1 button on the remote control.

Viewing Photos

When you select a photo from the Memory Stick Index (described on page 81), it displays as shown below, with the following controls.







 **JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.**

Photo Controls

 When the Menu is hidden, press  or  to go to the previous or next photo.












To Do This ...	Do This ...
Display the next or previous file on the Memory Stick	Highlight the  (Previous/Next) button. Then press  to go to the previous file, or  to go to the next file.
Hide the Photo Menu bar, displaying only the photo	With the highlight in the Photo Menu bar, press  .
Display the hidden Photo Menu bar	Press  .
Play the JPEG voice memo ( files only)	Highlight  (Play) and then press  . To pause the voice memo, highlight  (Pause) and then press  .
Display the Memory Stick Index again	Highlight Index in the Photo Menu bar and press  . For details on the Memory Stick Index, see page 82.
Access additional options in the Photo Menu bar	See “Photo Menu Bar Options” on page 84.
Exit Memory Stick Viewer	Press the F1 button on the remote control.

Photo Menu
Bar Options

The Photo Menu bar lets you access additional photo viewing options.

To access the Photo Menu bar

- 1 Press ◀ or ▶ to select Slide Show, View, or File.
- 2 Press to select the desired option.

Option	Description	
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed photo. For details, see “Using the Memory Stick Index” on page 81.	
Slide Show	Displays the Slide Show Menu. For details, see “Slide Show Menu Options” on page 88.	
View	Rotate	Allows you to rotate the photo in 90 degree increments clockwise or counterclockwise. For details, see “Using Rotate” on page 85.
	Zoom/Pan	Allows you to magnify and pan across the photo. For details, see “Using Zoom and Pan” on page 85.
File	Protect	Allows you to protect the JPEG file from any changes. When a JPEG file is protected, it cannot be rotated or deleted. Select On or Off.
	Print Quantity	Allows you to indicate the number of prints to make of the specific photo when the Memory Stick is inserted into a compatible photo printer (not supplied).
	Delete	Deletes the JPEG file from the Memory Stick. You cannot delete a JPEG file that has been protected (or if the Memory Stick is locked).

💡 JPEG files that are protected are indicated by the Lock icon.

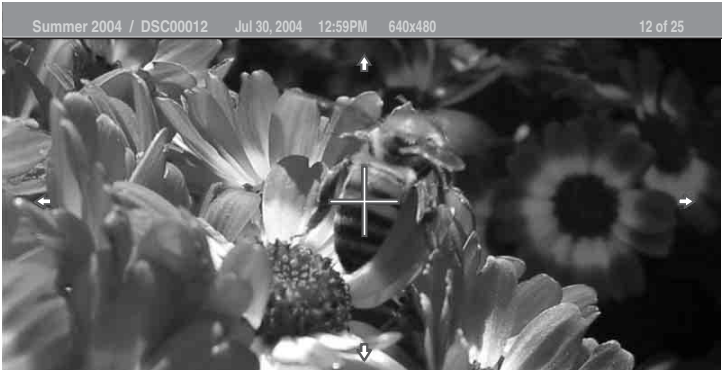
💡 The Print Quantity feature is also known as DPOF (Digital Print Order Format).

Using Zoom and Pan

To Zoom and Pan a photo

- 1 In the Photo Menu bar, highlight View.
- 2 Highlight Zoom/Pan and press (+/-).
- 3 Specify the zoom center point by using ↑ ↓ ← →; then press (+/-) to set the center.

The Zoom and Pan controls are displayed.



To Do This ...	Do This ...
Zoom in (increase magnification) or out (decrease magnification)	Highlight Zoom and press ↑ to zoom in or ↓ to zoom out. For help on using Zoom, press (+/-).
Pan (move the photo left, right, up, down)	(You can use Pan only when the photo is magnified using Zoom.) Highlight Pan and press (+/-). Then press ← → ↑ ↓ to pan around the photo. To stop using Pan, press (+/-).
Exit the Zoom/Pan controls	Highlight Exit and press (+/-).
Exit Memory Stick Viewer	Press the F1 button on the remote control.

Using Rotate

To Rotate a photo

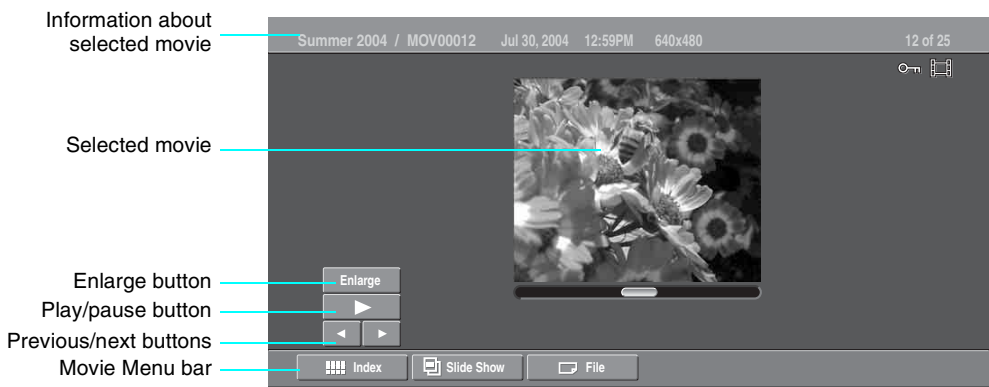
- 1 In the Photo Menu bar, highlight View.
- 2 Highlight Rotate.
- 3 To rotate clockwise, highlight Clockwise and press (+/-). To rotate counterclockwise, highlight Counterclockwise and press (+/-).

⚠ You cannot rotate a photo that has been protected. See Protect on page 87.

The photo is rotated 90 degrees each time you press (+/-).

Playing Movies

When you select a movie from the Memory Stick Index (described on page 81), it displays as shown below, with the following controls.





MPEG movies recorded in VX Fine mode with Sony digital cameras cannot be played back with the Memory Stick Viewer.

Movie Controls

The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera’s instruction manual for details.

To Do This ...	Do This ...
Enlarge the movie window	Highlight Enlarge , and then press . To display the movie controls again, press . When the movie ends, the movie controls are displayed again.
Play the movie with the movie controls displayed	Highlight (Play) and then press .
Pause the movie	Highlight (Pause) and then press .
Display the previous or next file on the Memory Stick	Highlight the (Previous/Next) button. Then press to go to the previous file, or to go to the next file.
Hide the Movie Menu bar, displaying only the movie	With the highlight in the Movie Menu bar, press .
Display the hidden Movie Menu bar	Press .
Access additional options in the Movie Menu bar	See “Movie Menu Bar Options” on page 87.
Exit Memory Stick Viewer	Press the F1 button on the remote control.

Movie Menu
Bar Options

 MPEG1 files that are protected are indicated by the Lock  icon.

To access the Movie Menu bar

- 1 Highlight Index in the Movie Menu bar.
- 2 Press ← or → to select Index, Slide Show, or File.
- 3 Select the desired option.

Option	Description	
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed movie.	
Slide Show	Displays the Slide Show Menu. For details, see “Slide Show Menu Options” on page 88.	
File	Protect	Allows you to protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off.
	Delete	Deletes the MPEG1 file from the Memory Stick. You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).

Memory Stick Index Menu Bar Options

Slide Show Menu Options

💡 The Slide Show Menu is the same whether you select it from the Memory Stick Index (page 81), Photo (page 83), or Movie (page 86) Menus.

💡 When you select **Complete List**, it may take a moment to display the list of all MP3 files.

💡 Some JPEG files may take longer to display than others, which may make it seem longer than the interval you selected for **Slide Advance**.

💡 You can also display file information using the **DISPLAY** button on the remote control.

The Slide Show Menu includes the following options:

Option	Description
Start	Starts the Slide Show.
Music	Allows you to select background audio to play during the Slide Show.
Off	No additional background audio is played during the Slide Show. Audio that is associated with the JPEG or MPEG1 files will play.
Play Memory Stick	Plays all MP3 files on the Memory Stick. The Piano MP3 file and any MP3 file playlists are not played.
Piano (built-in music)	Plays the MP3 file stored in the TV's internal memory.
Complete List...	Displays a list of all available MP3 files.
(List of MP3 Files and Playlists)	Displays a list of all MP3 files and MP3 file playlists found at the top level (root) of the Memory Stick. To show additional MP3 files stored in other folders on the Memory Stick, select Complete List .
Transition Effect	Allows you to select an effect to be used when advancing to the next file in the Slide Show.
Slide Advance	Allows you to specify when to advance to the next slide.
Fast	Slide advances after about 3 seconds.
Medium	Slide advances after about 6 seconds.
Slow	Slide advances after about 12 seconds.
Manual advance	Slide advances only after you press ◀ or ▶ .
File Information	Determines whether file information is shown when the file is displayed full screen. Select On or Off .
Repeat	On Slide Show continuously loops. Off Slide Show plays once through all files and ends.

Contents Menu Options

💡 The Rotate function does not change the file's modification date.

The Contents Menu includes the following options:

Option	Description
Select Folder	Allows you to select different folders to view in the Memory Stick Viewer.
Digital Camera Folders	Selects all folders within the directories defined by the DCF rules used by Sony digital cameras (see page 90). JPEG and MPEG1 files in those directories are recognized even if they do not conform to the DCF file naming rules.
Select a Folder	Allows you to access individual folders on the Memory Stick.
File Order	Allows you to change the order in which the Memory Stick files are displayed.
Date Order	Displays files in chronological order by modification date.
Date Order Reverse	Displays files in reverse chronological order by modification date.
Alphabetical	Displays files in alphabetical order by filename.
Filter	Allows you to selectively display specific file types within the selected folder.
Show Photos and Movies	Displays all readable files.
Show Photos Only	Displays only photo (JPEG) files.
Show Movies Only	Displays only movie (MPEG1) files.
Show All Print Marks	Displays all files that are marked for printing. For details, see “Photo Menu Bar Options” on page 84.

Memory Stick Menu

The Memory Stick Menu displays all files marked with the Print Mark feature, regardless of the currently selected folder.

Notes on Using Memory Stick Media

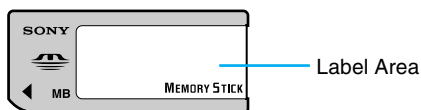
About DCF File Names

Most Sony brand digital still and video cameras automatically record still photo and movie files using DCF compliant directory and file names. If you selected the [Digital Camera Folders](#) option, as described on page 89, you might want to have your digital camera's instruction manual handy in order to check how files and directories are organized for your specific model of digital camera. DCF stands for "Design Rules for Camera File Systems," which are specifications established by the Japan Electronic Industry Development Association (JEIDA).

Memory Stick Precautions

When using Memory Stick media, follow these precautions:

- ☐ To avoid permanent damage to still image data, do not turn off the TV or remove Memory Stick media from the insertion slot while data is being read (as indicated by the Memory Stick indicator light being on).
- ☐ Avoid touching the terminal of Memory Stick media or bringing it into contact with a metal object.
- ☐ Do not drop, bend, or submit Memory Stick media to external shock.
- ☐ Do not disassemble or modify Memory Stick media.
- ☐ Avoid getting liquid on Memory Stick media.
- ☐ Apply labels only within the designated label area.










- ☐ To avoid permanent damage to still image data, do not use or store Memory Stick media in a location subject to:
 - ☐ High temperature (such as near a heater or inside a hot car)
 - ☐ High humidity
 - ☐ Direct sunlight
 - ☐ Corrosive substances
 - ☐ Magnetic fields
 - ☐ Excessive dust
 - ☐ Static electricity or electric noise
 - ☐ Electric surges
- ☐ Store and carry Memory Stick media in its original case to ensure protection of stored data.
- ☐ Save a backup of stored data.
- ☐ When using the Memory Stick DUO, insert it without using the Memory Stick DUO adaptor. For details, see page 79.

Using the Menus

Overview

The Menu gives you access to the following features:

Menu Icon	Description	Page
	The Video Menu allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing, select Advanced Video options, and more.	92
	The Audio Menu Offers enhanced audio options such as listening to second audio programming (SAP) or customizing the Effect of the sound on your TV.	95
	The Screen Menu allows you to make Screen Mode adjustments and make changes to the screen's vertical center and size.	97
	The Channel Menu allows you to set up a Favorite Channels list, run the Auto Program function, label channels, and more.	99
	The Parental Lock Menu lets you control the viewing of programs based on their ratings.	101
	The Setup Menu provides options for setting up your system, including selecting closed caption modes, labeling video inputs, selecting the language and color of the on-screen Menus, and more.	104
	The Applications Menu lets you display the Memory Stick Viewer, set on/off Timers, access CableCARD™ and diagnostics information, and more.	107

💡 Press **MENU** to enter and exit Menus.

Navigating Through Menus

To Do This ...	Press
Display the Menu	Press MENU .
Move through the Menus	Press ↑ ↓ ← → .
Select an option to change	Press Ⓢ .
Select (confirm) changed setting	Press Ⓢ or press ← .
Exit the Menu	Press MENU .

💡 Menus include help text that appears at the top of each Menu.



Using the Video Menu

To select the Video menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Video icon and press **⏏**.
- 3 Press **▲** **▼** **◀** **▶** to highlight an option. Press **⏏** to select an option.
- 4 Press **▲** **▼** **◀** **▶** to change settings. Press **⏏** to select the changed setting.
- 5 Press **MENU** to exit the Menu.



To restore the factory default settings for the Video settings:

- ☐ Press **RESET** on the remote control when in the Video menu.

Selecting Video Options

To change from one Mode to another, use **PICTURE** button on the remote control.

You can alter the Mode options (**Vivid**, **Standard**, **Pro**) for each video input (including the TV antenna input).

You can alter the Video menu settings (**Picture**, **Brightness**, **Color**, etc.) for each Mode.

To prevent image retention, do not use the **Vivid** mode for a long time.

The Video menu includes the following options:

Option	Description	
Picture Mode <i>Customized picture viewing</i>	Vivid	Select for enhanced picture contrast and sharpness.
	Standard	Select for standard picture settings. Recommended for home entertainment.
	Pro	Select for professional monitor like appearance settings.
Picture	Adjust to increase picture contrast and deepen the color, or decrease picture contrast and soften the color.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increase or decrease the green tones.	
Sharpness	Adjust to sharpen or soften the picture.	
Color Temp. <i>White intensity adjustment</i>	Cool	Select to give the white colors a blue tint.
	Neutral	Select to give the white colors a neutral tint.
	Warm	Select to give the white colors a red tint.

💡 **Direct Mode** is not available when watching 480p or 720p sources.

💡 **DRC Mode** and **DRC Palette** are not available when watching 480p or 720p sources or Twin View. Also not available when **Direct Mode** is set to **On**, **Game Mode** is set to **On**, or using Memory Stick.

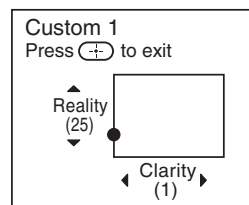
💡 **DRC Palette** is not available when **Direct Mode** is set to **On**, **Game Mode** is set to **On** or using Twin View.

💡 For best results, adjust the Reality by pressing **↑ ↓** until you are satisfied with the level of detail. Then adjust the Clarity by pressing **← →** until you have a smooth image.

Option	Description	
Noise Reduction	Select to reduce the noise level of connected equipment. It is also effective on the signal from the VHF/UHF jack. Select from High , Medium , Low and Off .	
Direct Mode	On	Select for a natural, soft picture.
	Off	Select to turn off the Direct Mode .
Game Mode	On	Select to optimize the lipsync when playing games.
	Off	Select to turn off the Game Mode .
Advanced Video	Select Program to choose among the options described below.	
	DRC Mode	Creates a high-resolution picture with 4x density, for high quality sources (i.e., DVD player, satellite receiver).
	Mode1	Recommended for moving pictures.
	Mode2	Recommended for still images and text.
	CineMotion	Provides an optimized display by automatically detecting film content and applying a reverse 3-2 pulldown process. Moving pictures will appear clearer and more natural-looking.

DRC Palette Allows you to customize the level of detail (Reality) and smoothness (Clarity) for up to three input sources. For example, you can create one Custom setting to optimize your cable input's picture, and create another to optimize your DVD player's picture. You can switch among the three Custom settings in the menu.


- 1 Press **↑ ↓ ← →** to highlight **Custom 1**, **Custom 2**, or **Custom 3** and then press **⊕**. The DRC palette appears.



- 2 Press **↑ ↓ ← →** 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 **⊕**.

To return the Custom options to the default factory settings, press **RESET**.

(Continued)

 **BN Smoother** is not available when watching 480p, 720p, and 1080i sources, or using Memory Stick or Twin View.

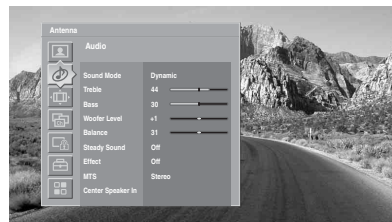
Option	Description	
Advanced Video (continued)	BN Smoother	Select to reduce the block noise caused by digital video encoding and decoding process. It is especially effective for watching a DVD or digital TV pictures. Select from High, Medium, Low and Off.
	Color Corrector	Select to emphasize the red and blue colors. Select High, Low or Off.
	DTE	Select to enhance texture of the picture. Select from High, Medium, Low and Off.



Using the Audio Menu

To select the Audio menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Audio icon and press **ENTER**.
- 3 Press **▲** **▼** **◀** **▶** to highlight an option. Press **ENTER** to select an option.
- 4 Press **▲** **▼** **◀** **▶** to change settings. Press **ENTER** to select the changed setting.
- 5 Press **MENU** to exit the Menu.



To restore the factory default settings for Treble, Bass, and Balance

- Press **RESET** on the remote control when in the Audio menu.

Selecting Audio Options

💡 **Treble** and **Bass** are not available when **Dynamic** or **Clear Voice** is selected in **Sound Mode**.

💡 **Steady Sound** is not available when **Effect** is set to **TruSurround** or **Simulated**.

The Audio menu includes the following options:

Option	Description
Sound Mode	Dynamic Select to enhance treble and bass.
Customized picture viewing	Clear Voice Suitable for spoken dialogue.
	Custom Flat setting.
Treble	Adjust to decrease or increase higher-pitched sounds.
Bass	Adjust to decrease or increase lower-pitched sounds.
Woofer Level	Adjust to decrease or increase woofer sound level.
Balance	Adjust to emphasize left or right speaker balance.
Steady Sound	Auto Select to stabilize the volume.
	Off Select to turn off Steady Sound .
Effect	TruSurround Select for surround sound (for stereo programs only).
	Simulated Adds a surround-like effect to mono programs.
	Off Select for normal stereo or mono reception.
MTS <i>Enjoy stereo, bilingual and mono programs</i>	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.
	Mono Select for mono reception. Use to reduce noise during weak stereo broadcasts.

(Continued)

Option	Description	
Center Speaker In	Select the video input (TV, Video 1-6) you want to use the TV's speakers as the center speaker.	
Phase	This option can be set when the Center Speaker In option is set to ON . Select Reverse , if the sound from the TV's speaker (as the center speaker) sounds unnatural. The default setting is Normal .	
Audio Out <i>Easy control of volume adjustments</i>	This option can be set only when the Speaker option is set to Off .	
	Variable	The TV's speakers are turned off, but the audio output from your audio system can still be controlled by the TV's remote control.
	Fixed	The TV's speakers are turned off and the audio output of the TV is fixed. Use your audio receiver's remote control to adjust the volume (and other audio settings) through your audio system.
Speaker	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio receiver and speakers.



Using the Screen Menu

To select the Screen menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to move to the Screen icon and press **○**.
- 3 Press **▲** or **▼** to move to an option. Press **○** to select an option.
- 4 Press **←** or **→** to change settings. Press **○** to select the changed setting.
- 5 Press **MENU** to exit the menu.



Selecting Screen Options

💡 To change from one Wide Mode option to another, use **WIDE** on the remote control.

💡 **Wide Zoom** is recommended for 4:3 picture to prevent image retention.

💡 For **Wide Zoom** and **Zoom** modes, you can adjust the vertical position and size of the picture. For details, see page 98.

💡 The **Game Picture** feature is useful if the TV is connected to game equipment.

The Screen menu includes the following options:

Option	Description
Wide Mode <i>Select a Wide Mode to use for 4:3 sources.</i>	Wide Zoom Select to enlarge to fill screen with minimum distortion. Normal Select to display 4:3 picture in original size when the original source is 4:3 (Standard definition source). Full Select to enlarge the original 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.
Game Picture	Allows you to move the position of the picture left and right in the window. This function allows for horizontal adjustment of the picture being displayed.

(Continued)

- 💡 **4:3 Default** functions only when the TV receives 480i or 480p signals.
- 💡 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. To retain the current **Wide Mode** setting as channels and inputs are changed, set **4:3 Default** to **Off**.
- 💡 **All White** function finishes automatically after 30 minutes. If image retention is still present, repeat the function again.
- 💡 To cancel **All White** and return to normal viewing, press any button on the remote control.
- 💡 Once image retention occurs, it may become less conspicuous over time but it will never completely disappear. (See page 1 for more information on Image Retention.)

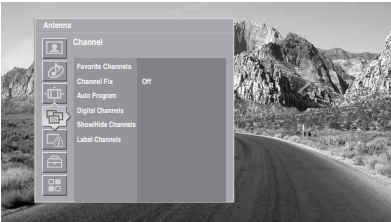
Option	Description	
4:3 Default <i>Select the default Screen Mode to use for 4:3 sources</i>	Wide Zoom	Select to enlarge the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.
	Normal	Select to return the 4:3 picture to its original size.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the 16:9 screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the 16:9 screen. Useful for watching Letterbox movies.
	Off	Select to continue using the current Wide Screen Mode setting when the channel or input is changed.
Overscan	Normal	Displays a standard size picture.
	+1/+2	Allows you to adjust the viewable area of the picture.
Vertical Center	Allows you to move the position of the picture up and down in the window. Available only in Wide Zoom and Zoom modes. Press ▲ or ▼ and press ⏮ to choose a correction between +10 and -10 (Zoom mode), and +10 and -10 (Wide Zoom mode).	
Vertical Size	Allows you to adjust the vertical size of the picture. Available only in Wide Zoom and Zoom modes. Press ▲ or ▼ and press ⏮ to choose a correction between +10 and -10.	
Screen Saver	Orbit	Moves the picture position to reduce image retention. This does not prevent image retention completely if the same picture is displayed for an extended period of time.
	All White	Displays a white screen to reduce image retention.



Using the Channel Menu

To select the Channel menu


- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Channel icon and press **⏏**.
- 3 Press **▲▼◀▶** to highlight an option. Press **⏏** to select an option.
- 4 Press **▲▼◀▶** to change settings. Press **⏏** to select the changed setting.
- 5 Press **MENU** to exit the Menu.



Selecting Channel Options

The Channel menu includes the following options:

Option	Description	
Favorite Channels	Lets you set up a list of your favorite channels. For details, see “Using Favorite Channels” on page 72.	
Channel Fix	Off	Turns off Channel Fix .
<i>Useful when you have a cable box or a satellite receiver connected</i>	2-6, C2-C6	“Fix” your TV’s channel setting to 2-6 (VHF/UHF input) or C2-C6 (Cable input) and use the cable box or the satellite receiver to change channels.
	Video 1, 4	Use this setting if you have connected the equipment to the A/V input jacks.
Auto Program	Automatically sets up the channel list on the TV for all receivable channels.	
Digital Channels	Add	Select to add digital channels.
Show/Hide Channels	Allows you to show or hide channels that appear when you use the CH+/- buttons.	
	1	Press ▲ or ▼ to scroll through the channels until you find the channel you want to show or hide. Then press ⏏ to select it.
	2	Press ▲ or ▼ to determine if the channel will be shown or hidden.
	3	To show or hide more channels, repeat steps 1 and 2.
	4	Press ◀ to return to the Channel menu, or press MENU to exit the Menus.

 Channels that you set to be hidden can be accessed only with the **0-9** buttons.

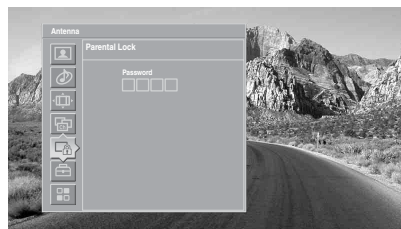
(Continued)

Option	Description
Label Channels	<p>Allows you to assign labels (such as station call letters) to channel numbers.</p> <ol style="list-style-type: none"> Press ▲ ▼ to scroll through the channel numbers. Then press ⏏ to select the channel number that you want to assign a label. Press ▲ ▼ ◀ ▶ to highlight Label and press ⏏. Press ▲ ▼ to scroll through the label characters (A-Z, 0-9, etc.). Then press ⏏ to select the highlighted character. Repeat to add up to 5 characters to the label. To assign labels to more channels, repeat steps 1-3. Press ▶ to return to the Channel menu, or press MENU to exit the Menus.




Using the Parental Lock Menu

The Parental Lock menu allows you to set up the TV to block programs according to their content and rating levels.





To select the Parental Lock menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Parent icon and press **⊕**.
- 3 Use **0-9** on the remote control to enter a four-digit password.
- 4 If this is the first time you are creating this password, confirm the password by entering it again. The Parental Lock menu options appear.
- 5 Press **▲ ▼ ◀ ▶** to change settings. Press **⊕** to select the changed setting.
- 6 Press **MENU** to exit the Menu.

 **You need your password for any future access into the Parental Lock Menu. If you lose your password, see “Lost password” on page 117.**

Selecting Parental Lock Options

 If you are not familiar with the Parental Guideline rating system, you should select **Child**, **Youth**, or **Y. Adult** to help simplify the rating selection. To set more specific ratings, select **Custom**.

 For descriptions of **Child**, **Youth**, and **Y. Adult** ratings, see page 102.

The Parental Lock menu includes the following options:

Option	Description
Parental Lock	Off Parental lock is off. No programs are blocked from viewing.
<i>Turn ratings on/off and select a rating system</i>	Child Maximum ratings permitted are: <input type="checkbox"/> US: TV-Y, TV-G, G <input type="checkbox"/> Canada: C, G, TV-Y
	Youth Maximum ratings permitted are: <input type="checkbox"/> US: TV-PG, PG <input type="checkbox"/> Canada: C8+, PG, 8 ans+, TV-PG
	Y. Adult Maximum ratings permitted are: <input type="checkbox"/> US: TV-14, PG-13 <input type="checkbox"/> Canada: 14+, 13 ans+, TV-14
	Custom Select to set ratings manually. <input type="checkbox"/> US: See page 102 for details. <input type="checkbox"/> Canada: See page 103 for details.
Change Password	For changing your password.
Select Country	U.S.A. Select to use USA ratings (see page 102). Canada Select to use Canadian ratings (see page 103).

US Models:
Selecting Custom
Rating Options

- 💡 The Content-Based Ratings are linked to the level of the Age-Based Rating. For example, a program with an Age-Based Rating of **TV-PG V** (Violence) rating may contain moderate violence, while a **TV-14 V** (Violence) rating may contain more intense violence.
- 💡 To ensure maximum blocking capability, set the Age-Based Ratings.
- 💡 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.

Viewing Blocked
Programs

For US models, the Custom Rating menu includes the following options. For Canadian models, see page 103.

Option	Description	
Movie Rating	G	All children and General Audience.
	PG	Parental Guidance suggested.
	PG-13	Parental Guidance for children under 13.
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17 and X	No one 17 or under allowed.
TV Rating	Age-Based Ratings	
<i>Block programs by their rating, content or both</i>	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.
Unrated	Allow	Allows programs and movies that are broadcast without a rating.
	Block	Blocks all programs and movies that are broadcast without a rating.

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

Canadian Models: Selecting Custom Rating Options

For Canadian models, the Custom Rating menu includes the following options. For US models, see page 102.

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 “US Models” on page 102 for details.	

Viewing Blocked Programs

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



Using the Setup Menu

To select the Setup menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Setup icon and press **↵**.
- 3 Press **▲** **▼** **◀** **▶** to highlight an option. Press **↵** to select an option.
- 4 Press **▲** **▼** **◀** **▶** to change settings. Press **↵** to select the changed setting.
- 5 Press **MENU** to exit the Menu.





💡 To move from within one Menu to the main Menu of icons, press **◀**.

Selecting Setup Options

The Setup menu includes the following options:

Option	Description
Caption Vision	Allows you to select from several closed caption modes (for programs that are broadcast with closed caption).
On	Caption Vision is turned on.
Off	Caption Vision is turned off.
Program	Allows you to set basic and advanced Caption Vision options. See “Programming Caption Vision” on page 106.
Info Banner	Set to On or Off . When on, displays the program name, time remaining and other information (if the broadcaster offers this service). Displays when the channel is changed or the DISPLAY button is pressed.

Option	Description						
Label Video Inputs	<p>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 4 jack, you can select the label DVD for the VIDEO 4 input. Then when you press TV/VIDEO to change inputs, the Video Label you assigned to that input appears on screen.</p> <ol style="list-style-type: none"> Press ▲ or ▼ to highlight the video input (VIDEO 1-6) to which you want to assign a label. Then press ⏏ to select the input. Press ▲ or ▼ to highlight one of the displayed labels. Then press ⏏ to select the label. <p>You can select from the following labels for each input:</p> <table> <tr> <td>Video 1-3</td><td>Video 1-3, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta, Skip</td></tr> <tr> <td>Video 4-6</td><td>Video 4-6, DVD, Satellite, Cable Box, DTV, HD, Game, PVR, Skip</td></tr> </table> <p> If you select Skip, your TV skips this input when you press the TV/VIDEO button.</p>	Video 1-3	Video 1-3, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta, Skip	Video 4-6	Video 4-6, DVD, Satellite, Cable Box, DTV, HD, Game, PVR, Skip		
Video 1-3	Video 1-3, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta, Skip						
Video 4-6	Video 4-6, DVD, Satellite, Cable Box, DTV, HD, Game, PVR, Skip						
Language	Select to display all on-screen Menus in your language of choice.						
Menu Color	Enables you to select a specific color for the on-screen menus.						
Illuminated	<p>Allows you to illuminate the Sony logo on the front panel of the TV.</p> <table> <tr> <td>Yes</td><td>Illuminates the Sony logo while the power is turned on.</td></tr> <tr> <td>No</td><td>Illuminates the Sony logo when you switch the power to on or off.</td></tr> </table>	Yes	Illuminates the Sony logo while the power is turned on.	No	Illuminates the Sony logo when you switch the power to on or off.		
Yes	Illuminates the Sony logo while the power is turned on.						
No	Illuminates the Sony logo when you switch the power to on or off.						
Power Saving	<table> <tr> <td>Standard</td><td>Select to view picture without the benefit of Power Saving.</td></tr> <tr> <td>Reduced</td><td>Select to view picture with reduced power consumption. It also enhances the black level.</td></tr> <tr> <td>Picture Off</td><td>Select to turn off the picture.</td></tr> </table>	Standard	Select to view picture without the benefit of Power Saving .	Reduced	Select to view picture with reduced power consumption. It also enhances the black level.	Picture Off	Select to turn off the picture.
Standard	Select to view picture without the benefit of Power Saving .						
Reduced	Select to view picture with reduced power consumption. It also enhances the black level.						
Picture Off	Select to turn off the picture.						

 The **Skip** label is useful for inputs to which no equipment is connected.

Programming
Caption Vision

If you selected the [Program](#) option under [Caption Vision](#) (see page 104), you can change the following settings:

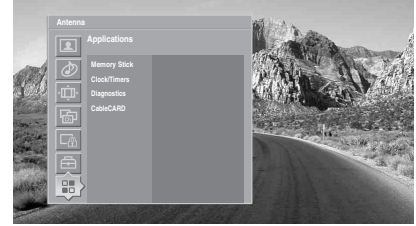
Option	Description	
Basic	Allows you to select basic analog (EIA-608) closed caption options.	
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)
	Text1, Text2, Text3, Text4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1 .
Advanced	Allows you to select advanced digital (EIA-708) closed caption options. Select from the available options.	
Digital CC	Allows you to select digital closed captioning to Basic (digital EIA-608) or Advanced (digital EIA-708).	
Advanced Settings	Allows you to make additional settings for digital (EIA-708) closed caption options.	
	As Broadcast	The closed caption letters are shown as they are broadcasted.
	Small Text	The closed caption letters are shown in small letters.
	Large Text	The closed caption letters are shown in large letters.
	Custom ...	Allows you to customize the following settings:
	Character Size	Small, Standard, Large
	Character Style	Style 1-7
	Character Color	Color 1-8
	Edge Color	Color 1-8
	Edge Type	None, Raised, Depressed, Outline, Left shadow, Right shadow
	Background Color	None, Color 1-8
	Window Color	None, Color 1-8



Using the Applications Menu

To select the Applications menu

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to highlight the Applications icon and press **⏏**.
- 3 Press **▲** **▼** **◀** **▶** to highlight an option. Press **⏏** to select an option.
- 4 Press **▲** **▼** **◀** **▶** to change settings. Press **⏏** to select the changed setting.
- 5 Press **MENU** to exit the Menu.





Selecting Applications Options



The Applications Menu includes the following options:












Option	Description
Memory Stick	Displays the Memory Stick Viewer. For details, see page 75.
Clock/Timers	Select to set the clock, set the Sleep timer, and to program your TV to turn on and off at two scheduled viewing times.
Sleep	Set the time in minutes (15minutes , 30minutes , 45minutes , 60minutes , 90minutes , or Off) that you want the TV to remain on before shutting off automatically.
Timer 1 Timer 2	You can use the Timers to program the TV to turn on and off and tune to a specific channel at two scheduled viewing times.
Timer 1 and Timer 2 are not available to be set until you set the Current Time.	
1	Press ▲ or ▼ to highlight Timer 1 or Timer 2 . To set the timer, press ▶ .
2	Press ▲ or ▼ to highlight one of the following options, then press ⏏ .
Program	Select to set the Timer by day, time, duration, and channel.
Off	Select to turn off the Timer. (Your previous settings are saved.)

💡 To go directly to programming Timer 1 or 2, press **⏏** instead of **▶**.

(Continued)

 To return to the Timer Menu after programming one of the Timers, press  when the highlight is in the channel number field.

 To return to the Timer Menu after setting the **Current Time**, press  when the highlight is in the minute field.

Option	Description
3	If you selected Program in step 2, press  and  to set the day(s), hour, minute, duration, and channel number. Press  or  to confirm each setting and move to the next setting. Press  to go back to the previous setting.
4	Press MENU to exit the Menu. An LED on the front panel will light, indicating the timer has been set.
Current Time	Select to set the current time (day, hour, minute, and AM/PM).
1	Press  to select Current Time .
2	Press  and  to set the current time (day, hour, minute, and AM/PM). Press  or  to confirm each setting and move to the next setting. Press  to go back to the previous setting.
3	Press MENU to exit the Menu.
Diagnostics	Displays diagnostics information about the TV. This can be useful in providing information to an authorized technician or repair person.
CableCARD	This list of selectable CableCARD options will vary, depending on your cable service provider.

Other Information

Overview

This chapter includes the following topics:

<i>Topic</i>	<i>Page</i>
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Contacting Sony	111
Troubleshooting	111
Specifications	118
Optional Accessories	120
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Glossary

analog signal

A signaling method that uses continuous changes in the amplitude or frequency of an electronic transmission to convey information.

aspect ratio

Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.

4:3 aspect ratio



16:9 aspect ratio



CableCARD™

The PCMCIA shaped card provided by your cable TV company which descrambles the digitally encrypted cable channels. You should check with your local cable TV company about CableCARD™ service.

component video



Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S VIDEO by splitting chrominance into two separate portions.

composite video



Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.

digital television (DTV)

A new technology for transmitting and receiving broadcast television signals. DTV provides clearer resolution and improved sound quality over analog television.

HDMI (High-Definition Multimedia Interface)

Provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.

National Television System Committee (NTSC)

A unit of the Federal Communications Commission, Washington, DC, that establishes television standards in the United States, such as NTSC Color, the standard used in this TV.

RF

Radio Frequency. That part of the frequency spectrum that is used to transmit TV and radio signals.

S VIDEO



S VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S VIDEO provides better resolution than composite video, which carries the signals together.

VHF/UHF

VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.

480i

Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.

480p

Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.

- 720p** Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
- 1080i** Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (US residents only) or (416) 499-SONY (7669) (Canadian residents only).

Before calling Sony customer support, please write down the model and serial numbers of your TV. You'll find this information on the front cover of this manual.

Troubleshooting

Twin View

Problem	Possible Remedies
I cannot get Twin View to work	<ul style="list-style-type: none"> ❑ If you are using a cable box to unscramble all channels (as shown on page 26), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time. But if you need the cable box to unscramble only some (usually premium) channels, you can use Twin View for unscrambled channels if you connect both a cable and cable box, as shown on page 25. ❑ You can use Twin View to view a signal from a different source that is connected to the TV's A/V jacks (such as a VCR or DVD player) in the second window by pressing the TV/VIDEO button while in Twin View. ❑ Digital sources, as well as any sources connected to the VIDEO 4, VIDEO 5, VIDEO 6 inputs, display in the left window, but not in the right windows.
There is no Twin View window, or it is just static	<ul style="list-style-type: none"> ❑ Be sure the Twin View window is set to a video input or channel that has a signal airing. ❑ You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing the TV/VIDEO button.
Twin View cannot display anything but TV channels	<ul style="list-style-type: none"> ❑ Try cycling through the video inputs by pressing the TV/VIDEO button. Check that the Label Video Inputs option is not set to Skip. (See the Setup Menu on page 105.)
Twin View displays the same program in both windows	<ul style="list-style-type: none"> ❑ Both Twin View windows might be set to the same channel. Try changing channels in either window.

Remote Control

Problem	Possible Remedies
Remote control does not operate	<ul style="list-style-type: none"> <input type="checkbox"/> The batteries could be weak. Replace the batteries. <input type="checkbox"/> Check the orientation of the batteries. <input type="checkbox"/> Press the TV (FUNCTION) button. You may have inadvertently pressed the SAT/CABLE (FUNCTION) button, which changes the remote control to SAT or CABLE mode. <input type="checkbox"/> Make sure the TV's power cord is connected securely to the wall outlet. <input type="checkbox"/> Locate the TV at least 3-4 feet away from fluorescent lights.
Cannot change channels with the remote control	<ul style="list-style-type: none"> <input type="checkbox"/> If you are using the TV to change channels, first press the TV (FUNCTION) button. <input type="checkbox"/> If you are using another device to change channels, be sure you have not inadvertently switched your TV from the channel 3 or 4 setting. Use the Channel Fix option to "fix" the channel based on the hookup you used (see page 99). <input type="checkbox"/> If you are using another device to change channels, be sure to press the FUNCTION button for that device. For example, if you are using your cable box to change channels, be sure to press the SAT/CABLE (FUNCTION) button.
Remote control does not operate non-Sony video equipment	<ul style="list-style-type: none"> <input type="checkbox"/> If you replaced the batteries to the remote recently, the code numbers for the video equipment may need to be reset. <input type="checkbox"/> There may be more than one code for the equipment that you are attempting to operate. <input type="checkbox"/> There is a possibility that some non-Sony equipment cannot be operated by your Sony TV remote. You may need to use the equipment's original remote control.

CableCARD™





Problem	Possible Remedies
Problems using CableCARD™ or CableCARD™ services	<ul style="list-style-type: none"> <input type="checkbox"/> Check that the CableCARD™ is inserted properly (see page 51). <input type="checkbox"/> The CableCARD™ must be activated by your local cable TV provider before you can receive digital cable TV services. See the activation instructions on page 51. <input type="checkbox"/> Check the Diagnostics and CableCARD™ menu options (see page 108). (This can be useful in providing information to an authorized technician or repair person.) <input type="checkbox"/> Contact your cable TV provider.

Channels

Problem	Possible Remedies
Cannot receive upper channels (UHF) when using an antenna	<ul style="list-style-type: none"> ❑ Press ANT to select the VHF/UHF input (see page 57). ❑ Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 99).
TV is fixed to one channel	<ul style="list-style-type: none"> ❑ Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 99). ❑ Check your Channel Fix settings (see page 99).
Cannot receive any channels when using cable TV	<ul style="list-style-type: none"> ❑ Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 99). ❑ Press ANT to select the CABLE input (see page 57).
Cannot receive or select channels	<ul style="list-style-type: none"> ❑ Use Auto Program in the Channel Menu to add receivable TV channels that are not presently in TV memory (see page 99).
Some digital cable channels are not being displayed	<ul style="list-style-type: none"> ❑ Certain cable TV companies have limitations on the broadcast of digital cable channels. Check with your cable TV company for more information. ❑ Check with your cable TV company if the channels are scrambled or encrypted. You will need a CableCARD or a separate set-top box to view those channels. ❑ Some optional digital cable broadcast formats may not be supported. If your cable TV company is broadcasting digital signals in unsupported broadcast formats, you will need a separate set-top box provided by your cable TV company to view those channels. ❑ The digital cable channel may be set to Hide in the Channel Menu (see page 99). ❑ Use the Digital Channels feature to search for new digital channels (see page 99).

Memory Stick

Problem	Possible Remedies
Image does not display/Cannot see all files	<ul style="list-style-type: none"> ❑ Make sure the image file is a JPEG (.jpg, .jpeg) file or an MPEG1 (.mpg, .mpeg) file. ❑ Make sure the Memory Stick is inserted properly (see page 78). ❑ Check the Filter option setting (see page 89). ❑ Check the Select Folder setting (see page 89) and ensure that files are either in DCF directories if Digital Camera Folders is selected (see page 89), or in the currently selected folder if Select a Folder is selected (see page 89). ❑ The maximum number of files the Memory Stick Viewer can display is 2,000 files total, including all JPEG, MPEG1, and MP3 files. ❑ If you are using a Memory Stick with the Memory Select function, try changing the position of the A/B select switch.
JPEG image displays undesirable motion or flicker in full screen	<ul style="list-style-type: none"> ❑ JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.
Rotation not saved after Memory Stick is ejected or Memory Stick Viewer is closed	<ul style="list-style-type: none"> ❑ The Memory Stick might be locked. Unlock the Memory Stick and try rotating the image again. ❑ The file might not have information (EXIF data) that is usually generated when a digital camera records a photo. In this case, it is not possible to save the rotation. ❑ There might be insufficient space on the Memory Stick to save the rotated file. Try deleting one or more files and rotating the image again.
Cannot show (or hide) file information in full screen or Slide Show	<ul style="list-style-type: none"> ❑ Set the File Information option to On or Off (see page 88).
Cannot set print quantity	<ul style="list-style-type: none"> ❑ The Memory Stick might be locked. Unlock the Memory Stick and try rotating the image again.
Cannot see Menu	<ul style="list-style-type: none"> ❑ Press ▲ to display the Menu again.
Cannot hear audio while using Memory Stick	<ul style="list-style-type: none"> ❑ Check the TV's volume or Speaker (page 96) settings. ❑ To hear JPEG voice memo in full screen view, select the Digital Camera Folders option and set the Filter option to Show All Print Marks. ❑ Check that the Music option is not set to Off (see page 88).
Not all MP3 files on Memory Stick are included when the Music/Complete List option is selected (page 88)	<ul style="list-style-type: none"> ❑ The Memory Stick Viewer can display a maximum of 2,000 files total, including all JPEG, MPEG1, and MP3 files. ❑ Make sure that the file is named with the file extension (.mp3).
Cannot see MP3 list to play music	<ul style="list-style-type: none"> ❑ MP3 files on your Memory Stick only can be played as background music during a Slide Show (see page 88).
MP3 file does not play back correctly	<ul style="list-style-type: none"> ❑ The Memory Stick Viewer supports only MP3 files with a fixed data rate of 128 kbps (kilobits per second).
MP3 files on the Memory Stick are not listed	<ul style="list-style-type: none"> ❑ Only MP3 files that are named with the file extension (.mp3) are displayed in the list.
Music files are playing in wrong order	<ul style="list-style-type: none"> ❑ MP3 files are played in alphabetical order, according to the folder in which they are stored. If you want to change the playlist order, rename your files alphabetically in the order in which you want them to play.
MPEG1 movie does not play back correctly	<ul style="list-style-type: none"> ❑ Some variations of MPEG1 movies may not be compatible with the Memory Stick Viewer. ❑ MPEG movies recorded in VX Fine mode with Sony digital cameras cannot be played back with the Memory Stick Viewer.

Problem	Possible Remedies	
MPEG1 quality is poor when enlarged (page 86)	<input type="checkbox"/>	The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera's instruction manual for details.
Error message is displayed	<input type="checkbox"/>	No Memory Stick There is no Memory Stick in the slot.
	<input type="checkbox"/>	Memory Stick Locked The lock mechanism on the Memory Stick is engaged.
	<input type="checkbox"/>	Memory Stick Error The Memory Stick in the slot might be damaged; try a different Memory Stick.
	<input type="checkbox"/>	Format Error The Memory Stick may have been formatted using a PC or other device that is not compatible with cameras.
Error icon is displayed		The file is not a valid MPEG1 or JPEG format, or it is a progressive JPEG (which is not supported).
		The thumbnail is not DCF-compatible.
		The file is a JPEG or an MPEG1, but the thumbnail is unreadable.
		The file is unreadable.

Audio

Problem	Possible Remedies	
Good picture, no sound	<input type="checkbox"/>	Press MUTING so that the word Muting disappears from the screen (see page 56).
	<input type="checkbox"/>	Make sure the Speaker option is set to On in the Audio Menu (see page 96).
	<input type="checkbox"/>	Make sure the MTS option is set to Stereo or Mono (see page 95).
Cannot gain enough volume when using a cable box	<input type="checkbox"/>	Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the TV's volume.
Sound seems weak or insufficient	<input type="checkbox"/>	The TV's audio might be set to Auto SAP or Mono , when it might be better set to Stereo . In the Audio Menu (see page 95), set the MTS setting to Stereo . If already set to Stereo , switch to Mono (which may reduce background noise during weak stereo broadcasts).
Cannot raise the volume on external audio speakers	<input type="checkbox"/>	If the Speaker option is set to Off and the Audio Out option is set to Fixed (in order to output the sound to your audio system) use your audio receiver to adjust the sound (see page 96). Or, to use the TV remote control, set the Audio Out option to Variable .
	<input type="checkbox"/>	To turn on the TV speakers, set the Speaker option to On (see page 96).

Video

Problem	Possible Remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none"> ❑ If your TV does not turn on, and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. ❑ Make sure the power cord is plugged in. ❑ Press the POWER button on the right side of the TV. ❑ Press the TV/VIDEO button to cycle through the connected video sources. ❑ Try another channel; it could be station trouble.
Dark, poor or no picture (screen lit), good sound	<ul style="list-style-type: none"> ❑ Adjust the Picture option in the Video Menu (see page 92). ❑ Adjust the Brightness option in the Video Menu (see page 92). ❑ Check the antenna/cable connections.
No color./Dark picture./Color is not correct.	<ul style="list-style-type: none"> ❑ Press the PICTURE (MODE) button to select the desired Picture mode (see page 56). ❑ Adjust the Color option in the Video Menu (see page 92).
Only snow and noise appear on the screen	<ul style="list-style-type: none"> ❑ Check the antenna/cable connections. ❑ Try another channel; it could be station trouble. ❑ Press ANT to change the input mode (see page 57).
Dotted lines or stripes	<ul style="list-style-type: none"> ❑ Adjust the antenna. ❑ Move the TV away from noise sources such as cars, neon signs, or hair-dryers.
Double images or ghosts	<ul style="list-style-type: none"> ❑ Using a highly directional outdoor antenna or a cable may solve the problem.
Striped noise during playback/recording of a VCR	<ul style="list-style-type: none"> ❑ Video head interference. Keep your VCR away from the TV. ❑ Leave a space of 30 cm (11 7/8 inches) between your VCR and the TV to avoid noise. ❑ Avoid installing your VCR in front of the TV or at the side of the TV.
Image left on screen	<ul style="list-style-type: none"> ❑ Perform image retention recovery. (see page 98) ❑ Use the Screen Saver function (see page 98).
The screen flickers when turning on the TV.	<ul style="list-style-type: none"> ❑ This is caused by feature of the Plasma Display Panel, and does not indicate a malfunction of the TV.
“Black box” on screen	<ul style="list-style-type: none"> ❑ You have selected a text option in the Setup Menu and no text is available. (See page 104 to reset Setup selections.) To turn off this feature, set the Caption Vision option to Off. If you were trying to select closed captioning, select CC1 instead of TEXT 1-4.
Bars appear at the top and bottom of the screen	<ul style="list-style-type: none"> ❑ Some wide-screen programs are filmed in aspect ratios that are greater than 16:9, such as 2.35:1. (This is especially common with theatrical releases). Your TV will show these programs with bars at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).
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"> ❑ 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. Adjust the reality/clarity in the DRC Palette option (see page 93) to optimize the picture while viewing these sources.

General

Problem	Possible Remedies
How to reset TV to factory settings	<input type="checkbox"/> Turn on the TV. While holding down the RESET button on the remote control, press the POWER button on the right side of the TV. (The TV will turn itself off, then back on again.) Release the RESET button.
How to restore Video settings to factory settings	<input type="checkbox"/> Press the RESET button on the remote control while in the Video Menu (see page 92).
How to restore Audio settings to factory settings	<input type="checkbox"/> Press the RESET button on the remote control while in the Audio Menu (see page 95).
Cannot cycle through the other video equipment connected to the TV	<input type="checkbox"/> Be sure the Label Video Inputs option is not set to Skip (see page 105).
Cannot operate Menu	<input type="checkbox"/> If a Menu option appears in gray, this indicates that the TV is in a state in which the Menu option is not available.
Lost password	<input type="checkbox"/> In the password screen (see page 101), enter the following master password: 4357 . The master password clears your previous password; it cannot be used to temporarily unblock channels.
TIMER LED on front panel is lit	<input type="checkbox"/> The LED (see page 16) blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service. When lit, indicates that the timer is set (page 107). When the timer is set, this LED will remain lit even when the TV is turned off.
Digital cable box does not work	<input type="checkbox"/> If you are connecting a VCR and digital cable box using a splitter, as described on page 32, you must use a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable TV company for details.
Cannot record digital channels to VCR	<input type="checkbox"/> Only analog channels can be recorded to your VCR.

Specifications

Panel System	Plasma Display panel	
Display resolution	KDE-37XS955	1024 pixels (horizontal) × 1024 pixels (vertical)
	KDE-42XS955	1024 pixels (horizontal) × 1024 pixels (vertical)
	KDE-50XS955	1365 pixels (horizontal) × 768 pixels (vertical)
Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC	American TV Standard
	ATSC (8VSB terrestrial)	ATSC compliant 8VSB
	QAM on cable	ITU-T J.83 Annex B compliant 64/256 QAM
Channel Coverage	Terrestrial (analog)	2-69
	Cable TV (analog)	1-125
	Terrestrial (digital)	2-69
	Cable TV (digital)	1-135
Power Requirements	120V, 60 Hz	
Inputs/Outputs		
HDMI IN	Video	1080i, 720p, 480p, 480i
	Audio	Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits
Video (IN)	3 total (1 on left side panel)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3 total (1 on left side panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	5 total (1 on left side panel)	500 mVrms (100% modulation) Impedance: 47 kilohm
Component Video Input	2 (Y, PB, PR)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative; PB: 0.7 Vp-p, 75 ohms PR: 0.7 Vp-p, 75 ohms
CONTROL S (IN)	1	Mini jack
CONTROL S (OUT)	1	Mini jack
Digital Audio Optical Output (PCM/Dolby Digital)	1	Optical rectangular (1)
Variable/Fixed Audio (OUT)	1	More than 408 mVrms at the maximum volume setting (Variable) More than 408 mVrms (Fixed) Impedance (output): 2 kilohms
Sub woofer (OUT)	1	Phono jack
CableCARD™ slot	PCMCIA Type I/II	
Screen Size (measured diagonally)	KDE-37XS955	37 inches
	KDE-42XS955	42 inches
	KDE-50XS955	50 inches
Speaker Output	25 W × 2 + 50 W woofer	
CENTER SPEAKER IN	Max. 180 W (6 Ω), 1 kHz, Sensitivity 30 Vp-p	
Dimensions (W × H × D)	KDE-37XS955	1048 × 679 × 360 mm (41 3⁄8 × 26 3⁄4 × 14 1⁄4 in)
	KDE-42XS955	1139 × 752 × 360 mm (44 7⁄8 × 29 5⁄8 × 14 1⁄4 in)
	KDE-50XS955	1336 × 870 × 360 mm (52 5⁄8 × 34 3⁄8 × 14 1⁄4 in)

Mass	KDE-37XS955	51.0 kg (112 lb 7 oz)
	KDE-42XS955	56.5 kg (124 lb 9 oz)
	KDE-50XS955	68.0 kg (149 lb 14 ⁵ / ₈ oz)
Power Consumption	In Use	KDE-37XS955: 350 W KDE-42XS955: 385 W KDE-50XS955: 450 W
	In Standby	0.5 W
	CableCARD Standby	KDE-37XS955: 26 W KDE-42XS955: 26 W KDE-50XS955: 29 W
Supplied Accessories	Remote Control (1) AA (R6) Batteries (2) AC power cord (1) AC plug holder (1) Cable band (1) Cable band screw (1) AC cord clamp (1) Cleaning Cloth (1) Operating Instructions (1) Quick Setup Guide (1) Warranty Card (1)	RM-Y1004

Design and specifications are subject to change without notice.

Optional Accessories

- ☐ HDMI cable
- ☐ Component video cable
- ☐ S video cable
- ☐ A/V cable
- ☐ Audio cable
- ☐ Optical cable
- ☐ Control S cable: RK-G69
- ☐ Floating Stand: SU-PF3L (for KDE-50XS955)
SU-PF3M (for KDE-37/42XS955)
- ☐ Wall-Mount Bracket: SU-PW3M

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