

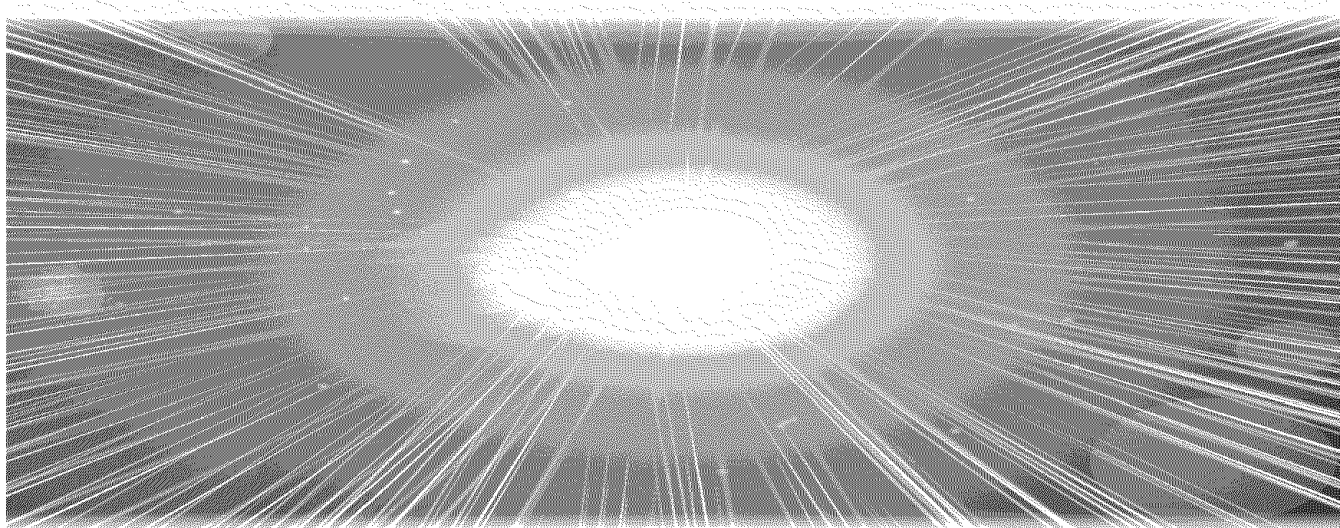
SONY

4-097-685-13 (1)

WEGA

SONY

Flat Panel Color TV KE-37XS910/KE-42XS910/KE-50XS910



**Flat Panel Color TV
Operating Instructions**

**KE-37XS910
KE-42XS910
KE-50XS910**



Precautions

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



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



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

Plug Type

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.

CAUTION

When using TV games, computers, and similar products with your TV, or viewing a TV station whose logo always stays on the screen, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern such as a station logo is left on the screen for long periods of time, especially at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty.

Where to Find

The model and serial numbers are located at the rear of the TV, below the Sony logo, on the sticker, and also on the TV box (white label). 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. _____

How to Operate Closed Captioning

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

How to Connect System Impedance

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.

How to Reduce EMI

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:

- 1 Reorient or relocate the receiving antennas.
- 2 Increase the separation between the equipment and receiver.
- 3 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4 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.

Notes

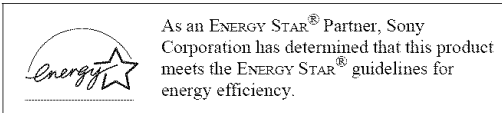
- 1 Operate the TV only on 120 V AC.
- 2 The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- 3 If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- 4 If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- 5 For details concerning safety precautions, see “Important Safeguards” on page 3.

Important Note

- 1 When used at an altitude of greater than 2300 m or 7546 feet (air pressure less than 760 hPa), 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.

WARNING

- 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.



ENERGY STAR® is a U.S. registered mark.

CAUTION

How to reduce the risk of "Image Retention" on your TV

Bright, stationary images such as TV station logos displayed on your TV can cause permanent damage to your TV, resulting in retention of the image in the picture. Please take the following steps to reduce the risk of causing image retention:

View a variety of program sources or programming material.

Image retention can occur when bright stationary images such as TV station logos are viewed. Changing the program material viewed reduces the possibility that a single image will become imprinted on the picture tubes in your TV.

When viewing programs with stationary images, adjust the picture setting to reduce the "Picture" and "Brightness" levels. Image retention is accelerated by higher "Brightness" and higher "Picture" settings.

Please see page 84 for instructions on adjusting picture settings.

This will help you reduce the risk of causing image retention.

IMAGE RETENTION IS NOT COVERED BY YOUR WARRANTY

CAUTION

The following SONY appliance(s) for use only with the following TV STAND or WALL-HANGING RACK UNIT. Use with other TV STAND or WALL-HANGING RACK UNIT is capable of resulting in instability causing possible injury.

SONY APPLIANCE MODEL NO.

KE-37XS910

KE-42XS910

KE-50XS910

SONY WALL MOUNT BRACKET MODEL NO.

SU-PW2


SONY FLOATING STAND MODEL NO.

SU-PF2

IMPORTANT INFORMATION

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.

REGISTERED TRADEMARKS

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

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

Steady Sound, Digital Reality Creation, Caption Vision, CineMotion, Memory Stick, and Twin View are registered trademarks of Sony Corporation. ClearEdge VM, HD Detailer, and Uniform Brightness Screen are trademarks of Sony Corporation.

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 set or described in the operating instructions or service manual.

AC Power

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

Power

Power Source

This set 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.



Power Cord and Plug

This set 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:

Do not force a plug with a different type 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.



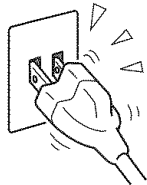
If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

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

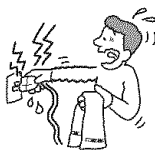
Unplug the AC power cord when wiring cables.

Be sure to unplug the AC power cord for your safety, when hooking up.

Wet Hand

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

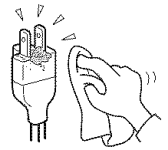
If you plug/unplug the AC power cord with a wet hand, it may cause electric shock.



Cleaning

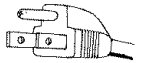
Clean the AC power plug regularly.

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.



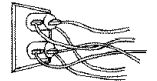
Do Not Use the Grounding Purpose Type Plug

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 set off when it is not being used. When the set 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 set 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 cable 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.
- 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.

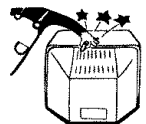
If the AC power cord is damaged, stop using it and ask your dealer or Sony service center to exchange it.

Cleaning

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

Objects and Liquid Entry

Never push objects of any kind into the set 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 set.



(Continued)

Do not insert anything into the 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

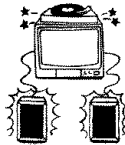
Clean the cabinet of the TV with a dry soft cloth. To remove the dust from the slots, the openings and the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with the cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or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

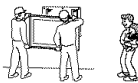
TV set mounts

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



Installation

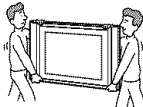
When installing the display unit on the wall, be sure to have assemblers install and keep away from the unit. If a person other than the assemblers install the display unit on the wall using a wall mount unit, the unit may fall and cause serious injury when an earthquake occurs or when the unit is not installed securely.



Carrying

Carrying the set requires two or more people.

If you carry the set in a manner other than that specified, it may drop and a serious injury may be caused. Be sure two or more people carry the set.



When transporting, do not subject the set to shocks or vibration excessive force. The set may fall and damage the set, causing serious injury.

AC power cord

Unplug the AC power cord when moving the set.

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

Working with a doctor

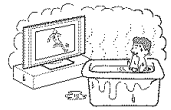
Do not place this unit in a place where medical equipment is in use.

It may cause malfunction of medical instruments.



Water and moisture

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.



Placemat

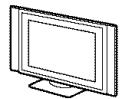
Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by Sony for the specific model of TV. No part of the TV set should overhang any edge of the TV cart or stand; 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.



Installation and moving

Observe the following when installing the TV using a stand or wall mount unit. If not, the unit may fall and cause serious injury.

- Be sure to follow the operating instructions supplied with your stand when installing the unit.
- Be sure to attach the brackets supplied with your stand.



Do not install the TV in protruding locations.

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.

Do not

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

Do not

If you use this unit near the seashore, salt may corrode metal parts of the unit and cause internal damage or fire.

It may also shorten the life of the unit.

Precautions for

Secure the TV from falling down.

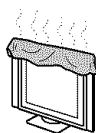
If the TV is not secured properly, it may fall and cause injury. Take measures against it using a stand or other apparatus on the floor or wall in the specified manner, referring to the operating instructions supplied with your stand.

Precautions

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

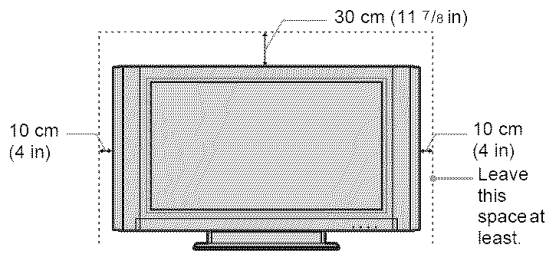
Unless proper ventilation is provided, the unit may gather dust and get dirty. For proper ventilation, Observe the following:

- 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 set on a bed, sofa, rug or other similar surface.
- Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not leave the slots and openings until they are covered thickly with dust. Clean the slots and the openings occasionally for proper ventilation.



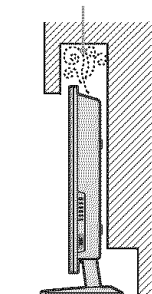
Precautions

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



Never install the unit as follows:

Air circulation is blocked.



Precautions

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.



Precautions

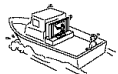
Do not install this unit in a vehicle or hung from the ceiling.



Bumping of the vehicle may cause the set 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.



Away from

Carrying the set requires two or more people.

If you carry the set in a manner other than that specified, it may drop and a serious injury may be caused. Be sure two or more people carry the set.

When transporting, do not subject the set to shocks or vibration, or excessive force. The set may fall and be damaged, causing serious injury.

AC power cord

Unplug the AC power cord when moving the set.

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

Do not

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

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



Antenna

Outdoor Antenna Connection

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.

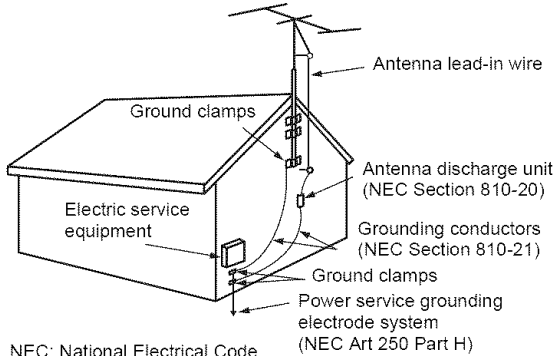
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

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 Service, including Grounding a Television Receiver



NEC: National Electrical Code

Lightning

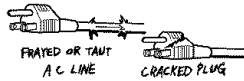
For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Repairs

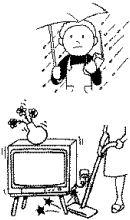
Damage Due to Power Surges

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

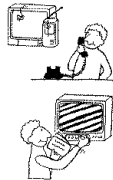
- 1 When the power cord or plug is damaged or frayed.
- 2 If liquid has been spilled into the set.
- 3 If the set has been exposed to rain or water.



- 4 If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.



- 5 If the set 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 set to normal operation.



- 6 When the set exhibits a distinct change in performance, it indicates a need for service.

Service

Do not attempt to service the set 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 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.

Routine Checks

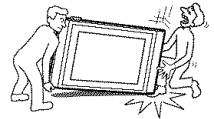
Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result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



Installation

Precautions When Placing the TV

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



Carrying the TV in a Manner Other Than Specified

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

- 1 Carry the TV with the specified number of persons.
- 2 Do not carry the TV holding the speaker grill.
- 3 Hold the TV tightly when carrying it.

TV Care

Cracks on the Surface of the Display Unit

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

Otherwise electric shock may result.

Moisture

Do not let this unit get wet. It may result in electric shock or damage the unit.

Touching the Unit

Do not touch the unit with a wet hand.

Doing so may cause electric shock or damage to the unit.

Throwing Objects

Do not throw anything at the unit.

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

Tripping

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

Heat

Do not touch the display surface.

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

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 W

Welcome

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

- ☐ KE-37XS910
- ☐ KE-42XS910
- ☐ KE-50XS910

Package Contents

The package contains the following:

- ☐ Flat panel display unit
- ☐ Remote control (RM-Y1001) and two size AA batteries
- ☐ AC power cord
- ☐ Antenna cable
- ☐ Cord clamp and four clamp rivets
- ☐ Two clamp screws
- ☐ Cleaning cloth
- ☐ Operating Instructions

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.

Features

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

- ☐ **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. This engine features unique Sony technology, including:
 - The first step in the digital processing system, Composite Component Processor (CCP), which enhances input signal to noise ratio by chroma decoder digital processing;
 - **DRC® (Digital Reality Creation) Multifunction V1**: Unlike conventional line doublers, the DRC Multifunction feature replaces the signal's NTSC waveform with the near-HD equivalent by digital

(Continued)

mapping processing. The DRC Palette option lets you customize the level of detail (Reality) and smoothness (Clarity) to create up to three custom palettes.

- **Multi-Image Driver (MID™-XU):** (Twin View™) Allows you to watch two programs side by side. You can watch pictures from two different sources (1080i, 720p, 480p, and 480i) simultaneously. (Only the left Twin View window can display 1080i, 720p, and 480p sources.)
- **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.
- **Newly developed PDP driver IC:** Achieves high-precision gamma characteristics, using Sony's unique digital technology. Fine gradation of dark scenes, which is not possible with conventional PDP, is realized by greatly enhancing resolution in the low brightness range.

- ☐ **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 (JMEG) and movies (MPEG1) that are stored on Memory Stick media.
- ☐ **Component Video Inputs:** Offers the best video quality for DVD (480p, 480i), and digital set-top box (HD1080i, 720p) connections.
- ☐ **Parental Control:** V-Chip technology allows parents to block unsuitable programming from younger viewers.
- ☐ **Digital Visual Interface (DVI-HDTV):** Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.

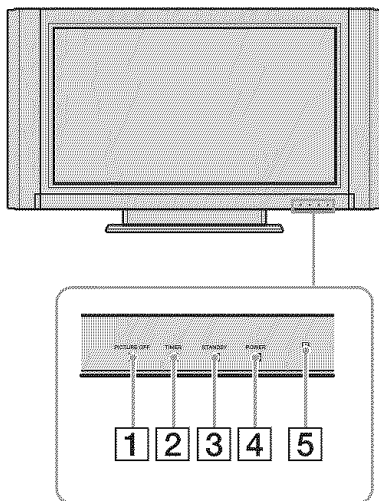
Setting Up Your TV

Overview

This chapter includes illustrated instructions for setting up your TV.

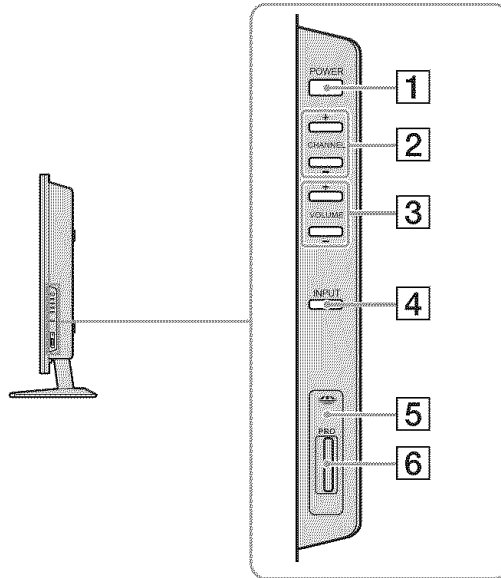
Topic	Page(s)
TV Controls and Connectors	16-19
Installing the TV	21
Basic Connections: Connecting a Cable or Antenna	23-28
Connecting Optional Equipment	
VCR and Cable	30
VCR and Cable Box	32
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Camcorder	45
Audio Receiver	46
Sub woofer	47
Using the CONTROL S Feature	47
Setting Up the Channel List	48

Front Panel



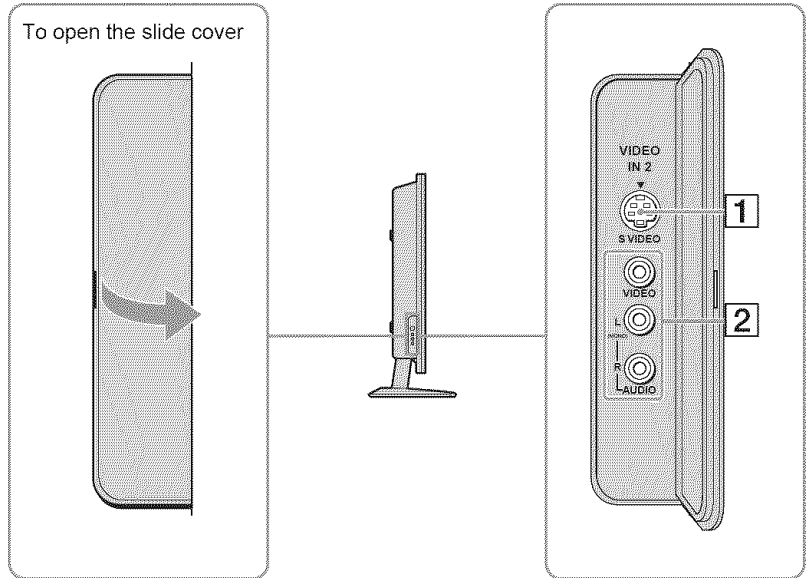
Item	Description
1 PICTURE OFF	When lit, indicates that the Picture Off feature is activated. For details, see page 65.
2 TIMER	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV set is turned off. For details, see page 97.
3 STANDBY	Lights up in red when the TV is in standby mode. The LED does not light up when the main power is turned off. If the LED blinks continuously, this may indicate the display unit needs servicing (see “Contacting Sony” on page 101).
4 POWER	Lights up in green when the TV set is turned on.
5 IR sensor (IR)	Receives IR signals from the TV’s remote control.

Right Side Panel



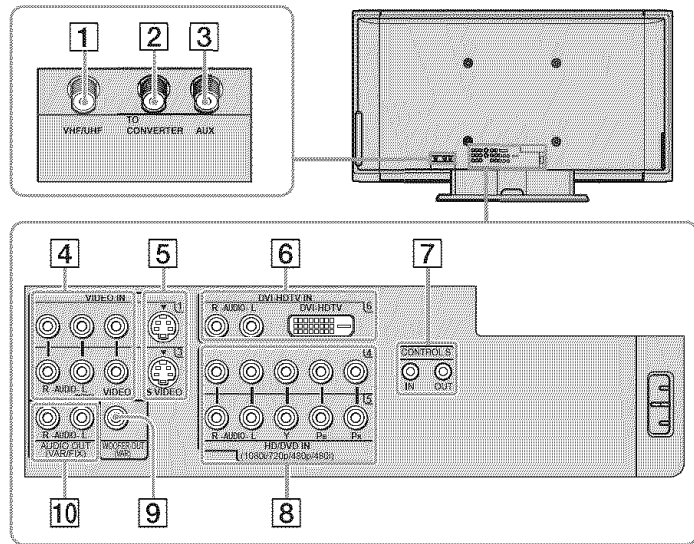
Item	Description
1. POWER	Press to turn on and off the main power of the TV Set.
2. CHANNEL	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL.
3. VOLUME	Press to adjust the volume.
4. INPUT	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
5. Memory Stick Ready indicator	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
6. (Memory Stick slot)	Memory Stick insertion slot. For details, see "Inserting and Removing a Memory Stick" on page 69.

Left Side Panel



Item	Description
1 S VIDEO VIDEO IN 2	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 ().
2 VIDEO L (MONO) AUDIO VIDEO IN 2	Connects to the composite A/V output jacks on your camcorder or other video equipment. If you connect a monaural VCR or camcorder, connect the audio output to the AUDIO L (MONO) jack on the TV.

Rear Panel



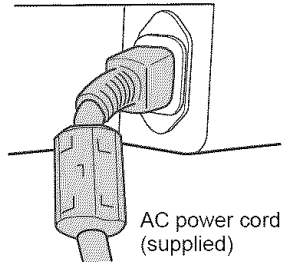
Jack	Description
1 VHF/UHF	RF input that connects to your VHF/UHF antenna or cable box.
2 SCART (SCART) TV	Connects to your cable box input jack. This VHF/UHF output jack lets you set up your TV to switch between scrambled channels (coming through a cable box) and unscrambled cable channels. Use this jack instead of a splitter to get better picture quality when you need to switch between scrambled and unscrambled cable channels. For details, see page 25.
3 AUX	Auxiliary RF input that connects to your antenna, CATV cable, or cable box output jack. This is convenient if you are using two VHF/UHF sources (antenna, CATV cable, or cable box). For details, see pages 24 and 25.
4 VIDEO IN 1 (A/V) VIDEO IN	Connect to the composite A/V output jacks on your VCR or other video component. A third composite A/V input jack (VIDEO IN 2) is located on the left side panel. These video connections provide better picture quality than the VHF/UHF (1) connections.
5 VIDEO IN 2 (A/V) VIDEO IN	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 either composite video (4) or VHF/UHF (1) connections.
6 DVI/HDTV IN (DVI/HDTV)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV. Use a DVI-D single link cable.
7 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.
8 COMPONENT IN (Y/PB/PR) (1080P/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 (1), (4), or (5).

Jack	Description
<input type="checkbox"/> SUBWOOFER OUT <small>(RCA)</small>	Connects to the input jack of your sub woofer.
<input type="checkbox"/> AUDIO OUT <small>(SPEAKER OUTPUT)</small>	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.

* High-bandwidth Digital Content Protection

Connecting the AC Power Cord

- 1 Secure the AC power plug to the AC IN jack.



- 2 Connect the AC power cord (supplied) to wall outlet.

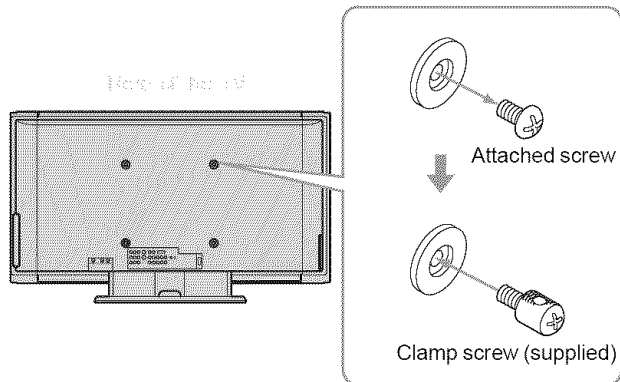
Be sure to use the supplied AC power cord.

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

Preventing the TV from Falling Down

After connections with antennas and other equipment are completed, be sure to attach the supplied clamp screws to the rear of the TV, and pass a sturdy cord or chain and attach it to a wall or pillar.

- 1 Remove one of the upper two screws at the rear of the TV, then attach the supplied clamp screw to the screw hole.



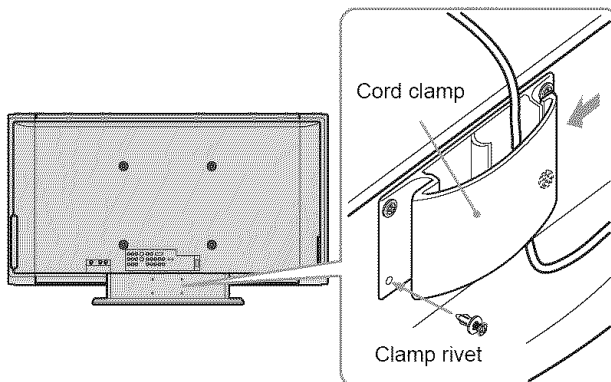
- 2 Repeat step 1 to attach the other clamp screw.
- 3 Attach a sturdy cord or chain securely to each clamp screw, and attach the cord or chain to a wall or pillar.

Storing the Cables in the Cord Clamp


You can attach the supplied cord clamp to the rear of the TV to store the connecting cables.

- 1 Attach the supplied cord clamp to the TV stand with four supplied clamp rivets.

Push the rivet head to attach the cord clamp to the TV stand.



- 2 Pass the connecting cables from the right through the cord clamp.

 **To remove the cord clamp, turn to remove the four rivets using a phillips screwdriver.**

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 Only	23
<input type="checkbox"/> No cable box or VCR	
Cable and Antenna Only	24
<input type="checkbox"/> No cable box or VCR	
Cable Box and Cable Only	25
<input type="checkbox"/> Cable box unscrambles only some channels (usually premium channels)	
<input type="checkbox"/> No VCR	
Cable Box Only	27
<input type="checkbox"/> Cable box unscrambles all channels	
<input type="checkbox"/> No VCR	

If you are connected by a VCR:


- See the connections described on pages 30 and 32.

Cable or Antenna Only

Do not need a cable box to unscramble channels. (If you have a cable box, see pages 25 and 27.)

- Do not intend to connect a VCR. (If you have a VCR, see pages 30 and 32.)

For antenna connection, use the supplied antenna cable.

Cable Type	Connect As Shown
VHF Only or combined VHF/UHF or Cable	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Antenna cable (supplied)</p> </div>  <div style="margin-left: 20px;"> <p>VHF/UHF</p> </div> </div>

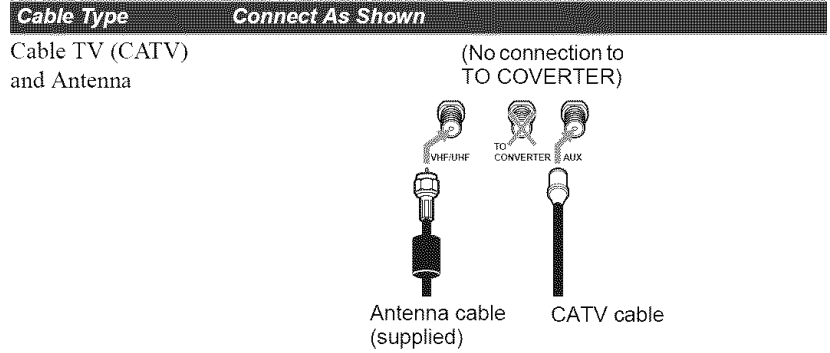
- When using an indoor antenna, such as rabbit-ear or dipole-antenna, keep the antenna away from the TV. If not, noise may appear on the screen.**

Cable and Antenna Only

For best results, you should use the following:

- Have a cable and an antenna.
(This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)
- Do not have a cable box or VCR. (If you have a cable box, see pages 25 and 27. If you have a VCR, see pages 30 and 32.)

For antenna connection, use the supplied antenna cable.



Always always use connections with good isolation (avoid sharing ports) whenever possible.

With this connection, you cannot view antenna channels in the right dual picture window.

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

For more information, see the following:

To Do This ...	Do This ...
Switch the TV's input between the cable and antenna	Press INPUT to switch back and forth between the TV's VHF/UHF and AUX inputs.
Receive channels using an antenna, instead of the cable	<ul style="list-style-type: none"> □ Press INPUT to switch to the AUX input. ✎ Set the Channel option to 03. For details, see "Selecting Channel Options" on page 90. ✎ Run the Auto Setup program, as described in "Setting Up the Channel List" on page 48.

Cable Box and Cable Only

Check for scrambled channels

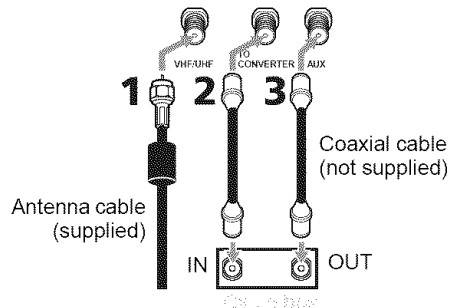
- Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- You do not have a VCR. (If you have a VCR, see pages 30 and 32.)

Use the TV remote control

- Use the TV remote control to change channels coming through the cable box to the TV's AUX input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 52.)
- Use the TV remote control to change channels coming directly into the TV's VHF/UHF input. (The TV's tuner provides a better signal than the cable box.)

Use the TV's internal converter

- Connect your cable company to the TV's VHF/UHF jack using the supplied antenna cable.
- Use a coaxial cable to connect the TV's TO CONVERTER jack to the cable box's input jack. (The TV's internal converter lets you switch between unscrambled signals coming straight into the TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.)
- Use a coaxial cable to connect the cable box's output jack to the TV's AUX jack.
- Run the Auto Setup program, as described in "Setting Up the Channel List" on page 48.



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 TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on page 52.
Activate the remote control to operate the cable box	Press SAVED CHANNEL FUNK. TUN.
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 90.
Switch the TV's input between the cable box and cable	Press FN1 to switch back and forth between the TV's VHF/UHF (unscrambled channels) and AUX (scrambled) inputs.

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

Cable Box Only

For more information, see the following sections:

- 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:

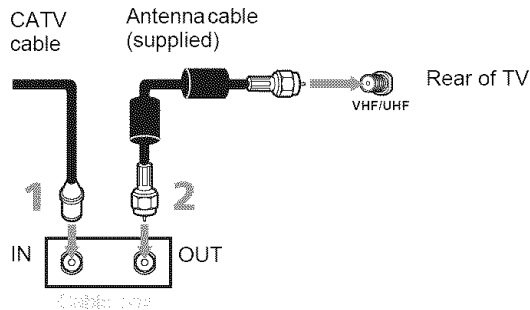
- Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

Although this connection will allow you to use the TV's VCR, you cannot use the TV's dual picture 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 Cable Only" on page 25 instead.

To connect the cables:

- 1 Connect the CATV cable to the cable box's input jack.
- 2 Use the supplied antenna cable 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 48.



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 TV remote control to operate the cable box	Program the remote control. See “Programming the Remote Control” on page 52.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNC. IN.
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 90.

 **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:

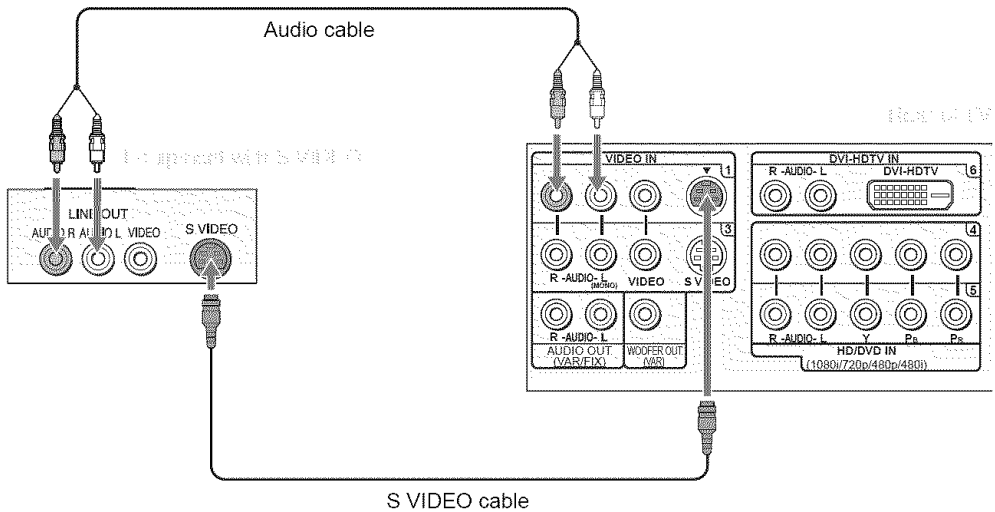
If You Are Connecting	See Page
VCR and Cable	30
VCR and Cable Box	32
Two VCRs for Tape Editing	34
Satellite Receiver	36
Satellite Receiver and VCR	38
DVD Player with Component Video Connectors	40
DVD Player with S VIDEO and Audio Connectors	42
Digital TV Set-Top Box with Component Video Connectors	43
Digital Satellite Receiver with DVI-HDTV connector	44
Camcorder	45
Audio Receiver	46
Sub Woofer	47

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.

Diagram of an S VIDEO connection



VCR and Cable

Check with your cable company to see if:


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

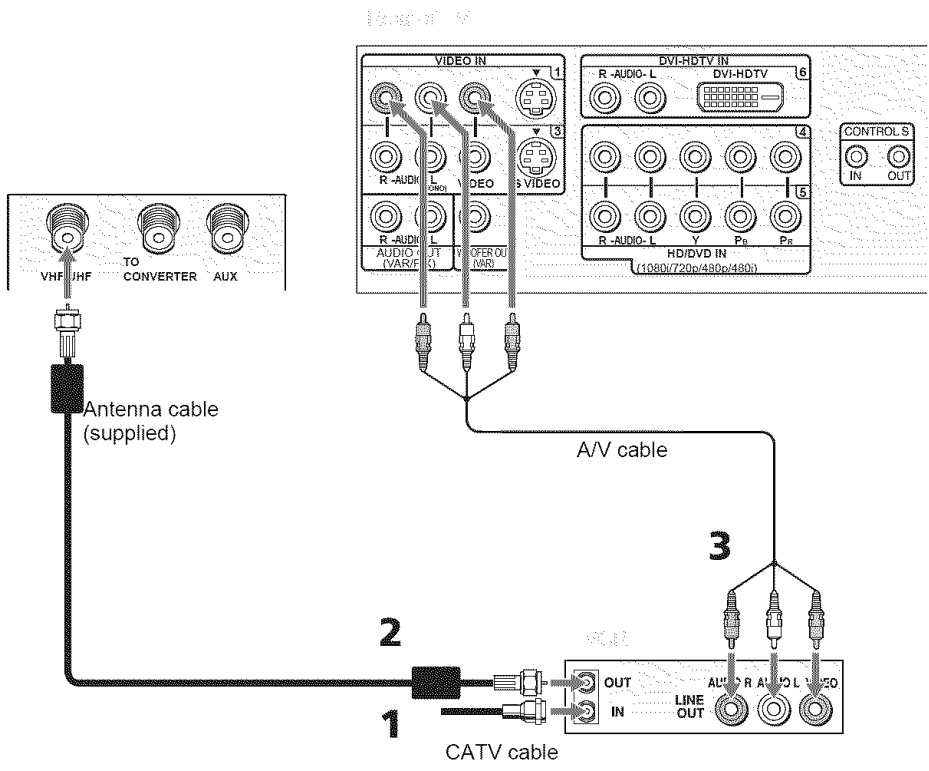
Always check the connections with your technician (this may vary) before:

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

to connect to the VCR's input jacks.

- 1 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 2 Use the supplied antenna cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.
- 3 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 48.

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



To Do This ...	Do This ...
Watch the VCR	Press VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press VIDEOL repeatedly to select the cable input (VHF/UHF in the illustration).
Set up the TV 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 52.
Activate the TV remote control to operate the VCR	Press VCR/MPEG FUNCTION .
Control VCR functions with the TV remote control	See “Operating a VCR” on page 54.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.

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

VCR and Cable Box

There are two ways to connect a VCR to a TV:

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

When using this connection with Dual Picture (see "Dual Picture" in the next chapter),

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

When the VCR is connected to your TV:

- Use the TV 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 52.)
- Use the TV remote control to change channels coming directly into the TV's VHF/UHF 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.

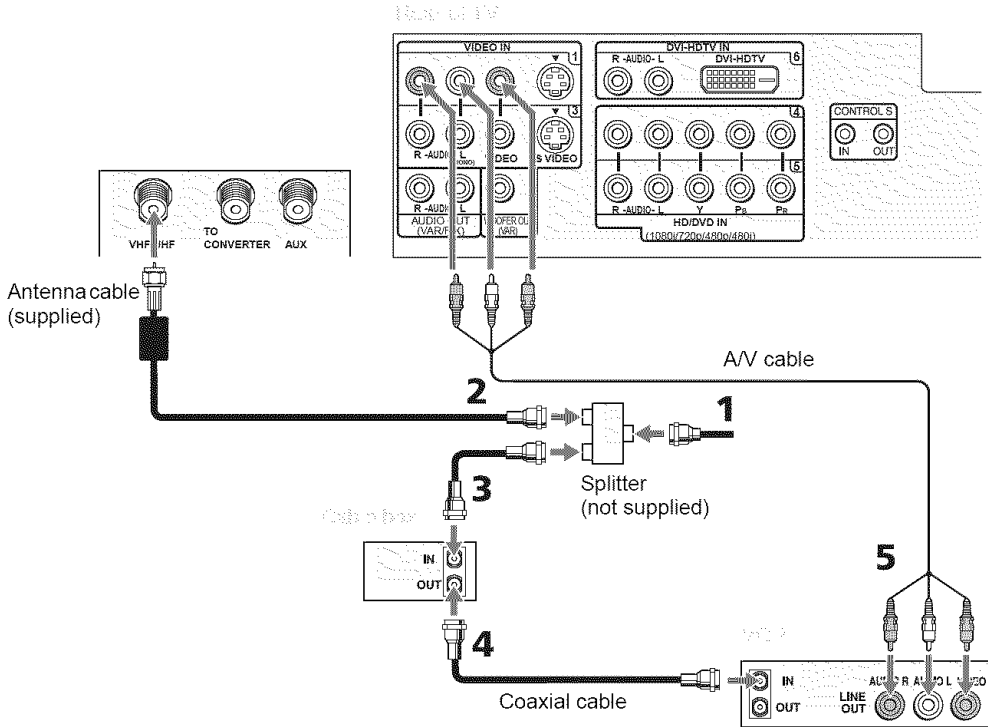
To view the TV's dual picture features, you need:

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

To connect the VCR to the TV, do the following:

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use the supplied antenna cable to connect one of the splitter's two output jacks to the TV's VHF/UHF 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 VCR's A/V output jacks to the TV's A/V input jacks.
- 6 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 48.

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



After setting the connection

To Do This ...	Do This ...
Watch cable (unscrambled) channels	Press INPUT 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 INPUT repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press INPUT repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV 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 52.
Activate the remote control to operate the cable box or VCR	For the cable box, press APRINT/FUNCTION . For the VCR, press VCR/CHANNEL FUNCTION .
Control specific cable box and VCR functions with the TV remote control	See “Operating a Cable Box” on page 55 and “Operating a VCR” on page 54.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.


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

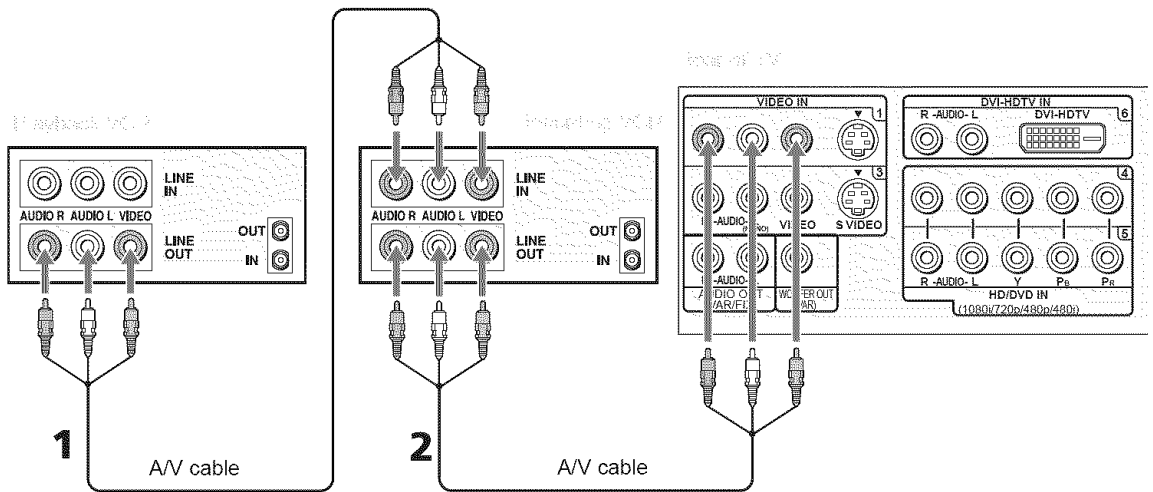
Two VCRs for Tape Editing


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.

Use an A/V cable to connect the playback VCR to the recording VCR.

- 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 AUDIO and VIDEO IN jacks.

 **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.

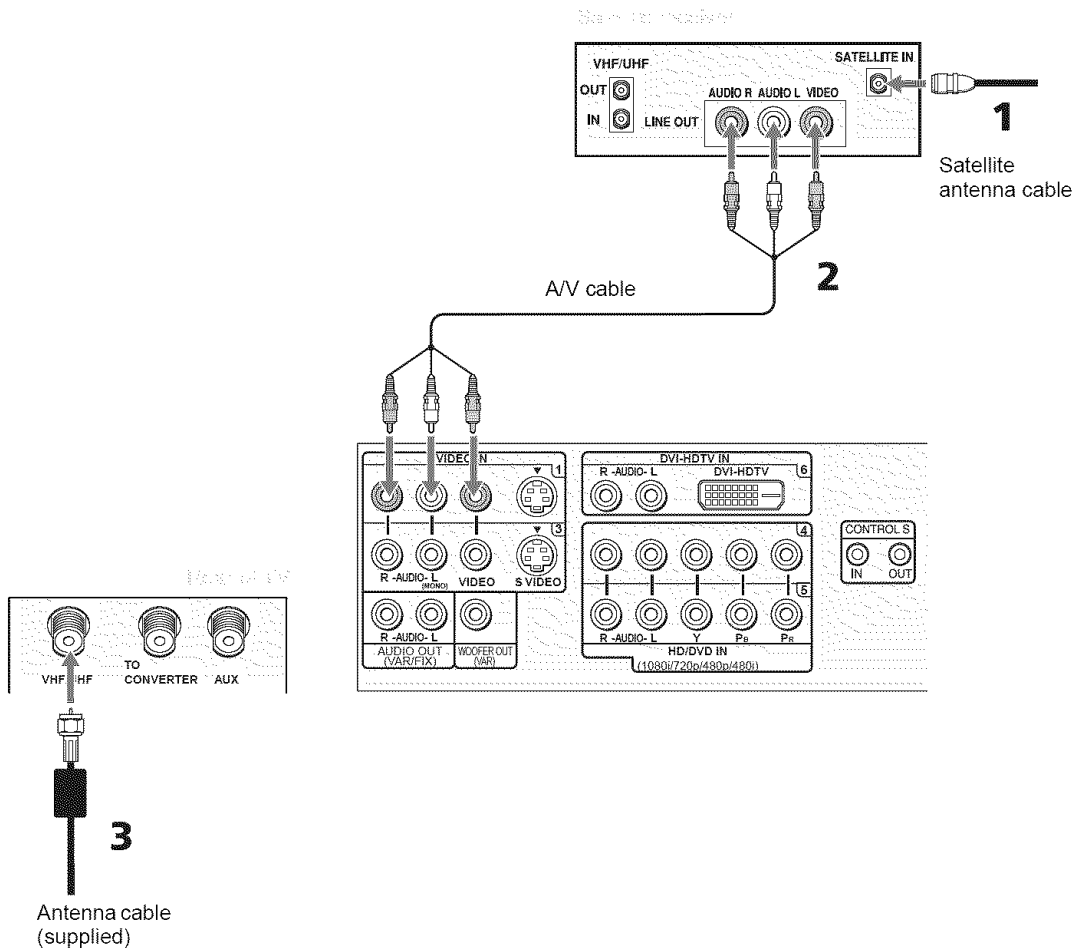
To Do This ...	Do This ...
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on page 52.
Activate the TV remote control to operate the VCR(s)	Press VCR/SVIDEO FUNCTION .
Control VCR functions with the TV remote control	See “Operating a VCR” on page 54.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.

Satellite Receiver


See page 29 for more information on connections.

- 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.
- 3 Connect the supplied antenna cable from your cable or antenna to the TV's VHF/UHF jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 48.

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



To Do This ...	Do This ...
Watch the satellite receiver	Press SYNCH repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV 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 52.
Activate the TV remote control to operate the satellite receiver	Press SATELLITE FUNCTION .
Control satellite receiver functions with the TV remote control	See “Operating a Satellite Receiver” on page 54.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.

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

Satellite Receiver and VCR

1. Connect the satellite antenna cable to the satellite receiver's satellite input jack.

2. Connect the CATV cable to the VCR's VHF/UHF input jack.

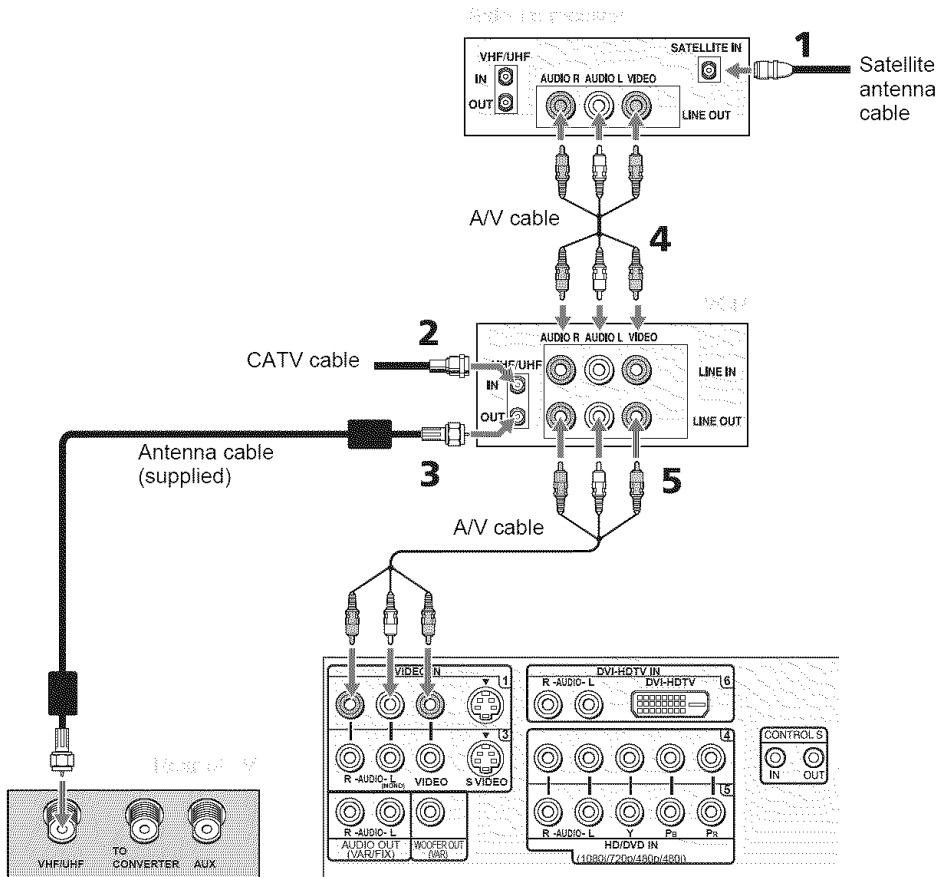
3. Use the supplied antenna cable to connect the VCR's VHF/UHF output jack to the TV's VHF/UHF jack.

4. Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.


5. Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.

6. Run the Auto Setup program, as described in "Setting Up the Channel List" on page 48.

Using S VIDEO jacks? See page 29.



To Do This ...	Do This ...
Watch the satellite receiver	Press VIDEO 1 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 VIDEO 1 repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV 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 52.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press REMOTE CONTROL LINK . For the VCR, press VCR/MOVIE LINK .
Control satellite receiver and VCR functions with the TV remote control	See “Operating a Satellite Receiver” on page 54 and “Operating a VCR” on page 54.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.


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

DVD Player with Component Video Connectors

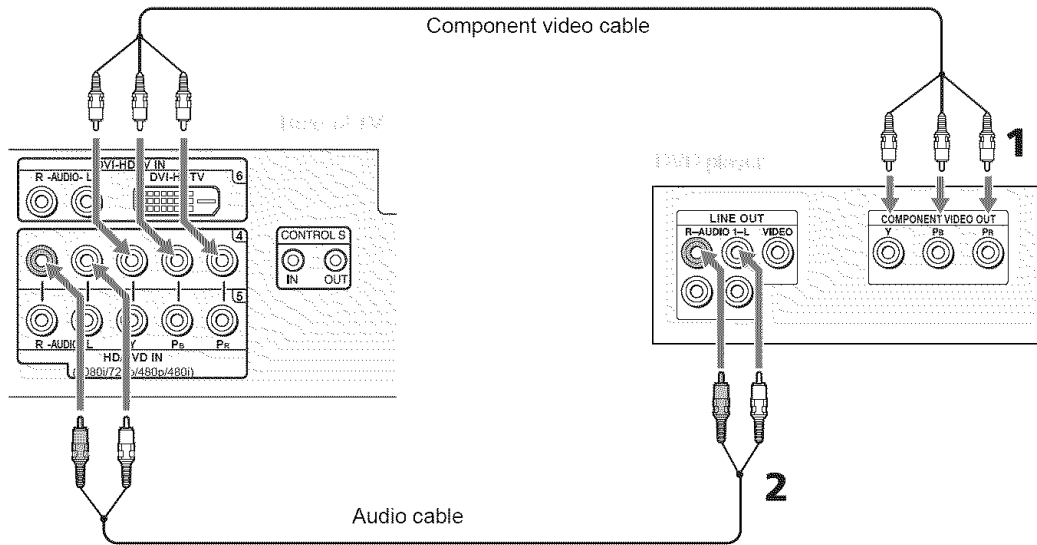
For best results, use this connection if your DVD player has component video (Y, PB, PR) jacks.

Use three separate component video cables to connect the DVD player's


- 1 Use three separate component video cables to connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks (HD/DVD IN) on the TV.

 **The Y, PB and PR jacks on your DVD player are sometimes labeled Y, CB and CR, 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 HD/DVD IN AUDIO input jacks.



To Do This ...	Do This ...
Watch the DVD player	Press VIDEO 4 repeatedly to select the DVD input (VIDEO 4 in the illustration).
Set up the TV 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 52.
Activate the TV remote control to operate the DVD player	Press VIDEO ? FUNCTION .
Control DVD functions with the TV remote control	See “Operating a DVD Player” on page 55.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.

 **You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**

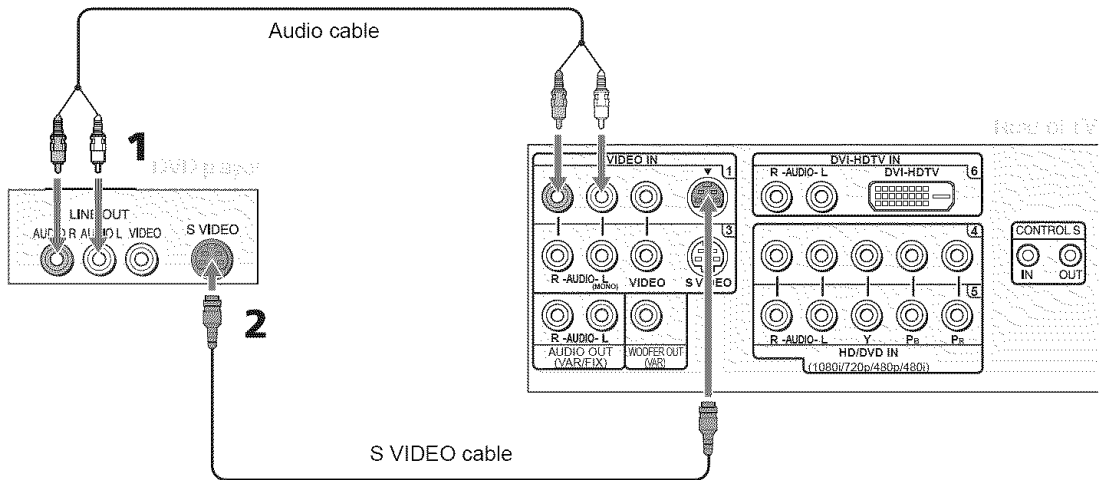
Do not leave a still image, such as the DVD menu, displayed on the screen.

DVD Player with S VIDEO and Audio Connectors

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

Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.

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




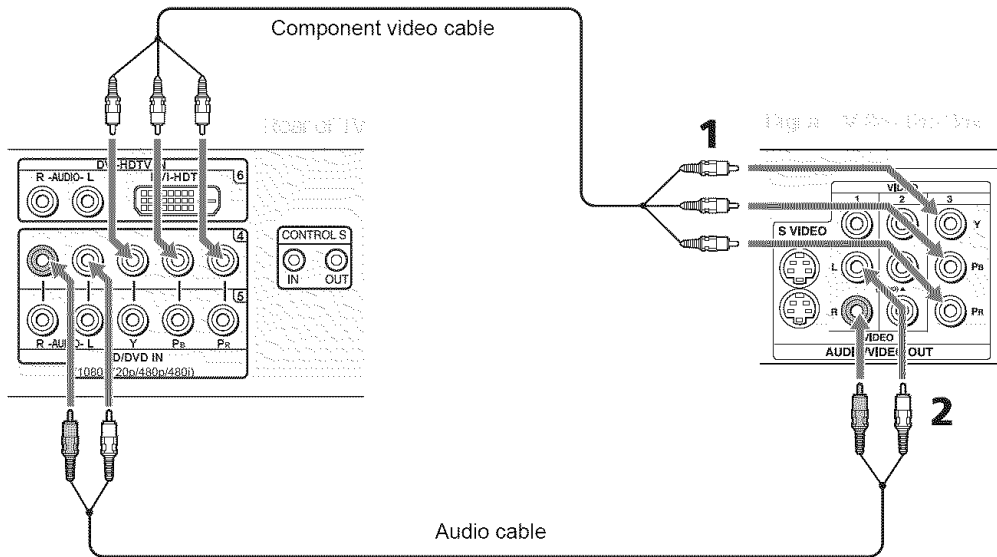
How to Use the TV Remote Control

To Do This ...	Do This ...
Watch the DVD player	Press VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV 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 52.
Activate the TV remote control to operate the DVD player	Press VIDEO/PAUSE/FUNCTION .
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 55.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.

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


Digital TV Set-Top Box with Component Video Connectors

- Use three separate component video cables to connect the set-top box's Y, PB and PR jacks to the Y, PB and PR jacks (HD/DVD IN) on the TV.
-  **The Y, PB and PR jacks on your set-top box are sometimes labeled Y, CB and CR, or Y, B-Y and R-Y. If so, connect the cables to their matching color jacks.**
- Use an audio cable to connect the set-top box's audio output jacks to the TV's HD/DVD IN AUDIO input jacks.



How to Watch Digital TV


To Do This ...	Do This ...
Watch the digital TV set-top box	Press EW/PIP repeatedly to select the digital TV set-top box input (VIDEO 4 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 96.

 **You cannot record the signal from any equipment connected into the Y, PB, PR jacks.**

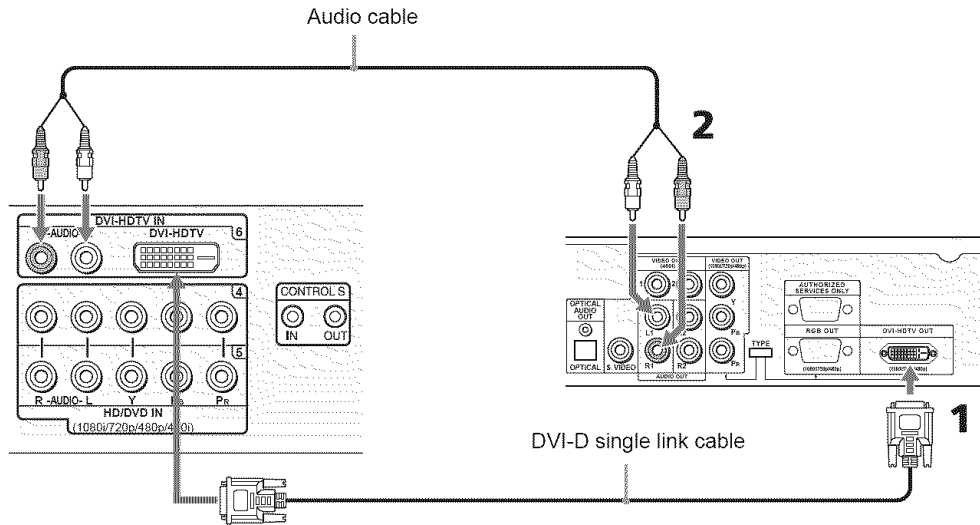
Do not leave a still image or display indication, such as the Electric Program Guide, displayed on the screen.

Digital Satellite Receiver with DVI-HDTV Connector

Use a DVI-D single link cable to connect the Digital Satellite Receiver's DVI-HDTV connector to the TV's DVI-HDTV connector.

 **The DVI-HDTV VIDEO connector does not provide audio, so audio cables must be connected to provide sound.**

Use an audio cable to connect the Digital Satellite Receiver's audio output jacks to the TV's DVI-HDTV AUDIO jacks.



Connecting to the TV


To Do This ...

Watch the digital satellite receiver
Label video inputs to easily
identify equipment connected to
the TV

Do This ...

Press **VIDEO** repeatedly to select the digital satellite receiver input (VIDEO 6 in the illustration).

See the instructions for setting up Video Labels on page 96.


 **Do not leave a still image or display indication, such as the Electric Program Guide, displayed on the screen.**

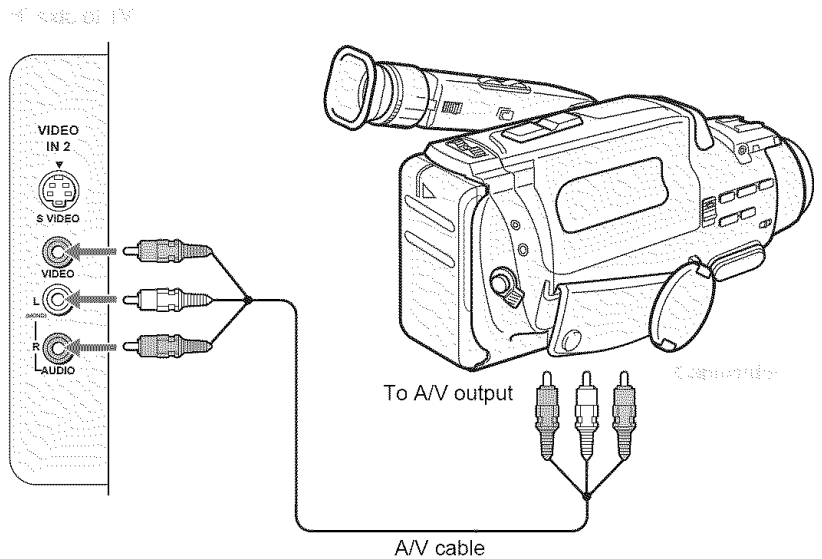
Camcorder

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

See [page 29](#) for more information.

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

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




For more information, see [page 29](#).

To Do This ...


Watch the camcorder

Label video inputs to easily identify equipment connected to the TV

Do This ...

Press  repeatedly to select the camcorder input (VIDEO 2 in the illustration).

See the instructions for setting up Video Labels on [page 96](#).

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

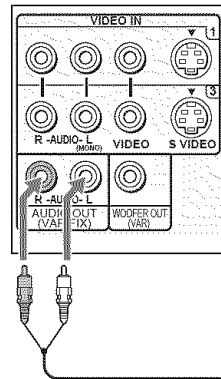
Audio Receiver

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

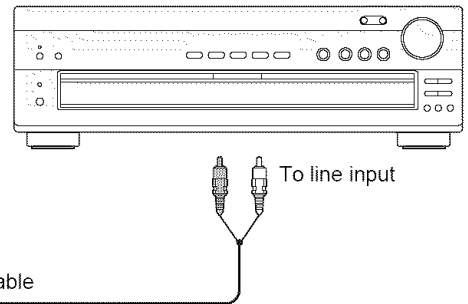
See [Using the TV's audio output](#) for more information.

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

Back of TV



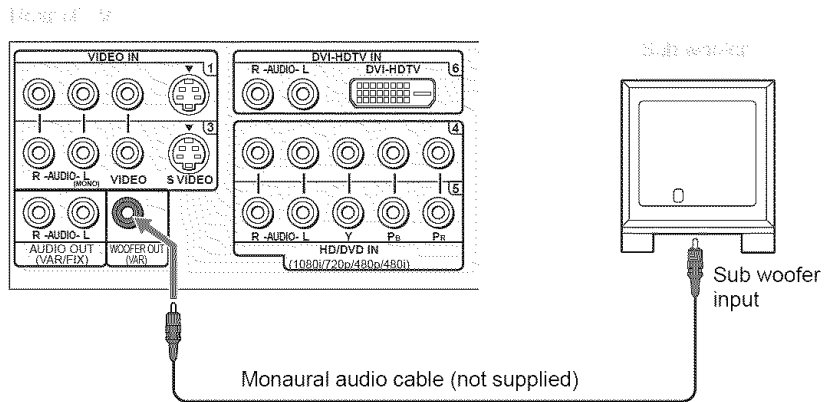
Receiver



- 2 Using the TV's Audio Menu, set the **Source** option to **TV**. Then set the **Audio Out** option to **Line** or **Variable**, depending on how you want to control the volume. For details, see “Using the Audio Menu” on page 86.
- 3 Turn on the audio receiver, and then set the 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 WOOFER OUT jack to the sub woofer's input jack.

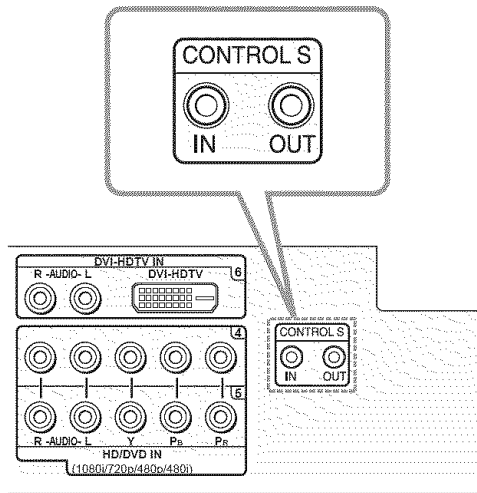


Using the CONTROL S Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, 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.



Scrolling Up the Channel List

After you finish connecting your TV, you need to run Auto Setup, which automatically set up available channels. The Auto Program screen appears when you turn on your TV for the first time after hooking it up.

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

Using Auto Setup

See page 90 for the description of the Auto Setup feature.

- 1 Press **POWER** to turn on the TV.
The Initial Setup screen appears.
- 2 Press **TV** **INPUT** **ICN** on the remote control.
- 3 Press **+** or **-** to select the desired on-screen display language and press **+**.
“Start Auto Program Now ?” appears.
- 4 Press **+** or **-** to select “Yes” and press **+**.

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

See page 90 for the description of the Auto Setup feature.

- 1 Use the Auto Program feature as described on page 90.



Using the Remote Control

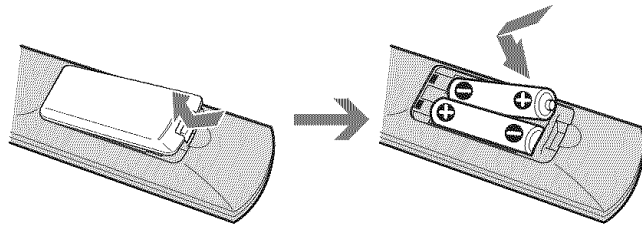
Overview


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

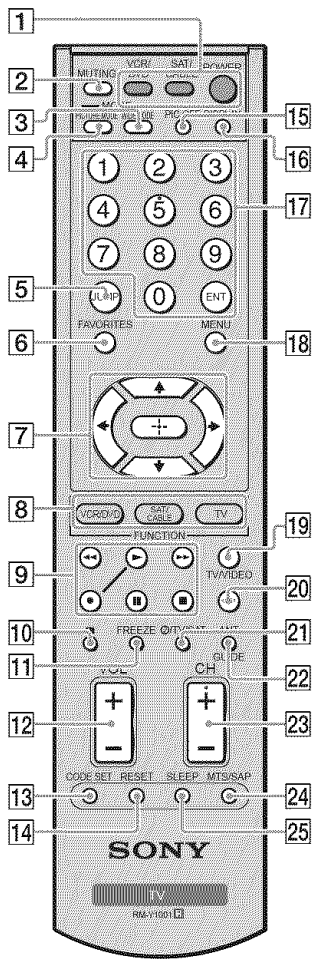
Topic	Page
Inserting Batteries	49
Button Descriptions	50
Programming the Remote Control	52
Using Other Equipment with Your TV Remote Control	54

Inserting Batteries














- 1 Open the battery compartment as illustrated below.
- 2 Insert two size AA batteries (supplied) by matching the  and  terminals on the batteries to the diagram inside the battery compartment.
- 3 Close the 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, placing it in direct sunlight, near a heater, or where the humidity is high.



Button	Description
Power Buttons	VCR/DVD : Press to turn on and off the VCR or DVD player you have programmed into the remote control. SAT/CABLE : Press to turn on and off the satellite receiver or cable box you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 52.
MUTE	POWER : Press to turn on and off the TV. Press to mute the sound. Press again or press VCR/DVD to restore the sound.
WIDE MODE	Press repeatedly to step through the Wide Mode settings: Wide Area, Natural, Full, Smart. Also available in the Screen menu. For details, see pages 59 and 88.
PICTURE MODE	Press repeatedly to cycle through the available video picture modes: VIVID, Standard, LITE. Also available in the Video Menu. For details, see "Selecting Video Options" on page 84.
JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
FAVORITE CH	Press to display the Favorite Channels list. For details, see page 63.
CURSOR	Press to move the on-screen cursor. To select an item, press .
FUNCTION	VCR/DVD : Press to have the remote control operate video equipment or DVD player you have programmed into the remote control. SAT/CABLE : Press to have the remote control operate the satellite receiver or cable box. TV : Press to have the remote control operate the TV.
VCR/DVD, SAT/CABLE, TV Buttons	REWIND PLAY FAST FORWARD RECORD (press together with) PAUSE STOP
Twin View	Press to turn on and off Twin View. For details, see page 60.
FREEZE	Press to freeze the picture. Press again to restore the picture. For details, see "Using the Freeze Function" on page 64.
VOL +/-	Press to adjust the volume.
CODE STORE/RECALL	Press to program the remote control to operate non-Sony video equipment. For details, see "Programming the Remote Control" on page 52.

Button	Description
 RESET	Press to reset the settings to the factory defaults. See pages 84 and 86. Also used to clear Favorite Channels (see page 63).
 POWER	Press to have the TV screen turn off. For details, see page 65.
 DISPLAY	Press once to display the current channel number, current time, and channel label. If set, the current channel number will display for 10 seconds.
 CH, FN	Press  to select a channel; the channel changes after 2 seconds. Press LNK to change channels immediately.
 MENU	Press to display the Menu. Press again to exit from the Menu. For details, see page 83.
 VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
 Memory Stick	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 67.
 Ⓚ	Press repeatedly to step through the available audio effect modes: TruSurround, Simulated, and off. For details, see "Selecting Audio Options" on page 86.
SWAP	If SAT/CABLE FUNCTION is pressed. Press to switch between the TV and the satellite receiver.
 ON	Press to switch between the sources connected to the TV's VHF/UHF and AUX inputs.
OTHER	If SAT/CABLE FUNCTION is pressed. Press to display the program guide of your satellite program provider.
 CH	Press to scan through channels. To scan quickly through channels, press and hold down either CH .
 MULTI	Press repeatedly to cycle through the Multi-channel TV Sound (MTS) options: STEREO , AUTO , and MATRIX . For details on each option, see page 86.
 SLEEP	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60 or 90) that you want the TV to remain on before shutting off. To cancel Sleep Timer, press SLEEP repeatedly until SLEEP OFF appears.

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

Sony Equipment	Programmable Code Number
Beta, ED Beta VCRs	303
8 mm VCR	302
VHS VCR	301
DVD player	751

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

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

- 1 Turn to the list of "Manufacturer's Codes" on page 53, and find the three-digit code number for the manufacturer of your equipment. (If more than one code number is listed, use the number listed first.)
- 2 Press **CODE** **MEMO**.
- 3 Press the desired **INFO** **ON** button.
- 4 Enter the three-digit manufacturer's code number.
- 5 Press **MEMO**.

⚠ You must do step 4 within 30 seconds of step 3, or you must redo steps 3 through 4.

- 6 To check if the code number works, aim the TV's remote control at the equipment and press **POWER** that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.

NOTE

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some cases, you may not be able to operate your equipment with the supplied remote control. In such cases, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reset.

Manufacturer Code

VCR

Manufacturer	Code
Sony	301
Admiral	327
(M. Ward)	
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
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
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/	323, 324, 325,
MGA	326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327

Manufacturer	Code
Panasonic	308, 309, 306, 307
Pentax	305, 304
Phileo	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/	304, 305, 308,
PROSCAN	309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000	338, 327
(M. Ward)	
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

VCR Models

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Radio Models

Manufacturer	Code
Sony	230
Hamlin/Regal	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

Radio Receiver Models

Manufacturer	Code
Sony	801
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/	802, 808
PROSCAN	
Toshiba	806, 807

TV Models

Manufacturer	Code
Sony	764

Manufacturer	Code
Sony	763

*1 This manufacturer code might not work for the past obsolete models. The following FY03 STR & AVD models are capable of functioning with this code.

STR-DA9000ES/DA5000ES/
DA3000ES/DA2000ES/DA1000ES/
DE995/DE895/DE695/DE595
HT-C800DP
AVD-S500ES/S700ES

*2 This manufacturer code might not work for the past obsolete models. The following FY03 DAV models are capable of functioning with this code.
DAV-FC7/FC8/FC9

All Equipment

To Do This ...	Do This ...
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press VIDEO IN repeatedly to cycle through the video equipment connected to the TV's video inputs.
Set up the TV remote control to operate non-Sony equipment	You must program the remote control the first time you use it. See "Programming the Remote Control" on page 52.

Operating a VCR

To Do This ...	Press
Activate the remote control to operate the VCR	VCR/MEMO/PAUSE/STOP
Turn on/off	VCR/MEMO (POWER)
Change channels	CH
Record	▶ and ▶ simultaneously
Play	▶
Stop	□
Fast forward	▶▶
Rewind the tape	<<
Pause	⏸
Search the picture forward or backward	▶▶ or << during playback (release to resume normal playback)

Operating a Satellite Receiver

To Do This ...	Press
Activate the remote control to operate the satellite receiver	SAT/CFM (TVING) (ON)
Turn on/off	SAT/CFM (POWER)
Select a channel	CH (TV)
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 Cable Box

To Do This ...	Press
Activate the remote control to operate the cable box	BACKLIGHT (FUNCTION)
Turn on/off	BACKLIGHT (POWER)
Select a channel	UP/INC
Change channels	CH/TV
Back to previous channel	JUMP

Operating a DVD Player

To Do This ...	Press
Activate the remote control to operate the DVD	BACKLIGHT (FUNCTION)
Turn on/off	BACKLIGHT (POWER)
Play	▶
Stop	□
Pause	⏸
Step through different tracks of the disc	▶ to step forward or ◀ to step backward
Step through different chapters of a video disc	▶ to step forward or ◀ to step backward


Using this equipment

Overview

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

Topic	Page
Watching TV	58
Using Wide Mode	59
Using Twin View	60
Using Favorite Channels	63
Using the Freeze Function	64
Using Picture Off	65


Smart TV


 For a complete list of all the functions of the remote control, see page 50.


To Do This ...	Do This ...
Activate the remote control to operate the TV	Press TV INPUT OK
Turn on/off the TV	Press POWER
Tune directly to a channel	Press TV and then CH (or wait 2 seconds) Or Press CH
Adjust the volume	Press VOL +
Mute the volume	Press MUTE (press again to unmute)
Alternate back and forth between two channels	Press CH 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 83
Switch the TV's input between sources connected to the TV's VHF/UHF and AUX inputs	Press CH to alternate between sources connected to the TV's VHF/UHF and AUX inputs


Using Wide Mode


Wide Screen mode lets you watch 4:3 normal broadcasts in several Wide Screen modes (16:9 aspect ratio).

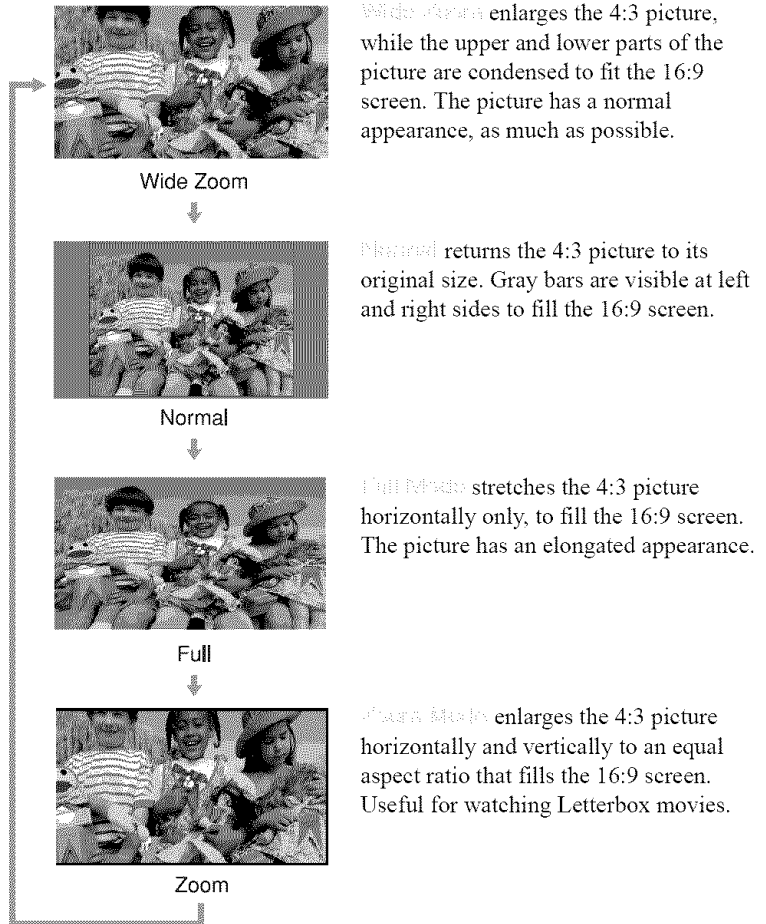
 **Wide Zoom** is recommended for 4:3 picture to prevent image retention.

 You can also access the Wide Mode settings in the Screen menu. For details, see page 88.

 When you change channels or inputs, the Wide Mode settings revert to the **Normal** setting in the Screen menu. To retain the current Wide Mode setting as channels and inputs are changed, set **Auto Return** to **Off**. For details, see page 89.



 **When viewing high-definition programs broadcast in 720p/1080i, it is not possible to change between Wide Screen modes.**

 Press **WIDE MODE** repeatedly to toggle through the following Wide Mode settings.




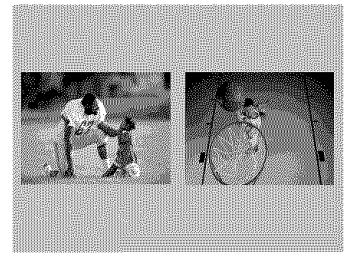
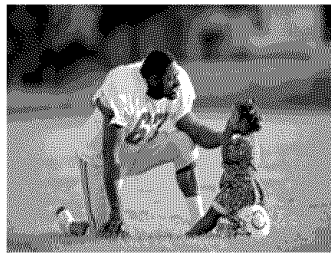
Using Twin View

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.

-  **The picture from an antenna will appear in the left window, but not in the right.**
-  **Using Twin View for an extended period of time may result in image retention.**

Displaying Twin Pictures

- 1 Tune the TV to a working channel.
 - 2 Press .
- A second picture appears.



To use Twin View, first tune to a working channel.

- 1 Press  or .

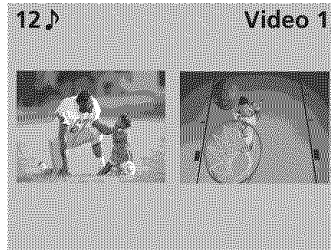
Factors Affecting Twin View

- If you use a cable box, you can view the cable box output in one window and view a different source (such as a VCR or DVD player) in the second window by using **TV/VIDEO**. For details, see “Connecting Optional Equipment” on page 29.
- TV channels as well as any sources connected to the **AUX**, **VIDEO 4**, **VIDEO 5**, and **VIDEO 6** inputs, display in the left window, but not the right.
- If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side, the 4:3 source appears larger.
- Twin View does not display channels that are blocked by parental settings (see page 92).

Activating the Picture

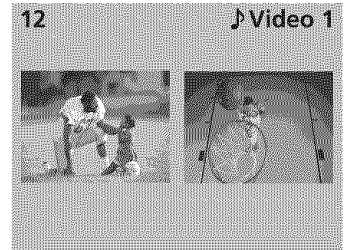
Press **CH** to activate the picture.

Press **CH**.



Press **CH** to activate the picture.

Press **CH**.



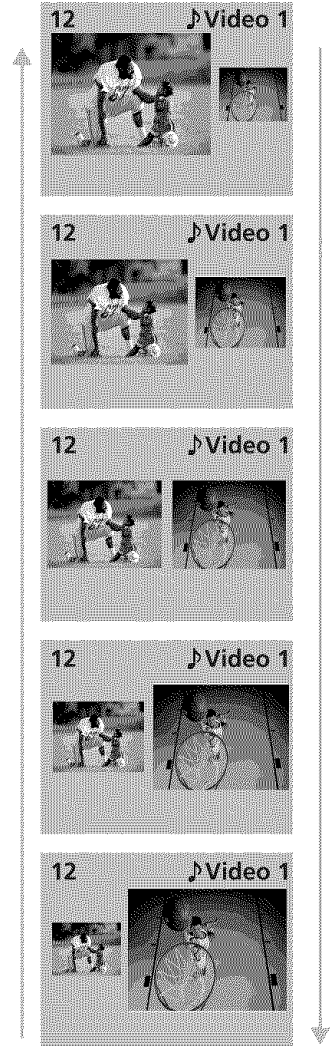
Press **CH** to activate the picture.

To Do This ...	Do This ...
Tune to a channel (left window only)	Press CH and then NUM (or wait 3 seconds) or Press CH .
Adjust the volume	Press VOL .
Mute the volume	Press MUTE (press again to unmute)
Switch the TV's input between sources connected to the TV's VHF/UHF and AUX inputs	Press AN .
Switch the TV's input between sources connected to the TV's A/V inputs	Press AV/VIDEO .
Change the picture size	Press + or - . (For details, see "Changing the Picture Size" on page 62.)

Changing the Picture Size

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


- Press **↔** or **↔** to activate the picture that you want to resize.
- Press **↔** to enlarge the picture.
- Press **↔** to make the picture smaller.



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


The Favorite Channels feature lets you select programs from a list of up to 16 favorite channels that you specify.

Creating a List of Favorite Channels

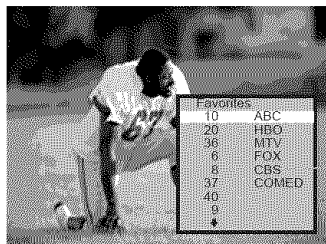
 For details on using the Channel Menu, see page 90.

- 1 Press **MENU** to display the Menu.
 - 2 Press **↑** or **↓** to highlight the Channel icon and press **(+)**.
 - 3 Press **(+)** to select **assign a Channel**.
 - 4 Press **(+)** to select **assign**.
 - 5 Press **↑** or **↓** to highlight a Favorite Channel number (1-16) and press **(+)**.
 - 6 Press **↑** or **↓** to highlight a channel you want to assign to the Favorite Channel number. A preview of the highlighted channel appears in the upper right of the screen. Press **(+)** to select that channel as a Favorite Channel.
 - 7 To add more channels to your favorites list, repeat steps 5-6.
- To clear a Favorite Channel, press **↑** or **↓** to highlight the channel you want to clear. Press **(+)** and then press **▶ ⓧ ◀**.
- 8 Press **MENU** to exit the Menu.

Displaying a List of Favorite Channels

 To assign Channel Labels (e.g., ABC, HBO, MTV, etc.) to channel numbers, as shown at right, use the Channel Label feature in the Channel Menu (see page 91).

- 1 Press **INFO** **▶** **ⓧ**. The Favorite Channels list appears.




Favorite Channels


- 2 Press **↑** or **↓** to highlight the channel you want to watch.
- 3 Press **(+)** to select the channel you want to watch.

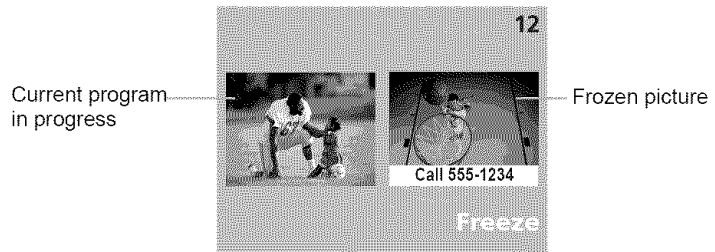
The Favorite Channels list disappears after 90 seconds if you do not operate the TV.



Using the Freeze Function

The Freeze function allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

 **The Freeze feature is not available while you are using the Twin View feature.**

- 1 When the program information you want to capture is displayed, press .
- 2 The TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



- 3 To cancel and return to normal viewing, press   (or just tune to another channel).

The "frozen" picture disappears automatically after 5 minutes.

Using Picture Off

The Picture Off feature lets you enjoy music from radio programs of digital broadcasts or DVDs with the TV screen turned off.

1 Press **PICTURE OFF**.

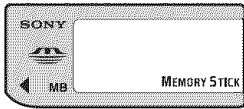
The PICTURE OFF LED lights up in blue and the screen turns off.

To cancel and return to normal viewing, press any button except for

POWER, **POWER**, **MEMO** and **MEMO**.

Using the Memory Stick Viewer

About Memory Stick



Memory Stick (sold separately) is a new, compact, portable, and versatile Integrated Circuit recording medium with a data capacity that exceeds that of a floppy disk. 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.

For more information about handling Memory Stick media, see “Precautions on Memory Stick, Memory Stick PRO” on page 82.

 **“Memory Stick”, “Memory Stick PRO”, “Memory Stick Duo” and “” are registered trademarks of Sony Corporation.**


Supported Image Types

This TV’s Memory Stick viewer can display still images and movies that have been recorded on Memory Stick media.

Supported Files

- Image files compressed in the JPEG format (DCF compliant) (with an extension, .jpg)
- MPEG1 files, MPEG MOVIE, MPEG MOVIE AD, MPEG MOVIE EX, MPEG MOVIE HQ, MPEG MOVIE HQX, MPEG MOVIE CV, VAIO Giga Pocket MPEG1.

 **JPEG stands for “Joint Photographic Experts Group,” which is the organization that implemented this format. DCF stands for “Design Rules for Camera File Systems,” which are specifications established by the Japan Electronics and Information Technology Industries Association (JEITA: former JEIDA).**

 **MPEG1 stands for “Motion Picture Experts Group” which is the organization that implemented this format and is the typical compression format for movie files.**

About Directory and File Names

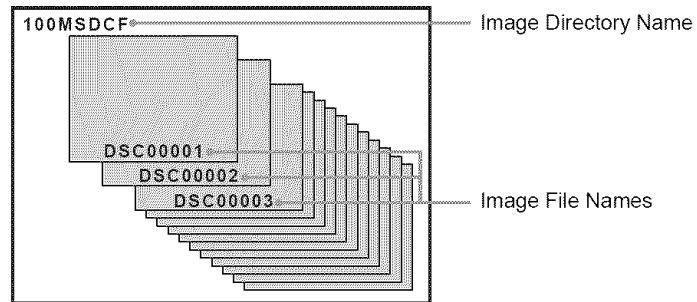
Most Sony brand digital still and video cameras automatically record still images using DCF compliant directory and file names, or record movies using the directory and file names as shown in the following examples:

Still image files

Example:

Directory Name: /DCIM/100MSDCF

File Name: DSC00001.JPG



Movie files

Example:

Directory Name: /MS SONY/MOML0001

File Name: MOV00001.MPG

Unsupported Image Types

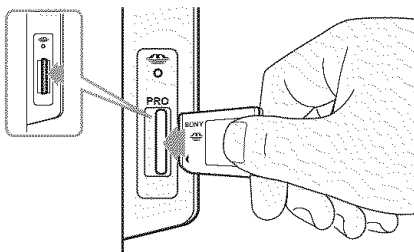
This TV's Memory Stick viewer cannot display any of the following:

- ❑ Images stored in TIFF or any other non-JPEG or non-MPEG compression format
- ❑ Images with less than 16 horizontal and/or vertical dots per line
- ❑ Images with more than 4096 horizontal and/or vertical dots per lines
- ❑ An image processed by a computer may not be displayed correctly.

If you are using a Memory Stick Duo, see “Inserting the Memory Stick Duo” on page 70.

Inserting a Memory Stick

- 1 Locate the Memory Stick slot 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.**

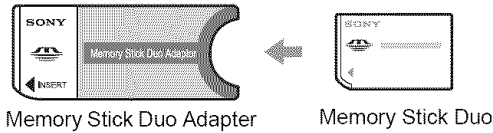
To remove the Memory Stick, see “Removing a Memory Stick” on page 71.

Inserting the Memory Stick Duo

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

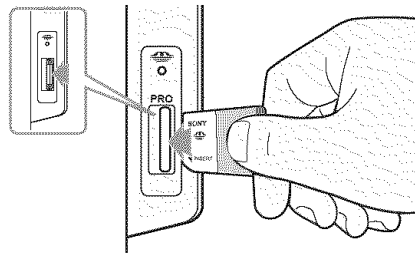
CAUTION: Inserting the Memory Stick Duo incorrectly may result in permanent damage to the Memory Stick Duo and the TV.

- Before inserting a Memory Stick Duo into the TV's Memory Stick slot, you must first insert the Memory Stick Duo into an adapter (sold separately).



CAUTION: Inserting the Memory Stick Duo into the Memory Stick slot without the adapter may result in permanent damage to the Memory Stick Duo and the TV.

- Insert the Memory Stick Duo and adapter as shown below.



CAUTION: Inserting the Memory Stick adapter backwards or upside down may result in permanent damage to the Memory Stick adapter and the TV.

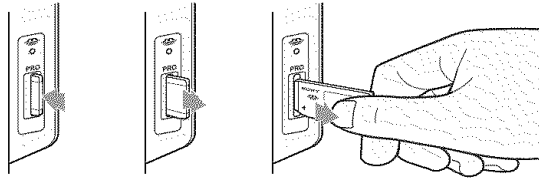
To remove the Memory Stick Duo, see "Removing a Memory Stick" on page 71.

Removing 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 indicator on the TV's right 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.



💡 When removing the Memory Stick, do not attempt to just pull it from its slot. Follow steps 1-3 (right).


- 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.

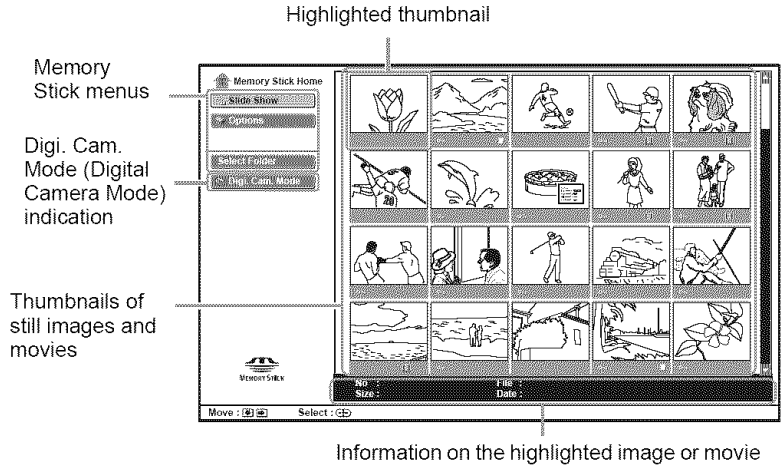
Displaying the Memory Stick Home (Memory Stick Home)

Turn on your TV and insert a Memory Stick that contains the still image or movie files you want to view. For details on inserting a Memory Stick, “Inserting a Memory Stick” on page 69.




The Memory Stick Home appears, which displays thumbnails of still image and movie files stored on the Memory Stick.

💡 If the Memory Stick Home does not appear, press  (Memory Stick) on the remote control.

💡 The display of the Memory Stick viewer will automatically disappear if you do not operate the TV for five minutes.







about the icons in the thumbnail images

	(Movie)	Indicates the thumbnail is a movie (MPEG1) file.
	(Protect)	Indicates the thumbnail is protected. Protected files cannot be changed or deleted. For details, see “Using the Index Menu” on page 73.
	(Relative file)	Indicates another file named the same in the last four digits exists in the Memory Stick. Appears only when the Digi. Cam. Mode is selected.

about the Digi. Cam. Mode (Digi. Cam. Mode)

Digi. Cam. Mode displays all JPEG and MPEG1 files recorded with the DCF compliant digital cameras. When you set **Digi. Cam. Mode** to **On**, the data of selected files or all files with the extension .jpg or .mpg can be displayed. The Memory Stick viewer of this TV sets **Digi. Cam. Mode** to **Off** at the factory. When **Digi. Cam. Mode** is set to **On**, the maximum 2000 pieces of still images and/or movies can be displayed. When you want to display more than 2000 pieces of still images and/or movies, set **Digi. Cam. Mode** to **Off**. To set **Digi. Cam. Mode** to **Off**, see “Select Folder Menu Options” on page 80.

about the icons

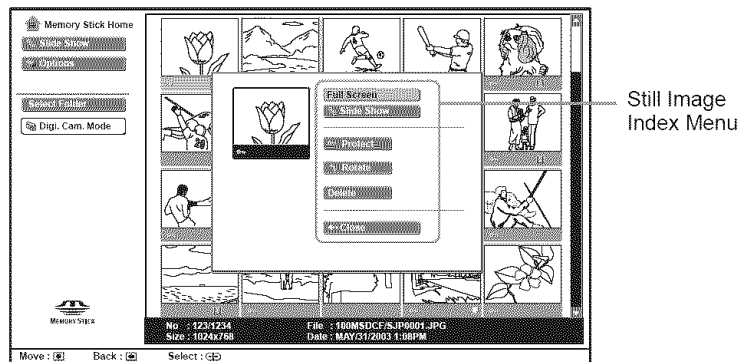
	This image data is the JPEG or MPEG1 format that is not-compatible.
	There is the thumbnail but it is not DCF-compatible.
	There is the image data but the thumbnail is broken.
	The image data is broken.

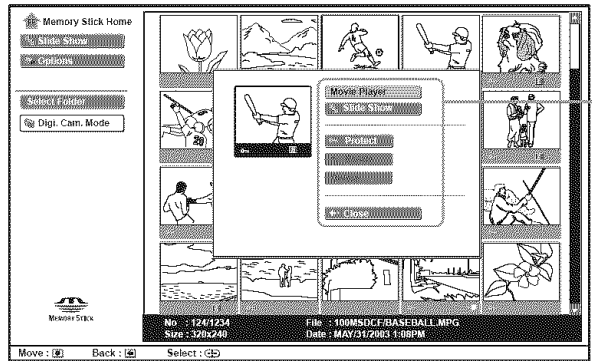
To Do This ...	Do This ...
Select the thumbnails	Press [Left] .
Move the highlight to an image or movie thumbnail	Press [Up] , [Down] , [Left] , or [Right] .
Display the previous or next page of thumbnails	<ul style="list-style-type: none"> 1 Select a file in the bottom row. 2 Press [Left]. To go back to the previous page, press [Left]. or 1 Select a file in the right-most column. 2 Press [Right] to select a slider. 3 Press [Left]. To go back to the previous page, press [Left].
Display the Index menu of the highlighted image or movie file to access additional options	Press [+] . For details on each Index menu, see "Using the Index Menu" on page 73.
Move the highlight to the Memory Stick menus to access additional options	<ul style="list-style-type: none"> 1 Press [Left] or [Right] to select All Functions, Options or Select Filter. 2 Press [+]. <p>For details on these options, see "Memory Stick Home Menu Options" on page 79.</p>
Exit Memory Stick Viewer	Press [Memory Stick] (Memory Stick) on the remote control.

Using the Index Menu

When you select a still image or movie from the Memory Stick Home (see page 72), the Index menu appears with the following options. Press **[Left]** or **[Right]** to select the desired option.

Still Image Index Menu



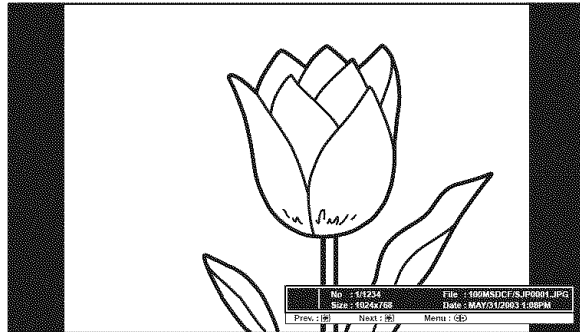


Movie Index Menu

Option	Description
Full Screen (Still image index menu only)	Displays the highlighted image file full screen. For details, see “Viewing Still Images” on page 75.
Movie Index Menu (Movie index menu only)	Display the Movie Player. For details, see “Playing Movies” on page 77.
Slide Show	Starts the slide show from the highlighted still image or movie.
Protect	Allows you to protect the JPEG or MPEG1 file from any changes. Files that are protected are indicated by the icon.
	Protects the highlighted file.
	Unlock the protect of the highlighted file.
Rotate (Still image index menu only)	Allows you to rotate a still image in 90 degree increments clockwise or counterclockwise. Select (clockwise) or (counterclockwise). You cannot rotate a still image that has been protected (or if the Memory Stick is locked). This option is not available for a movie file.
Delete	Deletes the JPEG or MPEG1 file from the Memory Stick. You cannot delete a file that has been protected (or if the Memory Stick is locked).
	Deletes the highlighted file.
	After you select the option, the dialog appears. Select Yes .
Home	Displays the Memory Stick Home. Pressing also returns to the Memory Stick Home.

Viewing Still Images

When you select **Still Viewer** from the Still image index menu and press **(+)**, it displays as shown below.



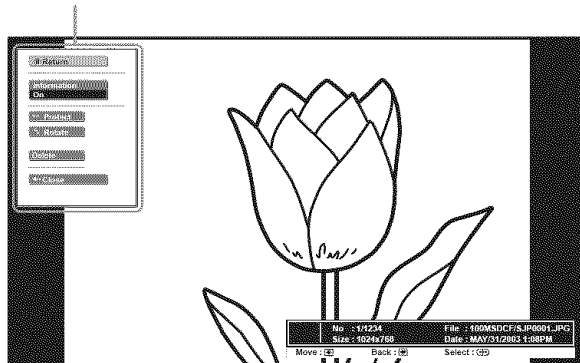
To Do This ...	Do This ...
Display the next or previous file on the Memory Stick	Press [right arrow] to go to the next file, or [left arrow] to go to the previous file.
Access additional options	Press (+) . For details, see “Image Setup Menu Options” on page 75.
Exit Memory Stick Viewer	Press [Memory Stick icon] (Memory Stick) on the remote control.

Image Setup Menu Options

To view the image setup menu:

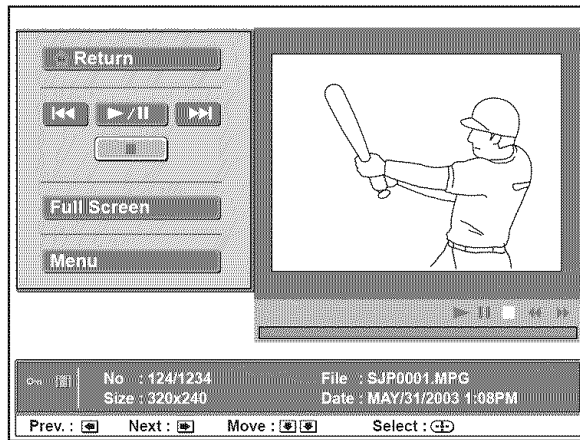
- 1 Press **[right arrow]** or **[left arrow]** to select the menu option.
- 2 Press **(+)**.
- 3 Press **[right arrow]** or **[left arrow]** to select the desired option.

Image setup menu



Option	Description
Home	Displays the Memory Stick Home.
Information	Allows you to turn on or off the display of file information. Select On or Off .
Protect	Allows you to protect this file from any changes. Selecting Off unlocks the protect.
Rotate	Allows you to rotate a still image in 90 degree increments clockwise or counterclockwise. If the file has been protected (or if the Memory Stick is locked), it cannot be rotated. Select ⌵ (clockwise) or ⌶ (counterclockwise).
Delete	Deletes the displayed file from the Memory Stick. Select Selected Items and press (+) . When the dialog appears, select Yes . If the file has been protected (or if the Memory Stick is locked), it cannot be deleted.

When you select Movie Player from the Movie index menu, it displays as shown below.



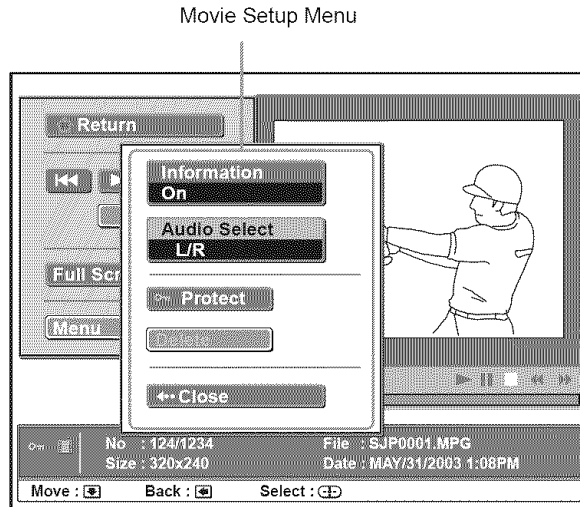
To Do This ...	Do This ...
Play (or pause) the movie.	<ul style="list-style-type: none"> 1 Press ▶ or ⏸ to select ▶/⏸. 2 Press ⏪.
Display the previous file on the Memory Stick	<ul style="list-style-type: none"> 1 Press ⏪ during movie stop mode. 2 During playback or pause mode the control changes to ⏪ (Rewind).
Display the next file on the Memory Stick	<ul style="list-style-type: none"> 1 Press ⏩ during movie stop mode. 2 During playback or pause mode the control changes to ⏩ (Fast-forward).
Stop playback.	<ul style="list-style-type: none"> 1 Press ▶ or ⏸ to select ▶/⏸ and press ⏪.
Display the movie full screen	<ul style="list-style-type: none"> 1 Press ▶ or ⏸ to select Full Screen and press ⏪. 2 To display the Movie Player window, press ⏪.
Display the Movie setup menu to access additional options	<ul style="list-style-type: none"> 1 Press ▶ or ⏸ to select Menu. 2 Press ⏪. <p>For details, see “Movie Setup Menu Options”.</p>
Displays the Memory Stick Home.	<ul style="list-style-type: none"> 1 Press ▶ or ⏸ to select Home. 2 Press ⏪.

💡 When displaying a large file, it will take longer time.

The rewind and fast-forward may not work due to the movie file.

Movie Setup Menu Options

1. Press **Return** or **OK** to select the menu option.
2. Press **+**.
3. Press **Return** or **OK** to select the desired option.



Option	Description
Information	Allows you to turn on or off the display of file information. Select On or Off .
Audio Select	Switches the sound to be heard. Select L (left sound), R (right sound) or L/R (left and right sounds) to hear the respective sound(s). The setting affects all movie files.
Protect	Allows you to protect the file from any changes. Select On to protect. Select Off to unlock the protect.
Delete	Deletes the displayed file from the Memory Stick. Select Yes and press + . When the dialog appears, select Yes . If the file has been protected (or if the Memory Stick is locked), it cannot be deleted.

Memory Stick Home Menu Options

The Memory Stick Home lets you select the Slide Show, Options and Select Folder menus that include additional options for each menu.

1. Press **Home** to display the Memory Stick Home menu.

2. Press **Left** or **Right** to select **Slide Show**, **Options** or **Select Folder**.

3. Press **Enter**. The setup menu appears.

4. Press **Left** or **Right** to select the desired option and press **Enter**.











Slide Show Menu Options

The Slide Show menu includes the following menu options.

Option	Description	
Start	Starts the slide show. Slide show plays all still and movie files. To stop the slide show, press Enter .	
Advanced	Advanced	Advances slides automatically. Slide show repeats after all files are displayed. Press Enter to stop the slide show.
Manual	Manual	Advances slides manually. Press Left or Right on the remote control to go to the next or previous still or movie image file. Select Play/Pause to play movie files in the Movie Player window.
Interval (only for still images)	Allows you to specify a timed slide advance after a selected time interval. Select from 5 sec , 10 sec , 30 sec , 1 min and 5 min .	
Close	Displays the Memory Stick Home.	

Options Menu Options

The **Options** Menu includes the following options.

Option	Description
	The File option is available when Digital Scan Mode is set to  . For details, see “Using Select Folder Menu” on page 81.
	Allows you to change the order in which the Memory Stick files are displayed. Select from Name Order  (in alphabetical order by file name), Name Order  (in reverse alphabetical order by file name), Date Order  (in chronological order by recording or modification date) and Date Order  (in reverse chronological order by recording or modification date).  The Sort function works only when fewer than 2000 files are saved.
	Allows you to selectively display specific file types within the selected folder. Select from Show Still (only still image files), Show Movies (only movie files), and  (all readable files).
Memory Stick	Displays the current status of the Memory Stick, including Memory Stick type, total capacity, used capacity, and free capacity.

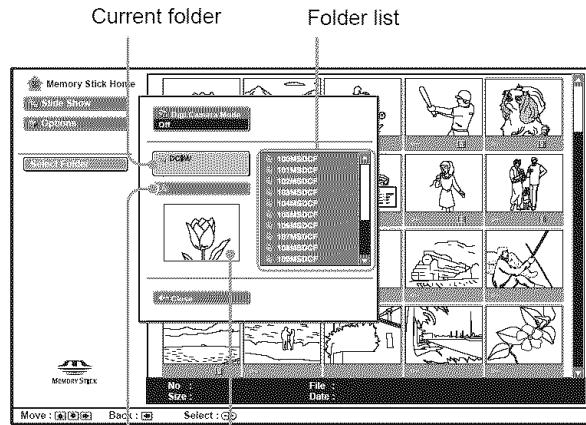
Select Folder Menu Options

The **Select Folder** Menu includes the following options.

Option	Description
Digital Scan Mode On	Displays only JPEG and MPEG1 files defined by the DCF rules and JPEG and MPEG1 files recorded on a Sony digital still camera or digital video camera.
Off	Displays all folders within the directories. JPEG and MPEG1 files in those directories are recognized even if they do not conform to the DCF file naming rules.

Using Select Folder Menu

Allows you to select different folders to view in the Memory Stick Viewer when you set **File Oper. Menu** to **Off**.



To upper stage

First image or movie file in the current folder

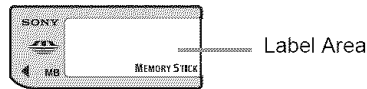
💡 To select the hidden folders, press **⇦** to select the slider and press **⇨** or **⇩**.

- 1 Select **Off** in **File Oper. Menu**.
- 2 Press **⇨** to select the folder list.
- 3 Press **⇦** or **⇩** to select the folder which includes the file you want, and press **(+)**.

**Precautions on
Memory Stick,
Memory Stick PRO**

When using Memory Stick media, Memory Stick PRO, 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.
- ☐ Memory Stick PRO of maximum 1GB-memory can be used for this unit.

Using the Menus


Overview

The Menu gives you access to the following features:

Menu Icon	Description	Page
	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.	84
	Offers enhanced audio options such as listening to second audio programming (SAP) or customizing the Effect of the sound on your TV.	86
	Allows you to make Wide Mode adjustments and make changes to the screen's vertical center, and more.	88
	Allows you to set up a Favorite Channel list, run the Auto Program function, skip and label channels, and more.	90
	Lets you control the viewing of programs based on their ratings.	92
	Provides options for setting up your system, including setting the Timer, selecting closed caption modes, labeling video inputs, selecting the language of the on-screen menus, and more.	95

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

Using the Navigation Buttons

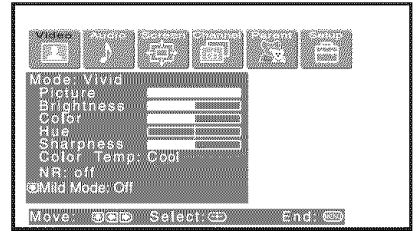
 Menus include navigation help text that appears at the bottom of each Menu.

To Do This ...	Press
Display the Menu	MENU
Move through the Menu	← →
Move through the Menu options	↶ ↷
Select an option to change	+
Change an option's settings	← →
Select (confirm) changed setting	+ or ↵
Exit the Menu	MENU



Using the Video Menu

- 1 Press **MENU**.
- 2 Press **←** or **→** to highlight the Video icon and press **(+)**.
- 3 Press **←** or **→** to highlight 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.



For information on how to use the TV and how to use the Video Menu, refer to the following sections: "Using the TV" and "Using the Video Menu".

- 1 Press **VIDEO** on the remote control when in the Video Menu.

Selecting Video Options

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

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
Mode	Vivid Select for enhanced picture contrast and sharpness.
Customized picture viewing	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	Cool Select to give the white colors a blue tint.
White intensity adjustment	Neutral Select to give the white colors a neutral tint.
	Warm Select to give the white colors a red tint.
NR	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, Off.
Noise Reduction	
Mid Mode	On Select for a natural, soft picture.
	Off Select to turn off the MID MODE .

⚡ DRC Matrix and DRC Matrix are not available when watching 480p, 720p, and 1080i sources.

⚡ DRC Matrix is not available when Mild Matrix is set to On.

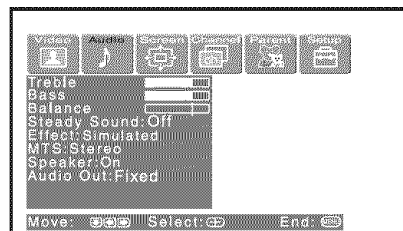
⚡ For best results, adjust the Reality by pressing **↑**/**↓** until you are satisfied with the level of detail. Then adjust the Clarity by pressing **←**/**→** until you have a smooth image.

Option	Description
Advanced Video	Select Program to choose among the DRC Matrix , DRC Matrix , and Mild Matrix options while viewing NTSC sources.
DRC Matrix	Creates a high-resolution picture with 4× density, for high quality sources (i.e., DVD player, satellite receiver). <ul style="list-style-type: none"> High Tone Recommended for moving pictures. High Contrast Recommended for still images and text. Optimized 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 Matrix	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. <ul style="list-style-type: none"> 1 Press ▶/◀ to highlight Custom 1, Custom 2, or Custom 3 and then press +. The DRC palette appears. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Custom 1 [25]</p> <p>Reality ● </p> <p>Clarity [1]</p> </div> <ul style="list-style-type: none"> 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 +. <p>To return the Custom options to the default factory settings, press ▶/◀.</p>
DRC Smoother	Select to reduce noise caused by video encoding and decoding process. It is especially effective for watching a DVD or HDTV picture. Select from High , Medium , Low and Off .



Changing the Audio Menu

- 1 Press **MENU**.
- 2 Press **←** or **→** to highlight the Audio icon and press **(+)**.
- 3 Press **←** or **→** to highlight 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.



- 6 Press **PS** on the remote control when in the Audio Menu.

Selecting Audio Options

To change quickly from one MTS to another, use **MTS/SAP** on the remote control.

The Audio Menu includes the following options:

Option	Description	
Treble	Adjust to decrease or increase higher-pitched sounds.	
Bass	Adjust to decrease or increase lower-pitched sounds.	
Balance	Adjust to emphasize left or right speaker balance.	
Steady Sound	Auto	Select to stabilize the volume.
	Off	Select to turn off Steady Sound.
Speaker	Surround	Select for surround sound (for stereo programs only).
	Simulated	Adds a surround-like effect to mono programs.
	Off	Normal stereo or mono reception.
MTS	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.)



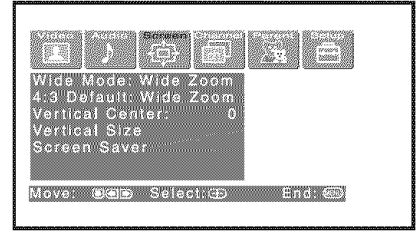
Option	Description	
Speakers	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.
Audio Out Easy control of volume adjustments	This option can be set only when the <i>Speakers</i> option is set to <i>Off</i> .	
	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.



Using the Screen Menu

to select the Screen Menu

- 1 Press **MENU**.
- 2 Press **←** or **→** to move to the Screen icon and press **ENTER**.
- 3 Press **←** or **→** to move to an option. Press **ENTER** to select an option.
- 4 Press **↑** or **↓** to change settings. Press **ENTER** to select the changed setting.
- 5 Press **MENU** to exit the Menu.



Selecting Screen Mode Options

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

Screen Area 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 89.

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 the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.
Normal	Select to return the 4:3 picture to normal mode.
Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
Area	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.

Wide Mode is unavailable while in Twin View, or when viewing HD (1080i, 720p) sources.

In some cases, wide-screen programs will be shown in aspect ratios that require the display of black bands at the top and bottom of your 16:9 screen. For more details, see page 104.

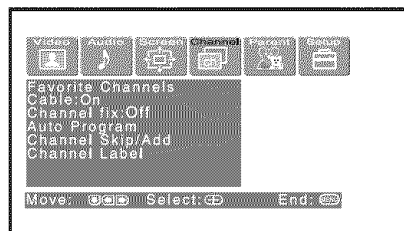
 If **4:3 Default** is set to anything but **Off**, the **Wide Mode** setting changes only for the current channel. When you change channels (or inputs), **Wide Mode** is automatically replaced with the **4:3 Default** setting. To retain the current **Wide Mode** setting as channels and inputs are changed, set **4:3 Default** to **Off**.

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 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.
	Normal	Select to return the 4:3 picture to normal mode.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
	Off	Select to continue using the current Wide Mode setting when the channel or input is changed.
Vertical Position	Adjust	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 +15 and -15 (Zoom mode), and +5 and -5 (Wide Zoom mode).
	Adjust	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 +7 and -7.
Retain Screen	Off	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



- 1 Press **MENU**.
- 2 Press **→** or **←** to highlight the Channel icon and press **+**.
- 3 Press **→** or **←** to highlight 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 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 63.
Cable	<p>On Select if you are receiving cable channels with a CATV cable.</p> <p>Off Select if you are using an antenna.</p> <p>⚡ You should run Auto Program after changing this option.</p>
Channel Fix	<p>Off Turns off Channel Fix.</p> <p>2-6 “Fix” your TV’s channel setting to 2-6 and use the cable box or satellite receiver to change channels. Select one of these settings if you connected the equipment to the VHF/UHF jack.</p> <p>AUX 2-6 Same as 2-6, except you select one of these settings if you connected the equipment to the AUX jack (see page 19).</p> <p>VHF/UHF Use this setting if you have connected the equipment to the A/V input jacks.</p>
Auto Program	Automatically sets up the channel list on the TV for all receivable channels.

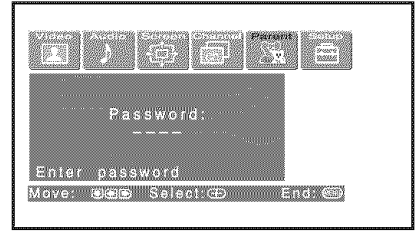
 Channels that you set to be skipped can be accessed only with the  buttons.

 Channel Label is not available (grayed out) when watching 480p, 720p, and 1080i sources.

Option	Description
Channel Skip/Skip	<p>Allows you to customize the channel list that appears when you use the  buttons.</p> <ul style="list-style-type: none">  Press  or  to scroll through the channels until you find the channel you want to skip or add. Then press  to select it.  Press  or  to toggle between  or . Then press  to select.  To add or skip more channels, repeat steps 1 and 2.  Press  to return to the Channel Menu, or press  to exit the Menus.
Channel Label	<p>Allows you to assign labels (such as station call letters) to channel numbers. You can label up to 40 channels.</p> <ul style="list-style-type: none">  Press  or  to highlight Channel and press .  Press  or  to scroll through the channel numbers (1-125). Then press  to select the channel number that you want to assign a label.  Press  or  to highlight Label and press .  Press  or  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 1-4.  Press  to return to the Channel Menu, or press  to exit the Menus.



The Parent Menu allows you to set up the TV to block programs according to their content and rating levels.



1. Press **MENU**.

2. Press **Left** or **Right** to highlight the Parent icon and press **Enter**.

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 Parent Menu options appear.)

5. Press **Left** or **Right** to change settings. Press **Enter** to select the changed setting.

6. Press **MENU** to exit the Menu.

⚠ You need your password for any future access into the Parent Menu. If you lose your password, see "Lost password" on page 106.

Selecting Parent 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 93.

The Parent Menu includes the following options:

Option	Description
Parental lock	<input type="checkbox"/> Off Parental lock is off. No programs are blocked from viewing.
Turn ratings on/off and select a rating system	<input type="checkbox"/> Child Maximum ratings permitted are: <input type="checkbox"/> US: TV-Y, TV-G, G <input type="checkbox"/> Canada: C, G, TV-Y
	<input type="checkbox"/> Youth Maximum ratings permitted are: <input type="checkbox"/> US: TV-PG, PG <input type="checkbox"/> Canada: C8+, PG, 8 ans+, TV-PG
	<input type="checkbox"/> Y-Adult Maximum ratings permitted are: <input type="checkbox"/> US: TV-14, PG-13 <input type="checkbox"/> Canada: 14+, 13 ans+, TV-14
	<input type="checkbox"/> Custom Select to set ratings manually. <input type="checkbox"/> US: See page 93 for details. <input type="checkbox"/> Canada: See page 94 for details.
Change Password	For changing your password.
Select Country	<input type="checkbox"/> U.S.A. Select to use USA ratings (see page 93). <input type="checkbox"/> Canada Select to use Canadian ratings (see page 94).

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 14** (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 94.)

Option	Description
 View 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 R No one 17 or under allowed.
 Block programs by their rating, content or both	Age-Based Ratings
 Block programs by their rating, content or both	TV Y All children.
	TV 7 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.
 Block programs or movies that are broadcast without a rating	Content-Based Ratings
	FV Fantasy Violence.
	D Suggestive Dialogue.
	L Strong Language.
	S Sexual situations.
V Violence.	
 Block programs or movies that are broadcast without a rating	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 **ENTER** when tuned to a blocked program, then enter the password. This temporarily switches off the 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 93.)

Option	Description	
English Rating	CC	All children.
	CC+	Children 8 years and older.
	G	General programming.
	PG	Parental Guidance.
	TV	Viewers 14 and older.
	TV	Adult programming.
French Rating	G	General programming.
	Recommandé	Not recommended for young children.
	13 ans et +	Not recommended for ages under 13.
	16 ans et +	Not recommended for ages under 16.
	18 ans et +	Programming restricted to adults.
U.S.A. Rating	See "US Models" on page 93 for details.	

Viewing Blocked Programs

You can view blocked programs by entering the password. Press **INPUT** when tuned to a blocked program, then enter the password. This temporarily switches off the 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.



Setting the Setup Menu

1. Press **MENU**.

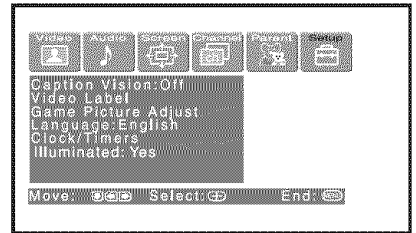
2. Press **MENU**.

3. Press **←** or **→** to highlight the Setup icon and press **+**.

4. Press **←**, **→**, **↑**, or **↓** to highlight an option. Press **+** to select an option.

5. Press **←**, **→**, **↑**, or **↓** to change settings. Press **+** to select the changed setting.

6. 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 three closed caption modes (for programs that are broadcast with closed caption).
CC	Turns off Caption Vision.
CC-1, CC-2, CC-3, CC-4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC-1 for most programs.)
Info1, Info2, Info3, Info4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC-1 .
Info	Displays the program name and the time remaining in the program (if the broadcaster offers this service). Displays when the channel is changed or DISPLAY is pressed.

(Continued)




 When selecting **Auto**, or **Web**, the TV decreases brightness to prevent image retention.

 The **Skip** label is useful for inputs that do not have equipment connected to them.

Option	Description
Video Label	<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> <ul 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.

You can select from the following labels for each input:

Video 1-3	VCR, DVD, DVB-Cable, Satellite, Cable Box, Home, PC, Games, HD, Web, Home, skip
Video 4-6	PC, Satellite, Cable Box, DVD, HD, Games, skip

 **If you select Skip, your TV skips this input when you press the TV/VIDEO button.**

Picture Position	Adjust	Allows you to move the position of the picture left and right in the window. (Available for the picture of connected equipment.) Select while watching the picture to be adjusted. The TV stores the position in memory for each input.
Language		Select to display all on-screen Menus in your language of choice; English, French or Spanish.

💡 To go directly to programming **Timer 1** or **2**, press **+** instead of pressing **OK**.

Option	Description
Clock Timer	Lets you set the clock on your TV and allows you to program your TV for scheduled viewing using the Timers.
Sleep	Allows you to select the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically.
Timer 1 Timer 2	<p>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.</p> <p>Timer 1 & 2 are not available to be set until you set the Current Time.</p> <ol style="list-style-type: none"> 1 Press OK or + to highlight Timer 1 or Timer 2. To set the timer, press OK. 2 Press OK or + to highlight one of the following options, then press +. <ul style="list-style-type: none"> Program Select to set the Timer by day, time, duration, and channel. Off Select to turn off the Timer. (Your previous settings are saved.) 3 If you selected Program in step 2, press OK and + to set the day(s), hour, minute, duration, and channel number. Press + or press OK to confirm each setting and move to the next setting. Press OK 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	<ol style="list-style-type: none"> 1 Press OK and + to highlight Current Time and then press +. 2 Press OK and + to set the current time (day, hour, and minute). Press + (or press OK) to confirm each setting and move to the next setting. Press OK to go back to the previous setting. 3 Press MENU to exit the Menu.

Option	Description
Allow product	Allows you to illuminate the Sony logo on the front panel of the TV.
Yes	Illuminates the Sony logo while the power is turned on.
No	Illuminates the Sony logo only when the power is switched to on or off.

Customer Information

Overview

This chapter includes the following topics:

Topic	Page
Glossary	100
Contacting Sony	101
Troubleshooting	101
Specifications	107
Optional Accessories	109
Index	110

Amplitude Modulation

Amplitude Modulation

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



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

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

Federal Communications Commission



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.

Radio Frequency

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

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).

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).

Twin View

Problem	Possible Remedies
I cannot get Twin View to work	<ul style="list-style-type: none"> <li data-bbox="394 486 1227 572">❑ If you are using a cable box to unscramble all channels (as shown on page 27), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time. <li data-bbox="394 572 1227 657">❑ 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 [TWIN] while in Twin View. <li data-bbox="394 657 1227 725">❑ Sources connected to the CABLE, VIDEO 4, VIDEO 5, and VIDEO 6 inputs, as well as digital sources, display in the left Twin View window, but not the right.
There is no Twin View window, or it is just static	<ul style="list-style-type: none"> <li data-bbox="394 725 1227 777">❑ Be sure the Twin View window is set to a video input or channel that has a signal airing. <li data-bbox="394 777 1227 845">❑ You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing [VIDEO].
Twin View cannot display anything but TV channels	<ul style="list-style-type: none"> <li data-bbox="394 845 1227 913">❑ Try cycling through the video inputs by pressing [VIDEO]. Check that the Video List option is not set to Skip. (See the Setup Menu on page 96.)
Twin View displays the same program in both windows	<ul style="list-style-type: none"> <li data-bbox="394 913 1227 980">❑ 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 TV FUNCTION. You may have inadvertently pressed SATELLITE FUNCTION, which changes the remote control to SAT or CABLE mode. <input type="checkbox"/> Make sure this unit's power cord is connected securely to the wall outlet. <input type="checkbox"/> Locate the unit 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 TV FUNCTION. <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 90). <input type="checkbox"/> If you are using another device to change channels, be sure to press FUNCTION for that device. For example, if you are using your cable box to change channels, be sure to press SATELLITE FUNCTION.
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.

Memory Stick

Problem	Possible Remedies
Image does not display	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure the Memory Stick is inserted properly (see page 69). <input type="checkbox"/> Memory Stick functions are not available while using Twin View, Freeze or Favorite Channel functions. <input type="checkbox"/> Press the MEMORY STICK button (see page 72). <input type="checkbox"/> Make sure that the photo or movie files are contained in the Memory Stick. <input type="checkbox"/> Set Digi. Cam Mode to Off and select the folder when the still image or movie is processed by the computer.
"No Memory Stick" is displayed.	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure the Memory Stick is inserted properly (see page 69).
"Memory Stick error" is displayed.	<ul style="list-style-type: none"> <input type="checkbox"/> The Memory Stick is not correct. Remove the Memory Stick and insert it again (see page 69). <input type="checkbox"/> The Memory Stick may be broken. Insert another Memory Stick.
"File error" is displayed.	<ul style="list-style-type: none"> <input type="checkbox"/> A name of the selected file is not correct.
"Format error" is displayed.	<ul style="list-style-type: none"> <input type="checkbox"/> The Memory Stick is not formatted correctly. Format correctly with other equipment such as a digital camera or insert another Memory Stick formatted correctly.
"Cannot play" is displayed.	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure that the still image or movie files to be played back are contained in the Memory Stick. <input type="checkbox"/> Set Digi. Cam Mode to Off and select the folder.

Problem	Possible Remedies
"Memory Stick type error" is displayed.	<ul style="list-style-type: none"> A Memory Stick not available for use with this TV is inserted.
"No files that can be displayed" is displayed.	<ul style="list-style-type: none"> The still image or movie image to be played back is not contained when the File Mode is set to Off.
"No files in this folder that can be displayed" is displayed.	<ul style="list-style-type: none"> The still image or movie image is not contained in the selected folder when the File Mode is set to Off.
"Memory Stick Locked" is displayed.	<ul style="list-style-type: none"> The Memory Stick is locked. Unlock the Memory Stick.
"No movie file" is displayed.	<ul style="list-style-type: none"> Show Movie is selected from Option of the Option menu. However there is no movie file in the folder.
"No still file" is displayed.	<ul style="list-style-type: none"> Show Still is selected from Option of the Option menu. However there is no still file in the folder.
Cannot use Memory Stick Duo	<ul style="list-style-type: none"> Check that the Memory Stick Duo and adaptor are inserted correctly.
Blank square appears instead of a thumbnail image	<ul style="list-style-type: none"> This indicates that the image does not support a thumbnail view. Selecting the icon, however, displays the full-size image on the screen. It could also indicate that both the thumbnail and full-size images are corrupted or not supported.
Cannot rotate image, no thumbnail appears	<ul style="list-style-type: none"> Be sure the LOCK switch on the Memory Stick is set to off. If a blank square appears instead of the thumbnail image, this indicates that the image does not support a thumbnail view and cannot be rotated.
Cannot hear audio while using Memory Stick	<ul style="list-style-type: none"> There is no audio available while using Memory Stick.
Image file name does not appear; instead, dashes (--) appear	<ul style="list-style-type: none"> Dashes appear instead of the file name if the image was recorded using equipment that is not DCF-compliant. Dashes also appear if a DCF-compliant file was renamed.

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 POWER on the right side of the TV. ❑ Press TV/VIDEO to cycle through the connected video sources. ❑ Try another channel; it could be station trouble. ❑ Press PICTURE so that the PICUTRE OFF LED on the display unit goes off.
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 84). ❑ Adjust the Brightness option in the Video Menu (see page 84). ❑ Check the antenna/cable connections.
No color	<ul style="list-style-type: none"> ❑ Adjust the Color option in the Video Menu (see page 84).
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 ANTI to change the input mode (see page 51).
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.
“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. To turn off this feature, set the Caption Select option to Off. If you were trying to select closed captioning, select CC1 instead of Text 1-4.
Black bands 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 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).
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.
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.
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 menu (see page 85) to optimize the picture while viewing these sources.

Audio

Problem	Possible Remedies
Good picture, no sound	<ul style="list-style-type: none"> ❑ Press PAUSE so that PAUSE disappears from the screen (see page 50). ❑ Make sure the Speaker option is set to On in the Audio Menu (see page 87).
Audio noise	<ul style="list-style-type: none"> ❑ Communication problems may occur if the infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Please use headphones other than infrared cordless headphones. Also, if you use the infrared communication equipment other than infrared cordless headphones, move the infrared transceiver away from the TV until the noise is eliminated, or move the transmitter and receiver of the infrared communication equipment closer together.
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none"> ❑ Increase the volume of the cable box using the cable box's remote control. Then press TV INPUT ON and adjust the TV's volume.
Sound seems weak or insufficient	<ul style="list-style-type: none"> ❑ The TV's audio might be set to Auto Off or Mute, when it might be better set to Standby. In the Audio Menu (see page 86), set the MR setting to Standby. If already set to Standby, switch to Mute (which may reduce background noise during weak stereo broadcasts).
Cannot raise the volume on external speakers	<ul style="list-style-type: none"> ❑ 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 87). Or, to use the TV remote control, set the Audio Out option to Variable. ❑ To turn on the TV speakers, set the Speaker option to On (see page 87).

Channels

Problem	Possible Remedies
Cannot receive upper channels (UHF) when using an antenna	<ul style="list-style-type: none"> ❑ Change the Channel option to Off (see page 90). ❑ Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 90).
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 90). ❑ Check your Channel Fix settings (see page 90).
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 90). ❑ Make sure the Channel option is set to On in the Channel Menu (see page 90).
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 90).

General

Problem	Possible Remedies
How to restore Video settings to factory settings	❑ Press ⏏ on the remote control while in the Video Menu (see page 84).
How to restore Audio settings to factory settings	❑ Press ⏏ on the remote control while in the Audio Menu (see page 86).
Cannot cycle through the other video equipment connected to the TV	❑ Be sure the Video Input option is not set to Stop (see page 96).
Cannot operate Menu	❑ If a menu option appears in gray, this indicates that the menu option is not available.
Lost password	❑ In the password screen (see page 92), enter the following master password: 4321 . The master password clears your previous password; it cannot be used to temporarily unblock channels.
LED on the TV is lit	❑ The STANDBY LED (see page 16) lights up when the TV is in standby mode. If the LED blinks continuously, this may indicate the TV needs a service. ❑ The TIMER LED (see page 16) indicates that the timer is set. When the timer is set, this LED will remain lit even when the TV is turned off.

Panel System	Plasma Display panel	
Resolution	KE-37XS910/KE-42XS910	1024 pixels (horizontal) × 1024 pixels (vertical)
	KE-50XS910	1280 pixels (horizontal) × 768 pixels (vertical)
Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC, American TV Standard	
Channel Coverage	VHF	2-13
	UHF	14-69
	CATV	1-125
Power Requirements	120V, 60 Hz	
Inputs/Outputs		
DVI-HDTV	1 terminal, 3.3V T.M.D.S., 50 ohms The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.	
Video (IN)	3 total (1 on side panel)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3 total (1 on side panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	6 total (1 on side panel)	500 mVrms (100% modulation) Impedance: 47 kilohms
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/OUT)	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
RF Inputs	2	
Screen Size (measured diagonally)	KE-37XS910	37 inches
	KE-42XS910	42 inches
	KE-50XS910	50 inches
Speaker Output	15W × 2	
Dimensions (W × H × D)	KE-37XS910	1135 × 692 × 286 mm (44 3/4 × 27 1/4 × 11 3/8 in)
	KE-42XS910	1229 × 753 × 286 mm (48 3/8 × 29 3/4 × 11 3/8 in)
	KE-50XS910	1435 × 881 × 347 mm (56 1/2 × 34 3/4 × 13 3/4 in)
Mass	KE-37XS910	39.5 kg (86 lbs 1 oz)
	KE-42XS910	44.5 kg (98 lbs 2 oz)
	KE-50XS910	61.0 kg (134 lbs 8 oz)
Power Consumption	In Use	KE-37XS910: 390 W KE-42XS910: 430 W KE-50XS910: 430 W
	In Standby	Under 1.5 W

(Continued)

Supplied Accessories	Remote Control (1)	RM-Y1001
	AA Batteries (2)	
	AC power code (1)	
	Antenna cable (1)	
	Cord clamp (1)	
	Clamp rivets (4)	
	Clamp screws (2)	
	Cleaning cloth (1)	

Design and specifications are subject to change without notice.

Optional Accessories

- ☐ A/V Cable (VC-810S/820S/830S)
- ☐ Component Video Cable (VMC-10/30)
- ☐ Control S Cable (RK-G69)
- ☐ Wall mount bracket: SU-PW2
- ☐ Floating stand: SU-PF2



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