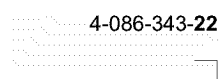


SONY

Connecting Additional Equipment



4-086-343-22

FD Trinitron
WEGA®

Operating Instructions

KV-20FV300
KV-24FV300

Connecting Additional Equipment

WARNING

To reduce the risk of fire or electric shock, 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.

Note to the CATV Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the 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.

SAFETY PRECAUTIONS

- Operate the TV only on 120 V AC.
- One blade of the power plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object falls into the TV, unplug it and have it checked by qualified personnel before operating it further.

CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same channel can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the results of misuse.



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



You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antennas.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Protecting the TV

- To prevent internal heat build-up, 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.

Note on Caption Vision

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

Use of this television 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.

Owner's Record

The model and serial numbers are located on the front cover of this manual and at the rear of your TV.

Trademarks and Copyrights

ENERGY STAR® is a registered mark.



As an ENERGY STAR® Partner, Sony has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

Licensed by BBE Sound, Inc. under USP 4638258.4482866. BBE and BBE symbol are trademarks of BBE Sound, Inc.

WOW and the (●)® symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

Important Safeguards

For your protection, 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.

WARNING

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

Use

Power Sources

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.



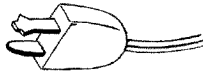
Grounding or Polarization

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).

Refer to the following instructions:

For the set with a polarized AC power cord plug

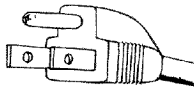
This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



Alternate Warning

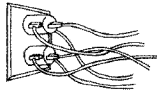
For the set with a three-wire grounding type AC plug

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



Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock. Always turn the set off when it is not to be 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.



Do not disconnect the antenna or the power cord during a heavy storm. Lightning may strike while you are holding the cable or cord, causing serious injury. Turn off your TV and wait for the weather to improve.

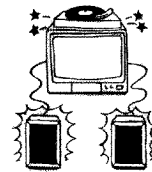
Object and Liquid Entry

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.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards. Do not place any objects, especially heavy objects, on top of the set. The object may fall from the set, causing injury.



Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.



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.

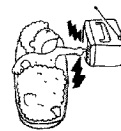


Installation

Always use two or more people to lift or move the set. The set is heavy and the bottom surface is flat. Serious injury can result from trying to move the set by yourself alone, or from unsteady handling. Install the set on a stable, level surface.

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.



Accessories

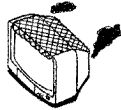
Do not place the set on an unstable cart, stand, tripod, bracket, table, or shelf. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of TV. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 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.

Connecting Additional Equipment

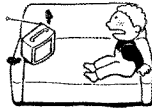
Ventilation

The slots and openings in the cabinet and in the back or bottom 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.

- **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.**

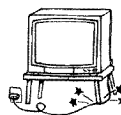


- **Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.**



Power-Cord Protection

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.



Grounding or Polarization

This set may be equipped with a polarized alternating current line plug (a plug having one blade wider than other). 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 replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Antennas

Outdoor Antenna Grounding

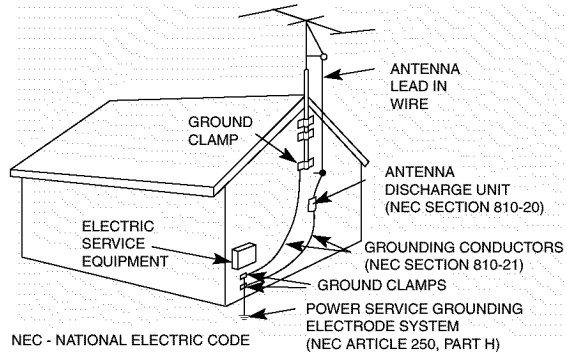
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

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

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

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



Lightning

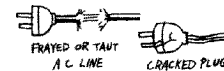
For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

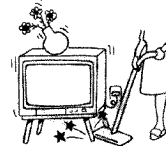
Damage Requiring Service

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

- **When the power cord or plug is damaged or frayed.**



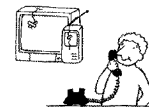
- **If liquid has been spilled into the set or objects have fallen into the product.**



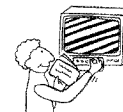
- **If the set has been exposed to rain or water.**



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



- **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.**



- **When the set exhibits a distinct change in performance — this indicates a need for service.**

Servicing

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.



Safety Check

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.



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Introduction

Congratulations on your purchase of the Sony FD Trinitron WEGA®. Before you begin using this manual, please check the model number located on the rear of your TV or on the front cover of this manual.

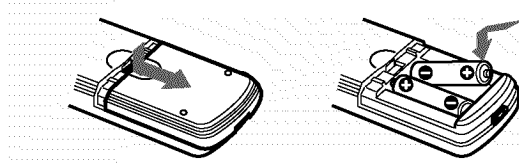
Introducing the FD Trinitron WEGA® Features

Some of the features you will enjoy include:

- ❑ **FD Trinitron FLAT CRT** — Technologically advanced tube delivers a picture with uncompromising accuracy and outstanding image detail.
- ❑ **Y, Pb, Pr Inputs** — A component video input connection for a superior picture quality.
- ❑ **WOW** — Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is directly activated to further enhance the audio program.
- ❑ **Parental Control (V-Chip)**— A tool to help parents monitor what their children watch on TV by establishing rating limits.
- ❑ **Favorite Channel** — Instant access to your favorite channels with the touch of a button.
- ❑ **XDS Banner** — A new convenient feature that displays the name and the remaining time of the current program viewed, if available.
- ❑ **Universal Remote Control** — Program your remote control to operate your connected cable box, VCR, digital satellite receiver, or DVD player.
- ❑ **Energy Star®** — Meets the Energy Star guidelines for energy efficiency.
- ❑ **Direct MTS** — Allows direct access to your Multi-Channel TV Sound: Stereo, Mono, or Auto SAP (Second Audio Program), with the touch of a button.
- ❑ **Trilingual Menus** — Choose between English, French, or Spanish menus.
- ❑ **Front Panel Controls** — Allows access to the on-screen menus without the use of a remote control.
- ❑ **Front A/V Inputs** — A quick connection for video games, camcorders, stereo/mono equipment, or headphones.
- ❑ **Auto Mute** — A friendly feature designed to automatically mute your TV when no signal is received.

Batteries for the Remote Control

Insert two AA (R6) batteries (supplied) into the remote control using the following illustration as a guide.



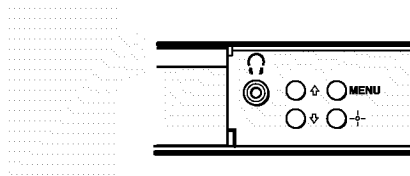
Under normal conditions, batteries will last up to six months. If the remote control does not operate properly, the batteries might be worn out.











If you will not be using the remote control for an extended period of time, remove the batteries to avoid possible damage from battery leakage.

About this Manual

This manual provides instructions to help you enjoy your new TV. It shows you how to connect to an antenna or cable, cable box, VCR, DVD, satellite receiver, stereo system, or camcorder. Once you're connected, follow the instructions and use the remote control to access the on-screen menus.

Front Panel Menu Controls



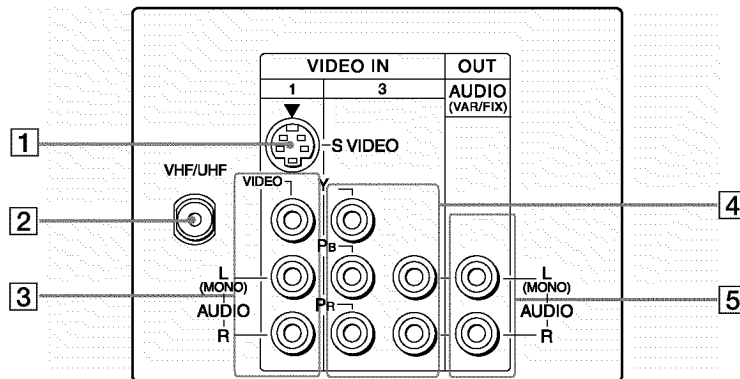
The front Audio/Video panel controls allows you to access the menu without the remote control. Press  to display the on-screen menu. Use the  and  buttons on the front Audio/Video panel instead of the  and  buttons on the remote control. Use the  button on the front Audio/Video panel instead of the , , and  buttons on the remote control. Press  again when the setting or adjustment is complete.

To navigate the menus with your remote control, see "Using the Menus" on page 17.

Connecting Your TV

Read this section before setting up your TV for the first time. This section covers basic connections in addition to any optional equipment you may be connecting.

TV Rear Panel

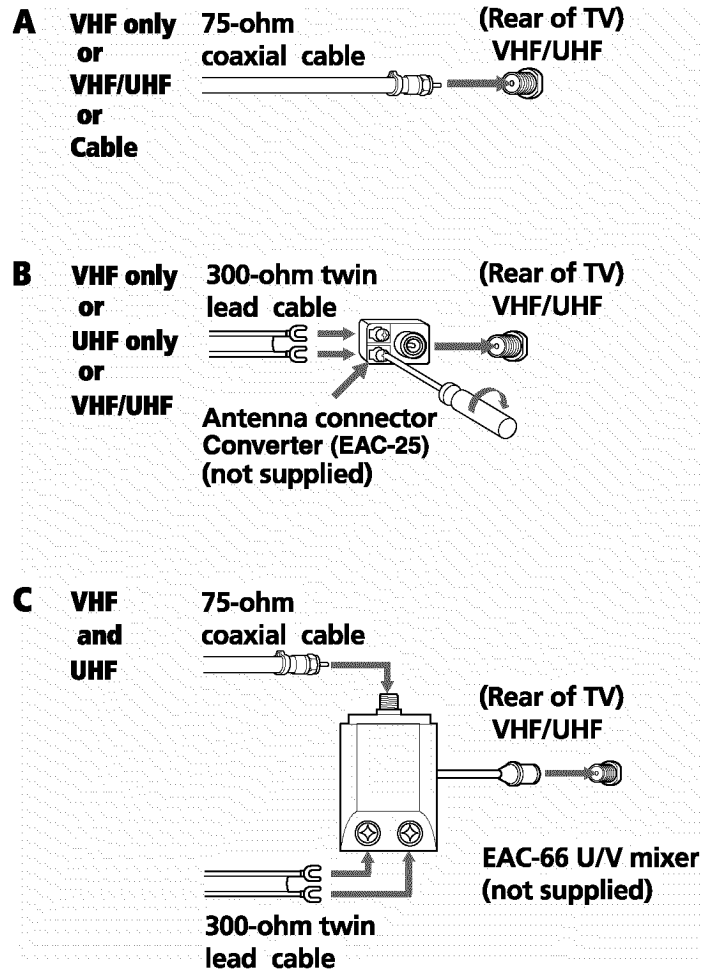



Jack	Description
1 S VIDEO	Connects to the S VIDEO OUT jack on your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than the VHF/UHF jacks or the video input jack. S VIDEO does not provide sound; the audio cables must still be connected.
2 VHF/UHF	Connects to your VHF/UHF antenna or cable.
3 VIDEO/ AUDIO (L/R)	Connects to the AUDIO and VIDEO output jacks on your VCR or other video equipment. A second video input jack (VIDEO 2) is located on the front panel of the TV. These AUDIO/VIDEO input jacks provide better picture quality than the VHF/UHF jack.
4 Y, PB, PR/ L, R	Connects to the component video Y, PB, PR to AUDIO L and R output jacks on your DVD player or Digital Set-top box.
5 AUDIO OUT (VAR/FIX) L(MONO)/R	Connects to the AUDIO L and R input jacks on your audio or video equipment. You can listen to your TV's audio through your stereo system.

Basic Connections

TV with indoor or outdoor antenna, or CATV cable

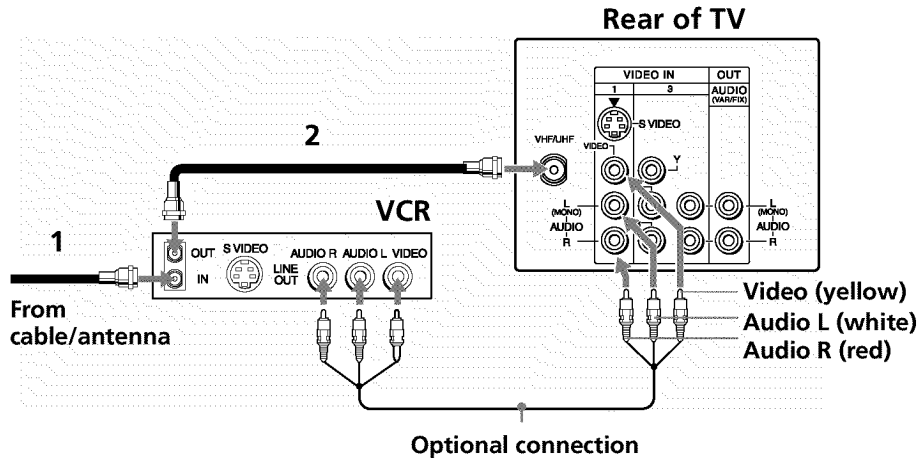
Depending on the cable available in your home, choose one of the connections below:



 If you are connecting to an indoor or outdoor antenna, you may need to adjust the orientation of the antenna for best reception.

Connecting Additional Equipment

TV and VCR



To watch video programs from your VCR, tune your TV to channel 3 or 4 (as set on the rear of your VCR).

- 1** Connect the coaxial cable from your TV antenna or cable service to the IN jack on your VCR.
- 2** Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF jack on the TV.

Optional connection

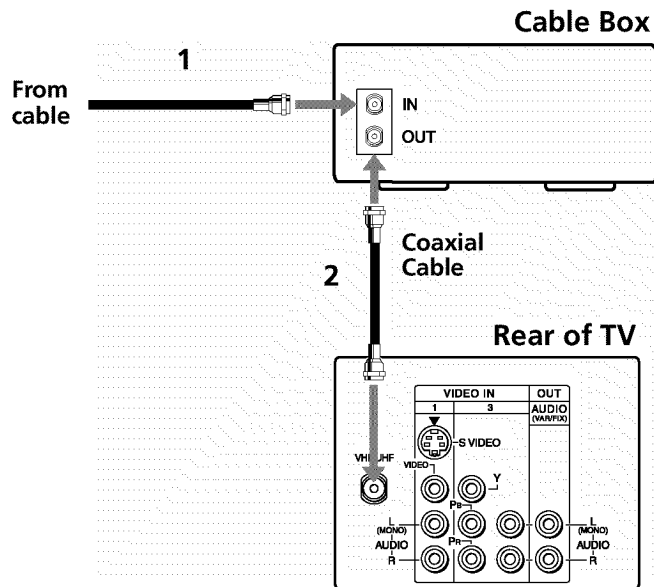
If your VCR is equipped with video outputs, you can get better picture quality by connecting Audio/Video cables (not supplied) from AUDIO and VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.

You can use the button to switch between the VHF/UHF and VIDEO inputs.

For better picture quality, use S VIDEO instead of the yellow Audio/ Video cable. S VIDEO does not provide sound; the audio cables must still be connected.

Operating Instructions

TV and Cable Box

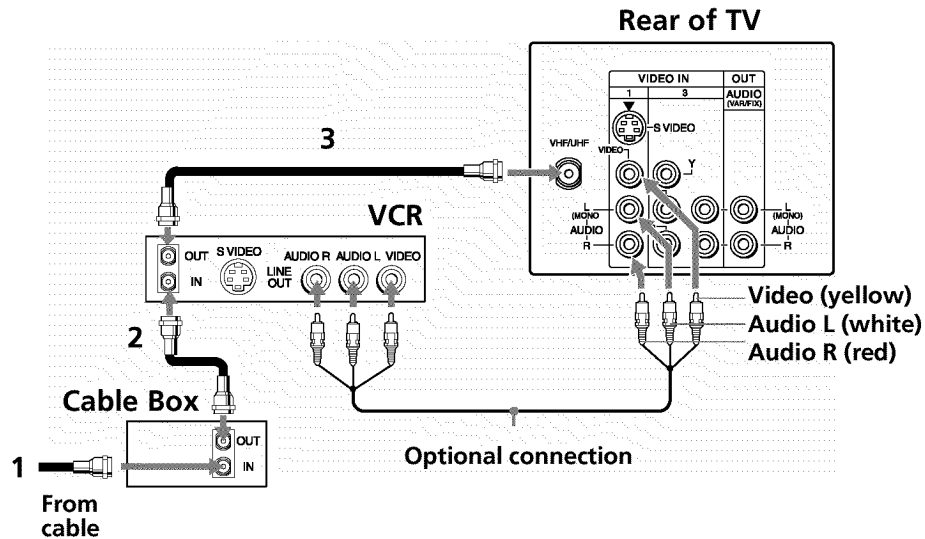


- 1** Connect the coaxial cable from your cable service to the IN jack on your cable box.
- 2** Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the VHF/UHF jack on the TV.

ℳ To view channels from your cable box, tune your TV to channel 3 or 4 (as set on the rear panel of your cable box) and use the cable box's remote control to change channels.

ℳ If you will be controlling all channel selection through your cable box, you should consider using the Channel Fix feature by setting your TV to channel 3 or 4 (see page 22).

TV, VCR, and Cable Box



- 1 Connect the coaxial cable from your cable service to the IN jack on your cable box.
- 2 Connect a coaxial cable (not supplied) from the OUT jack on your cable box to the IN jack on your VCR.
- 3 Connect a coaxial cable (not supplied) from the OUT jack on your VCR to the VHF/UHF jack on the TV.

⚠ If you will be controlling all channel selection through your cable box, you should consider using the Channel Fix feature by setting your TV to channel 3 or 4 (see page 22).

Optional connection

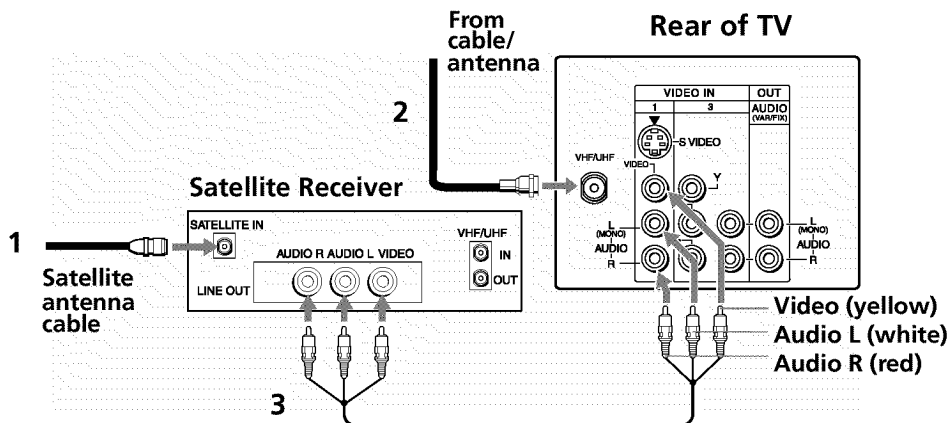
If your VCR is equipped with video outputs, you can get better picture quality by connecting Audio/Video cables (not supplied) from AUDIO and VIDEO OUT on your VCR to AUDIO/VIDEO IN on your TV.

⚠ You can use the  button to switch between the VHF/UHF and VIDEO inputs.

⚠ For better picture quality, use S VIDEO instead of the yellow Audio/ Video cable. S VIDEO does not provide sound; the audio cables must still be connected.

Operating Instructions

TV and Satellite Receiver

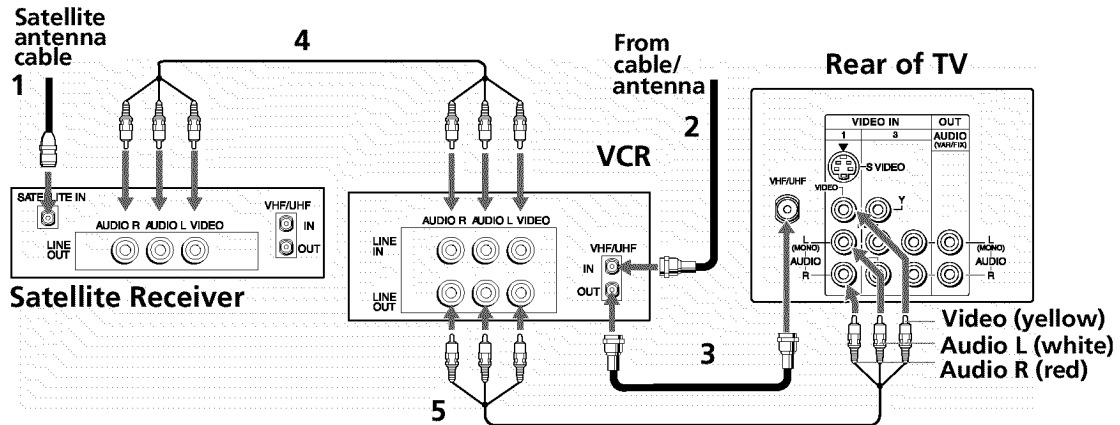


- 1 Connect the cable from your satellite antenna to SATELLITE IN on your satellite receiver.
- 2 Connect the coaxial cable from your cable service or antenna to the VHF/UHF jack on your TV.
- 3 Using Audio/Video cables (not supplied), connect AUDIO and VIDEO OUT on your satellite receiver to AUDIO and VIDEO IN on your TV.

You can use the button to switch between the VHF/UHF and VIDEO inputs.

For better picture quality, use S VIDEO instead of the yellow Audio/Video cable. S VIDEO does not provide sound; the audio cables must still be connected.

TV, Satellite Receiver, and VCR



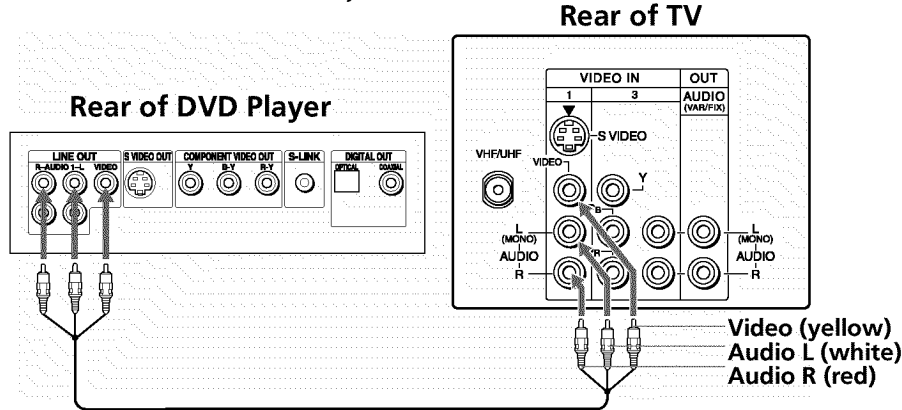
- 1** Connect the cable from your satellite antenna to SATELLITE IN on the satellite receiver.
- 2** Connect the coaxial cable from your cable service or antenna to the IN jack on your VCR.
- 3** Using a coaxial cable (not supplied), connect the OUT jack on your VCR to the VHF/UHF jack on your TV.
- 4** Using Audio/Video cables (not supplied), connect AUDIO and VIDEO OUT on your satellite receiver to AUDIO and VIDEO IN on your VCR.
- 5** Using Audio/Video cables (not supplied), connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

To view from the satellite receiver or VCR, select the video input to which your satellite receiver or VCR is connected by pressing **TV/VIDEO** on the remote control.

Operating Instructions

Connecting a DVD Player

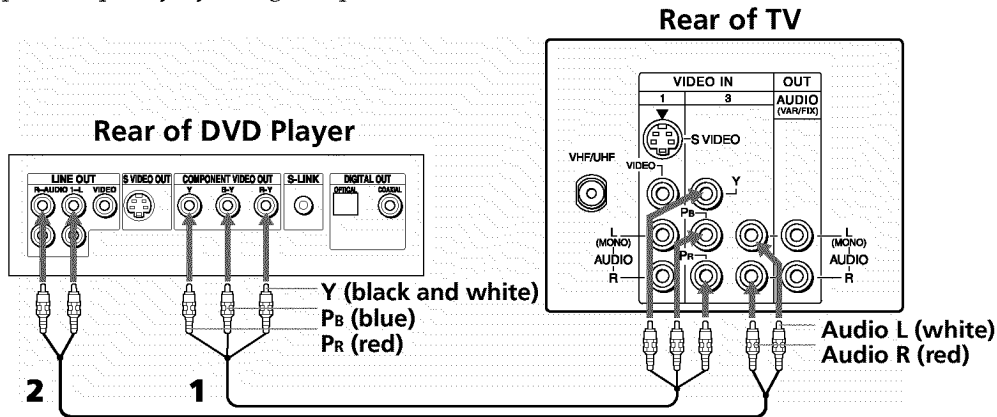
Using Audio/Video cables (not supplied), connect AUDIO and VIDEO OUT on your DVD player to AUDIO and VIDEO IN on your TV.



For better picture quality, use S VIDEO instead of the yellow Audio/Video cable. S VIDEO does not provide sound; the audio cables must still be connected.

Optional connection

If your DVD player is equipped with component video outputs (Y, P_B, P_R), you can optimize the picture quality by using component video cables.

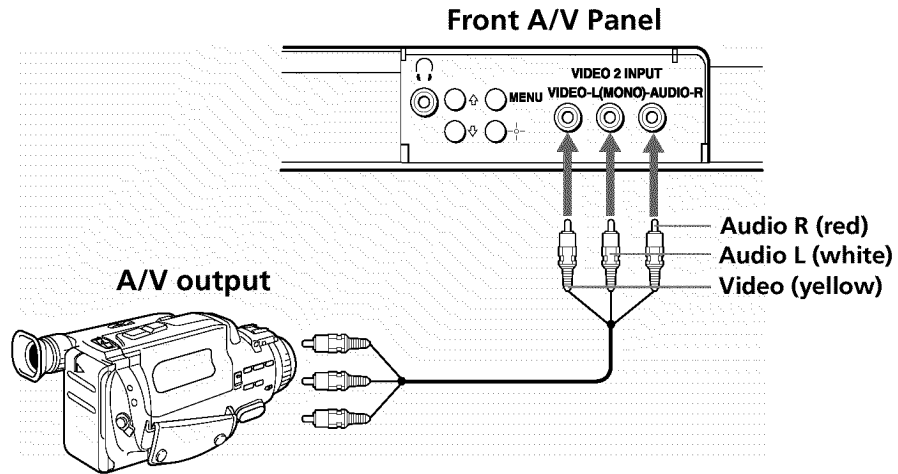


- 1 Using component video cables (not supplied), connect the Y, P_B, P_R OUT on your DVD player to Y, P_B, P_R IN on your TV.
- 2 Connect AUDIO OUT on your DVD player to AUDIO IN on your TV.


The Y, P_B, P_R outputs on your DVD player are sometimes labeled Y, C_B, and C_R or Y, B-Y, and R-Y. If so, connect the cables to like colors.

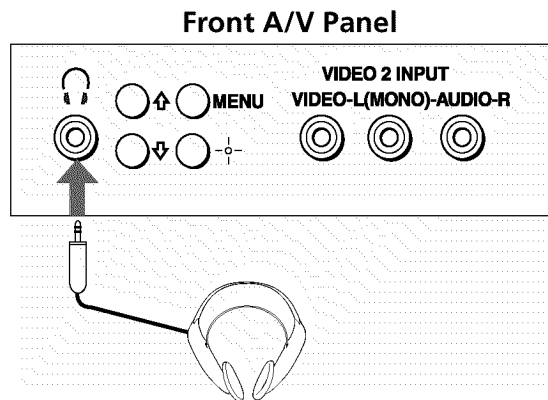
Connecting a Camcorder

Using Audio/Video cables (not supplied), connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on your TV.



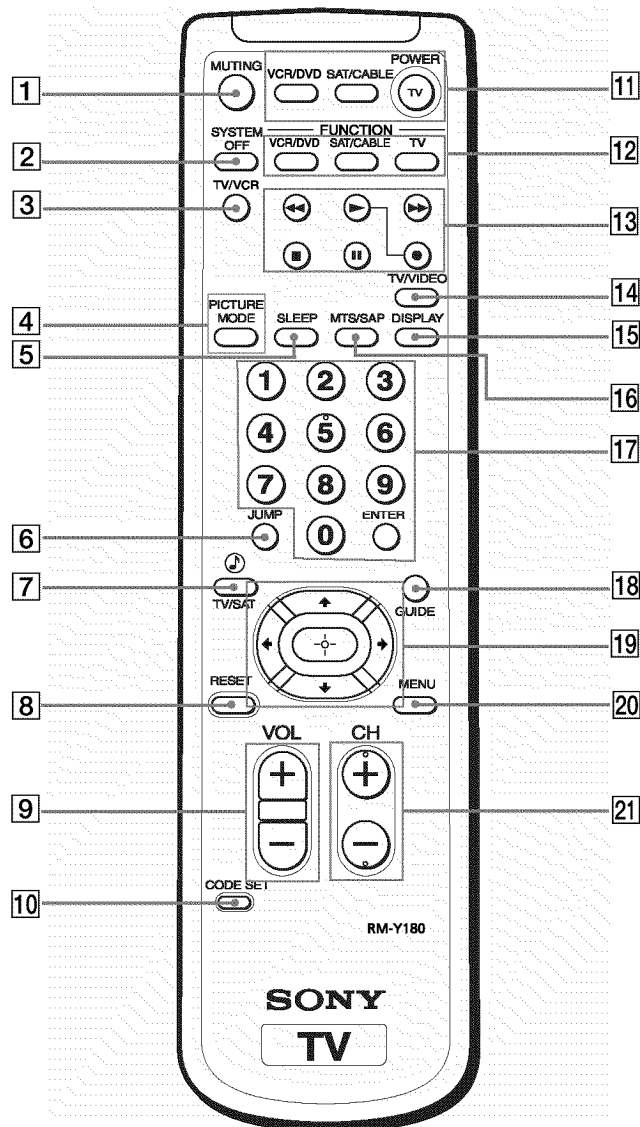
Connecting Headphones

Connect the headphones to the  jack on the front of your TV. Headphone jack is STEREO.



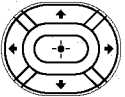



Using the Remote Control and Basic Functions

This section shows you how to use the more advanced buttons on the remote control and how to use the on-screen menus.




Using the Remote Control

1 MUTING	Instantly turns off the sound. Press again or press  to restore the sound.
2 SYSTEM OFF	Powers off all Sony equipment at once (may not work with older equipment).
3 TV/VCR	Press when you are finished using a VCR and you want to switch to the TV Antenna input. Your VCR power will remain on.
4 PICTURE MODE	Cycles through the available Video Mode settings.
5 SLEEP	Turns the TV off automatically in approximately 15, 30, 45, 60 or 90 minutes. Cancel by pressing until SLEEP OFF appears.
6 JUMP	Press to jump back and forth between two channels. The TV alternates between current channel and the last channel that was selected.
7 	Press for a direct selection of Effect settings (Simulated, WOW, SRS, Off) (see page 20).
8 RESET	Press to return to factory settings while in an on-screen menu.
9 VOL (volume)	Press when you want to adjust the volume.
10 CODE SET	Use to program your remote control to operate connected video equipment (see page 32).
11 POWER	Press when you want to turn connected equipment on or off.
12 FUNCTION	Press when you want to control connected equipment with your remote control.
13 VCR/DVD (operating)	Operates VCR or DVD. Use when you want to operate connected VCR or DVD with your remote control.
14 TV/VIDEO	Cycles through available video inputs.
15 DISPLAY	Press once to show current time (if set) and channel number. Press again to turn DISPLAY off.
16 MTS/SAP	Cycles through the Multi-channel TV Sound (MTS) options: Stereo, Mono, and Auto SAP (Second Audio Program).
17 0-9 and ENTER	Change the channels directly. Press 0-9 buttons to select a channel, then press ENTER.
18 GUIDE	Brings up the custom guide of your satellite receiver.
19 	Moves the cursor in the on-screen menus. Press the arrow buttons to move the cursor. Press the center button to select or access an option.
20 MENU	Displays the on-screen menu. Press again to exit the menu at any time.
21 CH (channel)	Press when you want to change channels.



 If you lose your remote control, see page 36.


Setting Up the TV Automatically

After you have finished connecting your TV, you can perform Auto Program to set up your channels.











- 1 Press  to turn on the TV. The Initial Setup screen appears.





- 2 Press  on the remote control or on the TV front panel to perform Auto Program, or press  to exit.

 The Initial Setup screen appears each time you turn on the TV until you perform Auto Program.

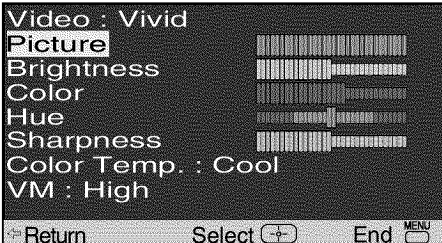
To perform Auto Program again

- 1 Press .
- 2 Press  to highlight Channel Setup ().
- 3 Press  to highlight Cable. Press  to select.
- 4 Press  or  to select On or Off according to how you connected your TV. Press .
- 5 Press  to highlight Auto Program. Press  to search for channels.

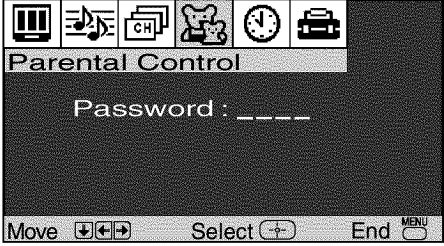
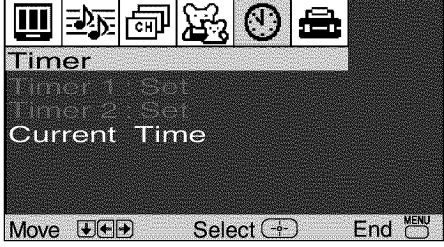

 After performing Auto Program, press  to exit.

Quick Start to the Menus

The following settings are available in your on-screen menus:

Menu	Allows you to
	 <p>Make adjustments to your picture settings.</p>
	 <p>Change your audio settings.</p>
	<p>Customize your channel settings.</p>










Operating Instructions



Menu	Allows you to
	<p>Set rating limits on your TV based on a program's rating or content.</p>
	<p>Set the clock on your TV and program scheduled viewing using Timer 1 and Timer 2.</p>
	<p>Select captioning options, label video inputs, adjust tilt correction, select menu languages, or run a demo of the menus.</p>

Using the Menus

This section shows the options available for setting up and adjusting your TV.

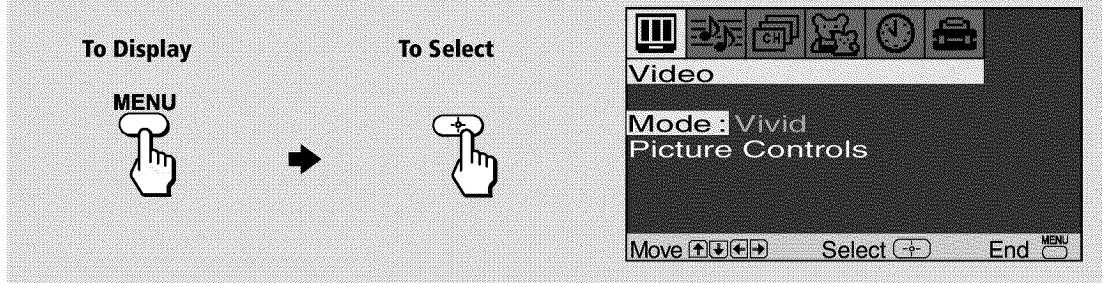
To Access a Menu

- 1 Press  to display the on-screen menu.
- 2 Use the  or  buttons to highlight the desired menu, then press .
- 3 Use the  or  buttons to highlight the desired option, then press .
- 4 Press  to complete the adjustment or follow the instructions that will appear on your screen to activate the desired option.
- 5 Press  to exit the menu.

 Press  once to display the on-screen menu, and press again to return to normal viewing. If no buttons are pressed, the menu closes automatically after about 90 seconds.

Using the Video Menu

To access the Video menu, refer to the following steps:



Mode
*Customized
picture viewing*

Vivid: Select for enhanced picture contrast and sharpness.

Movie: Select for a finely detailed picture.

Sports: Select for a bright picture.

Standard: Select for a standard picture.

 Press  for direct Mode settings (Vivid, Movie, Sports, Standard).

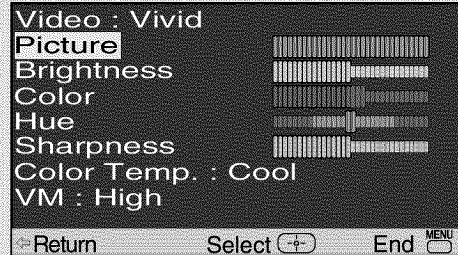
Picture Controls Menu

To access the Picture Controls menu, first open the Video menu by referring to the following steps:

To Display



To Select



Press \downarrow to highlight Picture Controls, then press \rightarrow .

Picture Controls

With the Picture Controls menu open:

Picture:

Press \leftarrow to decrease the contrast. Press \rightarrow to increase contrast.

Brightness:

Press \leftarrow to darken the picture. Press \rightarrow to brighten the picture.

Color:

Press \leftarrow to decrease color saturation. Press \rightarrow to increase color saturation.

Hue:

Press \leftarrow to increase the red tones. Press \rightarrow to increase the green tones.

Sharpness:

Press \leftarrow to soften the picture. Press \rightarrow to sharpen the picture.

Color Temp. *White color tint adjustment*

Use the \uparrow or \downarrow button to select from one of the following options:

Cool: Gives the white colors a blue tint.

Neutral: Gives the white colors a neutral tint.

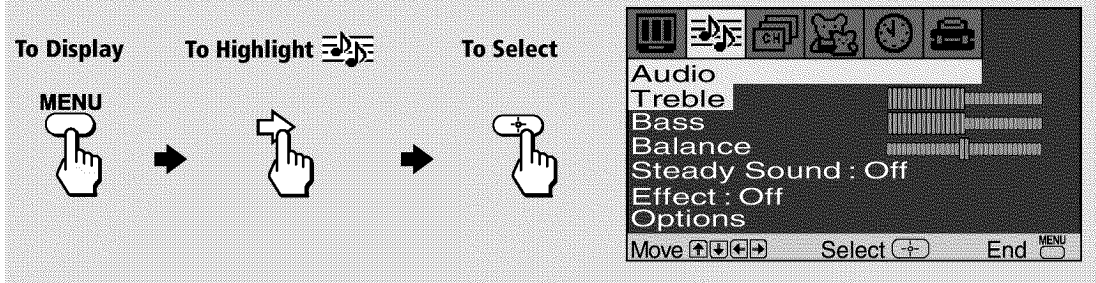
Warm: Gives the white colors a red tint.

VM *Velocity Modulation*



Sharpens picture definition to give objects a sharp, clean edge. Use the \uparrow or \downarrow button to select from one of the following options: **Off, High, Low.**

Using the Audio Menu

To access the Audio menu, refer to the following steps:




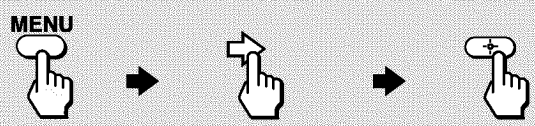
Treble	Press ⇐ to decrease the higher pitched sound. Press ⇒ to increase the higher pitched sound.
Bass	Press ⇐ to decrease the lower pitched sound. Press ⇒ to increase the lower pitched sound.
Balance	Press ⇐ to emphasize the left speaker. Press ⇒ to emphasize the right speaker.
Steady Sound <i>Stabilizes volume</i>	Press ↑ or ↓ to select one of the following options: On: Select to stabilize the volume when changing channels. Off: Select to turn Steady Sound off.
Effect	Press ↑ or ↓ to select one of the following options: Simulated: Simulates stereo quality sound for mono programs. WOW: Provides a dramatic presence with a full, deep bass sound. When WOW is enabled, BBE is directly activated to further enhance the audio program. SRS: Produces a dynamic three dimensional sound for stereo audio signals. Off: Normal stereo or mono reception.

 Press  for a direct selection of Effect settings (Simulated, WOW, SRS, Off).

Options Menu

To access the Options menu, first open the Audio menu by referring to the following steps:

To Display **To Highlight**  **To Select**







Options

MTS : Stereo



Speaker : On

Audio Out : Fixed



← Return Select  End 

Press  to highlight Options, then press .

MTS
Multi-Channel TV Sound

Press  or  to select one of the following options:

- Stereo:** Select when viewing a broadcast in stereo.
- Mono:** Select to reduce noise in areas of poor reception.
- Auto SAP:** Select to have the TV automatically to a Second Audio Program (SAP) when a signal is received.

 Press  for direct MTS settings (Stereo, Mono, Auto SAP).

Speaker
Custom selection of audio output source


On: Select to listen to the sound from the TV speakers with or without a separate stereo system.

Off: Select to turn off the TV speakers and listen to the TV's sound only through external audio system speakers.

Audio Out
Use to control the TV's volume through a stereo

Audio Out settings can only be set when speakers are set to Off.

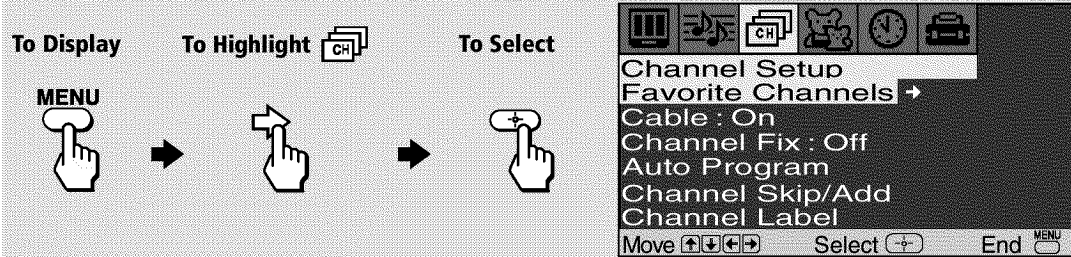
- Variable:** Adjust the volume through your TV.
- Fixed:** Adjust the TV volume through a connected stereo.

 Audio Out settings can only be set when Speaker is set to Off.

 If your TV is set to Auto SAP, some programs may be muted or distorted. If your TV does not output sound, change your Audio setting to Stereo or Mono.


Using the Channel Setup Menu

To access the Channel Setup menu, refer to the following steps:



Favorite Channels
Quick access to favorite channels

Press \Rightarrow to open Favorite Channels menu:

- 1 Use the \uparrow or \downarrow buttons to select the position (1-5) where you want to set a favorite channel. Then press \oplus .
- 2 Using the \uparrow or \downarrow buttons, select the desired channel.
- 3 Press \oplus to change to the channel selected.
- 4 Press \leftarrow to return to the Channel Setup menu or press  to exit.

\hookrightarrow To use Favorite Channels: Exit all menus and press \oplus . Press \uparrow or \downarrow to move the cursor to the desired channel number and press \oplus .

Cable

On: Select if you are receiving cable channels with a CATV cable.

Off: Select if you are using a TV antenna.

\hookrightarrow After changing your cable settings, you will need to perform Auto Program. When Channel Fix is set, you will not be able to use your cable settings.

Channel Fix

2-6: Select when you want to control all channel selection through a cable box or VCR. Select the appropriate channel (usually 3 or 4) and use the cable box's or VCR's remote control for channel selection.

Video 1: Select from available video inputs when you have connected video equipment (e.g. satellite receiver) and you want your TV fixed to it.

Off: Channel Fix is not set.

Auto Program

Press \Rightarrow to perform Auto Program.

Perform Auto Program whenever setting up your TV.

The TV will scan through all available channels and program receivable channels.

Channel Skip/Add

Use this feature after you run Auto Program to skip unwanted channels or add new ones. Press \Rightarrow to open the Channel Skip/Add menu:

- 1 Use the \uparrow or \downarrow button to select the position of the desired channel, then press \Rightarrow .
- 2 Use the \uparrow or \downarrow buttons to select Skip or Add, then press \Rightarrow .
- 3 Press \leftarrow to return to the Channel Setup menu or press MENU to exit.

\leftarrow Pressing CH+ or CH- will skip over channels that have been skipped. You can still use the 0-9 buttons to directly tune to skipped channels.

Channel Label

Label up to 40 channels with their call letters

Press \Rightarrow to open the Channel Label menu:

- 1 Press \Rightarrow , then press \uparrow or \downarrow until you reach the desired channel number. Press \Rightarrow to activate the channel.
- 2 Press \Rightarrow , then use the \uparrow or \downarrow buttons to display the first call letter or number of the caption, then press \Rightarrow to select it. When finished, press \Rightarrow to activate.

\leftarrow Favorite Channels, Cable, Channel Skip/Add, and Channel Label cannot be used when Channel Fix is set.

Parental Control

The Parental Control feature is designed to help parents monitor what their children watch on television. This section shows you the different rating systems available and how to set your TV's rating limit.

Overview of the Ratings

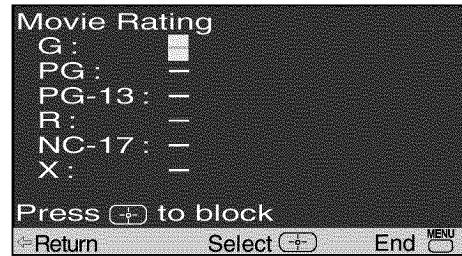
Once you have become familiar with these rating systems, you should be ready to set your TV's rating limit.

Movie Rating

(U.S. models only)

This system defines the rating levels of movies shown in theaters and on prime cable channels.

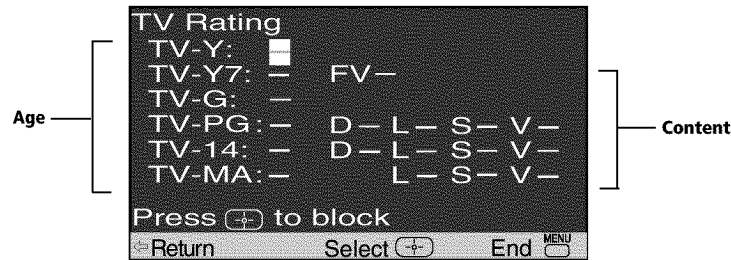
Rating	Defined as
G	General audience
PG	Parental Guidance suggested
PG-13	Parents strongly cautioned
R	Restricted
NC-17	No one 17 and under admitted
X	Adult audience only



TV Rating

(U.S. models only)

The TV rating is divided into two groups: age-based and content-based.



Age	Defined as	Content	Defined as
TV-Y	All children	FV	Fantasy Violence
TV-Y7	Directed to older children	D	Suggestive dialogue
TV-G	General audience	L	Strong language
TV-PG	Parental Guidance suggested	S	Sexual situations
TV-14	Parents strongly cautioned	V	Violence
TV-MA	Mature Audience only		

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain intense violence.

Unrated

(U.S. models only)

You have the option of blocking TV programs or movies that are not rated.

Allow	Allows all unrated programs
Block	Blocks all unrated programs



If you choose to block unrated TV programs, please be aware that the following programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs, and weather.

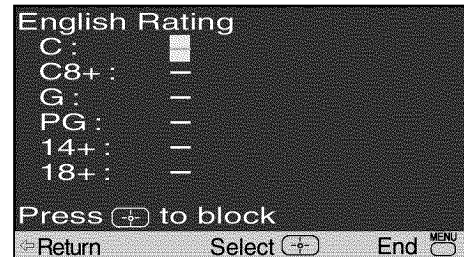
Using the Menus

English Rating

(Canadian models only)

These ratings are for Canadian programs that are broadcast in English.

Rating	Defined as
C	Children
C8+	Children 8 years and older
G	General programming
PG	Parental Guidance
14+	Viewers 14 and older
18+	Adult programming

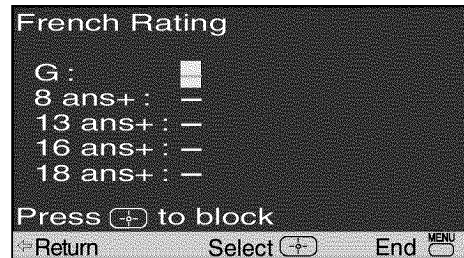


French Rating

(Canadian models only)

These ratings are for Canadian programs that are broadcast in French.

Rating	Defined as
G	General
8 ans+	Not recommended for younger children
13 ans+	Not recommended for children under age 13
16 ans+	Not recommended for ages under 16
18 ans+	This program is restricted to adults



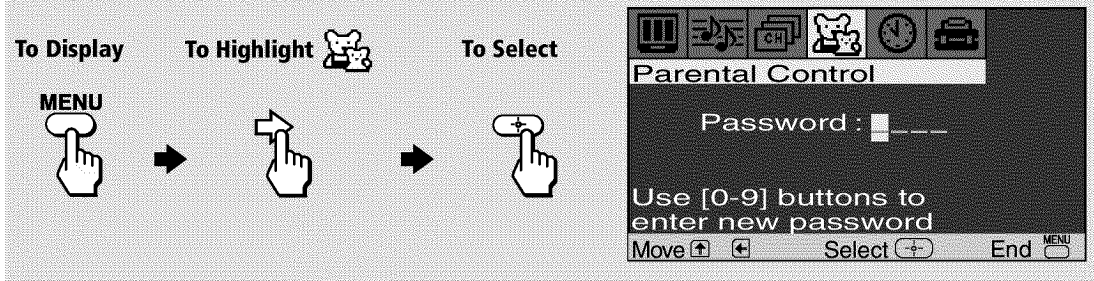
U.S.A. Rating


(Canadian models only)



For programs from the United States, please see "TV Rating" on page 25.


Using the Parental Control Menu

To access the Parental Control menu, refer to the following steps:



In the Parental Control  menu, you will be asked to set a 4-digit password for any further access into Parental Control.

- 1 Press , then use the  buttons to enter a 4-digit password.

 Keep this manual in a safe place. If you forget your password, see page 36.

- 2 Confirm your password by entering it again.

Once your password is set correctly, the next Parental Control menu appears. For future access to this menu, use your password. A password is needed every time you want to access Parental Control menu.

Using the Menus

Setting the Rating

You can change the Rating by selecting one of the Lock options.



- 1 With Lock highlighted, press **⏏**.

If you are not familiar with the Parental Guidelines rating system, use one of the following preselected categories to simplify the rating selections, Child, Youth, Young Adult.

- 2 Use the **↑** or **↓** buttons to select the desired rating and press **⏏**.

Rating	TV will allow a maximum rating of
Child	TV-Y, TV-G, G (U.S. models only), G (Canadian models only)
Youth	TV-PG, PG (U.S. models only), PG (Canadian models only)
Young Adult	TV-14, PG-13 (U.S. models only), 14+ (Canadian models only)
Custom	Select to set more restrictive ratings (see next section)
Off	No rating limit


Changing your Password

- 1 Use the **↑** or **↓** button to move the cursor to Change Password and press **⏏**.
- 2 Follow steps 1 and 2 for “Using the Parental Control Menu” on page 27.

Information for Parents

To view a program that exceeds the TV rating


- ❑ Press **ENTER**, then use the **0-9** buttons to enter your password.

 Entering your password to view a blocked program will temporarily turn Lock to Off. To reactivate your Lock settings, turn the TV off then back on. The TV will return to the settings that you have selected.

Using the Custom Menu

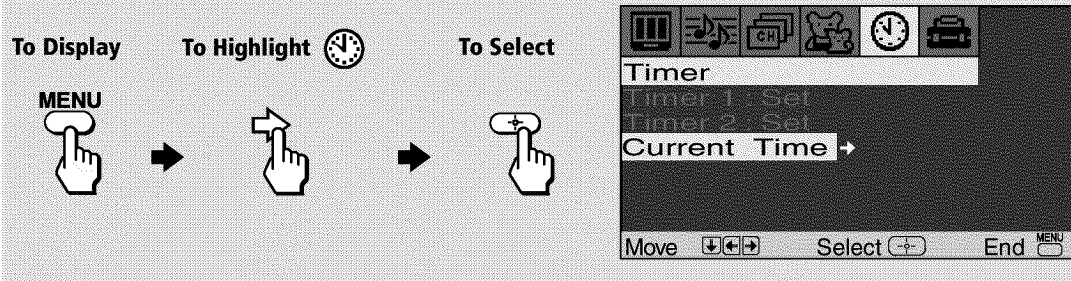
Before setting Custom ratings, see pages 24-26, "Overview of the Ratings," for a description of the available rating systems.

Follow the instructions on the screen to make your custom settings. Select the country desired for your TV's rating limit. See page 25 for U.S. models and page 26 for Canadian models for more information.

 Once you have blocked a rating or content, all higher ratings or content will be automatically blocked.

Using the Timer ⌚ Menu

To access the Timer menu, refer to the following steps:



- Current Time** Set your TV to the current day and time. Press ⇨ to open Current Time menu:
- 1 Use the ⇧ or ⇩ button to enter the correct day and time, then press ⇨.
 - 2 Press **MENU** to exit the menu.

⚠ You must set the Current Time before you can use Timer 1 and Timer 2.

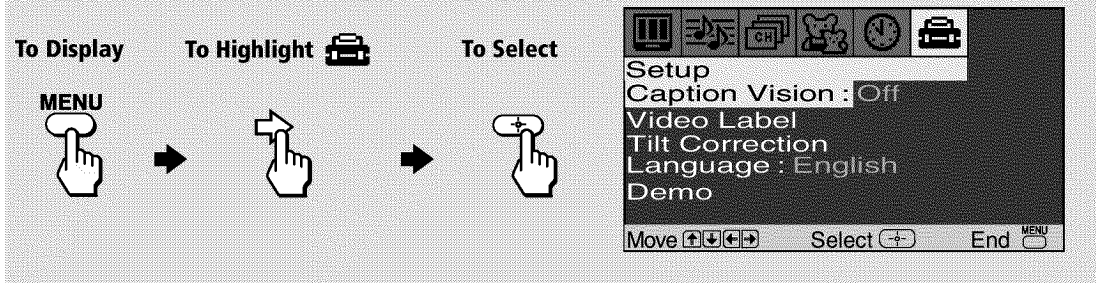
- Timer 1 and Timer 2** Use your timer settings to program your TV by day, time, duration and channel. The timer's duration is maximum of 6 hours. When the channel is fixed is not necessary to set the channel.
- Scheduled viewing*
- With the menu open, set the cursor on Timer 1 or Timer 2:
- 1 Press ⇧ or ⇩ to select Timer 1 or Timer 2, then press ⇨.
 - 2 Press ⇧ or ⇩ to enter the desired day, time, duration and channel, then press ⇨. The Timer status should be On when the Timer has been set.
 - 3 Press **MENU** to exit the menu.

⚠ You can set the Timer to On, Off, or Set. Once the timer is set, you can turn it On or Off without having to go through the settings. When you set Timer 1 or Timer 2, a red light on the front panel of your TV will turn on.

⚠ When you perform Auto Program, Timer 1 and Timer 2 settings will be cleared. Also, in the event of any loss of power, Current Time and Timer 1 and Timer 2 settings will be cleared.

Using the Setup Menu

To access the Setup menu, refer to the following steps:









<p>Caption Vision <i>Closed-Captioning</i></p>	<p>Allows you to select from three closed caption modes (for programs that are broadcast with closed caption).</p> <p>Press \uparrow or \downarrow to select one of the following options: CC1, 2, 3, 4: Displays printed dialogue and sound effects of a program. Text1, 2, 3, 4: Displays network/station information. XDS (Extended Data Services): Displays the name of the current program and its remaining time, if available. Off: Caption Vision is not activated.</p>
<p>Video Label <i>Label connected equipment</i></p>	<p>Allows you to label the audio/video components you connected to the TV, VCR, DVD, etc. When you press TV/VIDEO to switch inputs, the Video Label will display on screen.</p> <p>Press \Rightarrow to open the Video Label menu: 1 Press \uparrow or \downarrow to access the input you want to label and press \Rightarrow. 2 Press \uparrow or \downarrow to choose a label and press \Rightarrow.</p>
<p>Tilt Correction</p>	<p>Press \Rightarrow to open Tilt Correction: Press \uparrow or \downarrow to correct any tilt of the picture from -5 to +5, then press \Rightarrow to activate and return to the Setup menu.</p>
<p>Language</p>	<p>Display all menus in the language of your choice. Use the \uparrow or \downarrow buttons to select desired language and press \Rightarrow.</p>
<p>Demo</p>	<p>Press \Rightarrow to run a demonstration of the on-screen menus.</p>

 You can press any key to exit the Demo mode.

Other Information

Programming the Remote Control

You can use the supplied remote control to operate Sony or non-Sony video equipment.

- 1 Press .
- 2 Press  or  (FUNCTION).
- 3 Use the - buttons to key in the code number from the following chart.
- 4 Press .

VCR codes

Sony	301, 302, 303	JCPenney	309, 305, 304, 330, 314, 336, 337
Admiral (M.Ward)	327	JVC	314, 336, 337, 345, 346, 347
Aiwa	338, 344	Kenwood	314, 336, 332, 337
Audio Dynamic	314, 337	LXI (Sears)	332, 305, 330, 335, 338
Broksonic	319, 317	Magnavox	308, 309, 310
Canon	309, 308	Marantz	314, 336, 337
Citizen	332	Marta	332
Craig	302, 332	Memorex	309, 335
Criterion	315	Minolta	305, 304
Curtis Mathis	304, 338, 309	Mitsubishi/MGA	323, 324, 325, 326
Daewoo	341, 312, 309	Multitech	325, 338, 321
DBX	314, 336, 337	NEC	314, 336, 337
Dimensia	304	Olympic	309, 308
Emerson	319, 320, 316, 317, 318, 341	Optimus	327
Fisher	330, 335	Panasonic	308, 309, 306, 307
Funai	338	Pentax	305, 304
General Electric	329, 304, 309	Philco	308, 309
Go Video	322, 339, 340	Philips	308, 309, 310
Goldstar	332	Pioneer	308
Hitachi	306, 304, 305, 338	Quasar	308, 309, 306
Instant Replay	309, 308	RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329

VCR codes

Realistic	309, 330, 328, 335, 324, 338
Samsung	322, 313, 321
Sansui	314
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M.Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310

Cable box codes

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

Laser Disc Player codes

Sony	701
Panasonic	704, 710
Pioneer	702

DBS codes

DIRECTV	809
Echostar/Dish Network	810

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

Satellite receiver codes

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

DVD codes

Sony	751
JVC	756
Mitsubishi	761
Onkyo	762
Oritron	759
Panasonic	753
Philips/ Magnavox	757
Pioneer	752
RCA	755
Samsung/Hitachi	758
Toshiba	754
Zenith	760






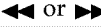



Other Information

🔗 If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.







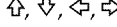

🔗 Whenever you remove the batteries, the code numbers may revert to the factory setting and must be reset.

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






Operating a VCR

Press	To
	Power on the VCR
	Select channels directly
	Change channels
	Play video tape
	Stop
	Search forward or backward
	Pause
	Record
	Change between VCR and TV inputs

Operating a DVD


Press	To
	Power on the DVD
	Select chapters directly
	Search chapters forward or backward
	Play DVD
	Stop
	Pause
	Move the cursor in the menu
	Display the DVD menu

Operating a Laser Disc

Press	To
	Power on the laser disc
	Search chapters forward or backward
	Play disc
	Stop
	Pause

Troubleshooting

If you are having a problem with your TV, try the suggestions below. If the problem persists, contact your nearest Sony Dealer.

No picture, no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure the power cord is plugged in. <input type="checkbox"/> If a red light is flashing on the front of your TV for more than a few minutes, disconnect and reconnect the power cord to restore the TV. If the problem continues, call your local service center. <input type="checkbox"/> Check the TV/VIDEO settings: when watching TV, set to TV; when watching video equipment, set to VIDEO (page 13). <input type="checkbox"/> Make sure the batteries have been inserted correctly into the remote control (page 2). <input type="checkbox"/> Try another channel, it could be station trouble.
Poor or no picture, good sound	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust Picture in the Picture Controls menu under Video (page 19). <input type="checkbox"/> Adjust Brightness in the Picture Controls menu under Video (page 19). <input type="checkbox"/> Check the antenna and/or cable connections (page 4).
Good picture, no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Press  so that MUTING disappears from the screen (page 13). <input type="checkbox"/> Check your Audio settings. Your TV may be set to Auto-SAP or your Speakers might be Off (page 21).
No color	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust Color in the Picture Controls menu under Video (page 19).
Only snow appears on the screen	<ul style="list-style-type: none"> <input type="checkbox"/> Check the Cable setting in the Channel Setup menu (page 22). <input type="checkbox"/> Check the antenna and/or cable connections (page 4). <input type="checkbox"/> Make sure the channel selected is currently broadcasting.
Dotted lines or stripes	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the antenna. <input type="checkbox"/> Move the TV away from other electronic equipment. Some electronic equipment can create electrical noise, which can interfere with TV reception.
Double images or ghosts	<ul style="list-style-type: none"> <input type="checkbox"/> Check your outdoor antenna or call your cable service.
Cannot receive higher number channels (UHF) when using an antenna	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure Cable is set to Off in the Channel Setup menu (page 22). <input type="checkbox"/> Perform Auto Program to add channels that are not presently in the memory (page 14).

Other Information

Cable stations don't seem to work	<input type="checkbox"/> Make sure Cable is set to On in the Channel Setup menu (page 22).
	<input type="checkbox"/> Perform Auto Program to add channels that are not presently in the memory (page 14).
Remote control does not operate	<input type="checkbox"/> Batteries could be weak. Replace them (page 2).
	<input type="checkbox"/> Move the TV 3-4 or more feet away from fluorescent lights.
The TV needs to be cleaned	<input type="checkbox"/> Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.
Lost password for Parental Control	<input type="checkbox"/> In the password screen, enter the following master password: 4357. After using the master password, you must create a new password, it cannot be used to unlock currently blocked channels.
You lost your remote control	<input type="checkbox"/> You can use the front Audio/Video panel controls to access the menu (page 2). Contact your nearest Sony Dealer to order a replacement.

If, after reading these Operating Instructions, you have additional questions related to the use of your Sony television, please call our Direct Response Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

Specifications

For all models (except as noted)

Television system	American TV standard/NTSC
Channel coverage	VHF: 2-13/UHF: 14-69/CATV: 1-125
Antenna	75-ohm external antenna terminal for VHF/UHF
Picture tube	FD Trinitron® tube
Power requirements	120V, 60 Hz
Supplied Accessories	Size AA (R6) batteries (2) Remote Control RM-Y180 (1)
Optional Accessories	Connecting cables VMC-810S/820S, VMC-720M, YC-YC-15V/30V, RK74A EAC-66 U/V mixer

KV-20FV300

Screen size	Visible screen size: 20 inches (507 mm) measured diagonally Actual screen size: 21 inches (533.4 mm) measured diagonally
Inputs/outputs	2 video, 2 audio 1 S VIDEO 1 Y, Pb,Pr, 1 audio 1 AUDIO OUT 1 headphone jack
Speaker output	10 W x 2
Power Consumption	155 W in use 1 W in standby
Dimensions (W/H/D)	609 x 463 x 502 mm (24 x 18 ¹ / ₄ x 19 ³ / ₄ inches)
Mass	27 kg (59 lbs. 8oz.)


KV-24FV300

Screen size	Visible screen size: 24 inches (598 mm) measured diagonally Actual screen size: 25 inches (635 mm) measured diagonally
Inputs/outputs	2 video, 2 audio 1 S VIDEO 1 Y, Pb,Pr, 1 audio 1 AUDIO OUT 1 headphone jack
Speaker output	10 W x 2
Power Consumption	180 W in use 1 W in standby
Dimensions (W/H/D)	686.5 x 522 x 494.3 mm (27 x 20 ¹ / ₂ x 19 ¹ / ₂ inches)
Mass	37 kg (81 lbs. 9oz.)

Design and specifications are subject to change without notice.

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