

Trinitron[®] Color TV

Operating Instructions

KV-29VX2

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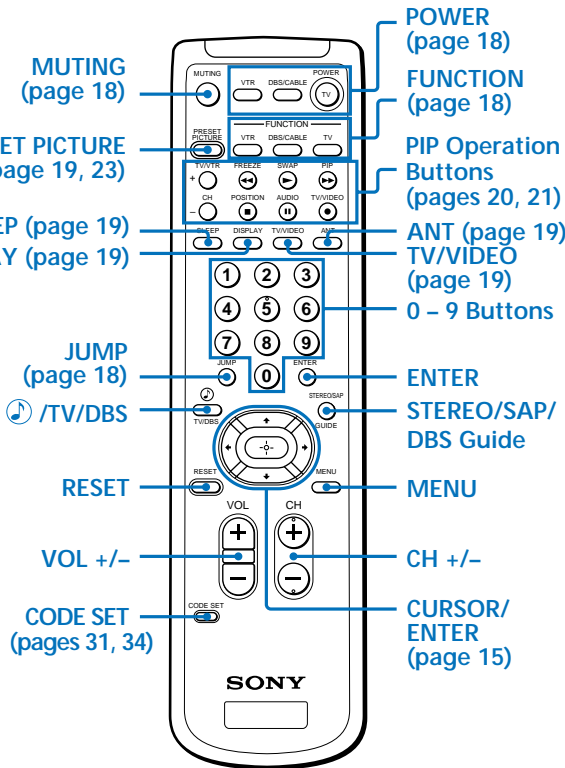
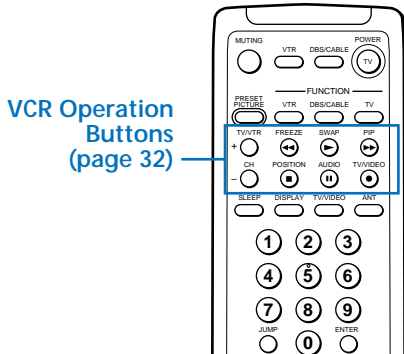
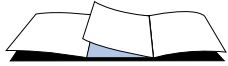
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Termo de Garantia

Back cover

Remote Control

In the instructions that follow, we will refer to the buttons on your remote control. Keep this flap unfolded and use this page for reference.



Getting to know the buttons on the remote control

Names of the buttons on the remote control are presented in different colors to represent the available functions.

Button color

- Transparent Press to select the component you want to control; e.g. VTR (VCR)/MDP/DVD Player, DBS (Direct Broadcast Satellite)/CABLE, or TV.
- Green Buttons relevant to power operations, like turning the TV, DBS (Direct Broadcast Satellite)/CABLE, or VTR (VCR)/MDP/DVD Player on or off.

Label color

- White TV/VTR (VCR)/MDP/DVD Player/DBS (Direct Broadcast Satellite)/CABLE operation buttons.
- Yellow PIP operation buttons.
- Blue DBS (Direct Broadcast Satellite) operation buttons.

For a detailed explanation of most buttons, see "Watching the TV" on page 18.

Advertências e Precauções

Para evitar perigo de fiação ou choque elétrico, não exponha o televisor à chuva ou umidade.

 ATENÇÃO RISCO DE CHOQUE ELÉTRICO NÃO ABRA	
ATENÇÃO Para reduzir risco de choque elétrico: NÃO ABRA A TAMPA. Em caso de avaria, consulte exclusivamente os técnicos qualificados pelo fabricante.	



Este símbolo tem o propósito de alertar o usuário sobre a presença de “voltagens perigosas” não isoladas, localizadas dentro do gabinete do produto, as quais podem ter intensidade suficiente para constituir risco de choque elétrico para as pessoas.



Este símbolo tem o propósito de alertar o usuário quanto à presença de importantes instruções de operação e manutenção (serviços) constantes do material escrito que acompanha o aparelho.

CUIDADO

Ao usar jogos eletrônicos, computadores e outros produtos semelhantes no seu televisor, mantenha as funções de brilho e contraste em níveis baixos. Se um padrão fixo (sem movimento) for deixado na tela por longos períodos estando o aparelho com um nível alto de brilho ou contraste, a imagem pode ser permanentemente gravada na tela. Este tipo de gravação na tela não está coberto pela garantia, porque é resultado de uso inadequado.

Precauções de segurança

- Este aparelho deve ser ligado somente em tomadas 110-240V/60 Hz.
- Por razões de segurança, o plugue entra na tomada de parede somente com uma orientação. Caso não consiga introduzir o plugue totalmente na tomada, contate seu distribuidor.
- Se qualquer líquido ou objeto cair dentro do televisor, desligue imediatamente o aparelho e leve-o a um Serviço Autorizado Sony.
- Se não for utilizar o televisor por vários dias ou por um período mais longo, desligue-o através da chave POWER do TV ou desconecte o cabo elétrico. Para desconectar o cabo elétrico, segure-o pelo plugue. Nunca puxe o próprio cabo.

Proteção ao televisor

- Para evitar o superaquecimento interno do aparelho, não bloqueie as aberturas de ventilação, deixando no mínimo 10 cm entre ele e as paredes que o cercam.
- Não instale o televisor em lugar quente ou úmido, ou em local em que fique exposto a quantidades excessivas de poeira ou a vibrações mecânicas.
- Para assegurar a dissipação do calor interno do aparelho, não coloque objetos ou toalhas decorativas sobre as aberturas para ventilação.

Observação Closed Caption

Este televisor permite ver texto sobreposto às imagens, desde que transmitido pela emissora.

Observações para o instalador de sistema de cabo (CATV)

O fio-terra do cabo deve conectar-se ao sistema de fio-terra do edifício no ponto mais próximo à entrada do fio-terra que for possível.

O emprego deste televisor para fins que não sejam a visualização em privado de programas de televisão de UHF, VHF ou transmitidos por companhias de televisão

a cabo para uso do público em geral pode requerer a autorização da emissora ou companhia de cabo, do proprietário do programa, ou de ambos.

Aviso

Este televisor não reproduz em cores fitas gravadas em 50 Hz, reproduzidas por vídeo cassetes transcodificados dos sistemas PAL e SECAM europeus, para os sistemas PAL-M e NTSC.

Limpeza

Limpe externamente o aparelho com um pano macio e seco. Não utilize álcool, detergentes, nem solventes, tais como benzina ou thinner, pois eles podem causar danos ao acabamento e às superfícies do aparelho. Antes da limpeza, por motivo de segurança, desligue o aparelho.

Reembalagem

Guarde a caixa e os materiais da embalagem original, para transportar o aparelho a outras localidades, quando necessário.

Registro do usuário

Nos espaços abaixo, anote os números do modelo e de série, que se encontram na parte posterior do televisor.

Mencione-os quando contatar o Serviço Autorizado Sony com respeito a este produto

Número do modelo:

Número de série:

Welcome!

Thank you for purchasing the Sony Trinitron® Color TV. This manual is for model KV-29VX2.

The features you will enjoy include:

- Picture-in-Picture (PIP)
- CANAL PREFERENCIAL feature, allowing you add a caption and set the video mode for up to 12 channels
- CANAL FAVORITO feature, allowing you to choose from five of your favorite programs
- Three AUDIO/VIDEO inputs
- One S Video inputs
- PAL- M/NTSC - reproduction in TV PAL-M and NTSC systems, allowing connection of video equipment (NTSC) without transcoding.
- STEREO DECODIFIER (MTS) with SAP FUNCTION - selects the sound transmitted by the emissors and allows audition of original sound (when transmitted) of a dubbed program which you may be watching

Precautions

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Do not install the TV near any fire. (for example, oven or cook fire)
- Do not put a candle etc. on the TV.

Using This Manual

This manual is divided into four major sections. We recommend that you carefully review the contents of each section in the order provided to ensure that you fully understand the operation of your new TV.

1 Installing and Connecting the TV.

This section will guide you through your initial set up. It will show you how to connect your new components, connect to your antenna or cable, and connect any accessories.

2 Basic Set Up.

This section will teach you the basic skills needed to operate your new TV. It will show you how to operate special functions of the remote control.

3 Using your New TV.

This section will show you how to begin using your new TV. It will show you how to use the AUTO PROGRAMAÇÃO feature, and how to use your remote control's features.

4 Adjusting your Set Up (menus).

This section will teach you how to access on-screen menus and adjust your TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the TV console.

Important Safeguard

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



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.



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.



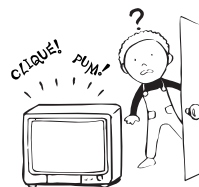
Object and Liquid Entry — Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



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



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

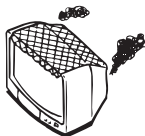
Water and Moisture — Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



Accessories — Do not place the set on an unstable cart, stand, 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.

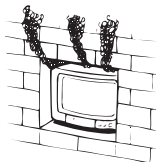
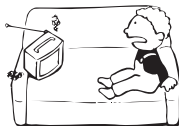


An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



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.

Important Safeguard (continued)

Antennas

Outdoor Antenna Grounding — If an outdoor antenna is installed, follow the precautions below.

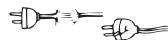
An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it, can come in contact with such power lines or circuits.

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.

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.
- 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.

Connecting and Installing the TV

Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna connector

Plug Type

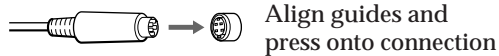


Screw-on Type

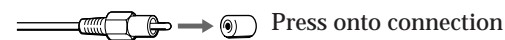


S Video cable

High quality video connector for enhanced picture quality



Audio/Video cable



Video - Yellow

Audio (Left) - White

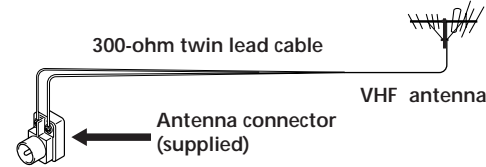
Audio (Right) - Red

Making Connections

For the best picture quality, a cable TV system or outdoor antenna is recommended.

Connecting a VHF antenna with twin lead cable

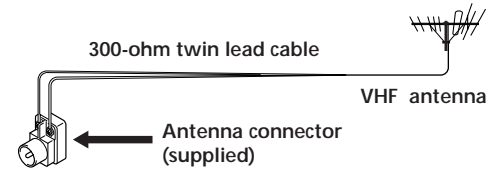
- 1 Connect the end of the 300-ohm twin lead cable to the antenna connector.



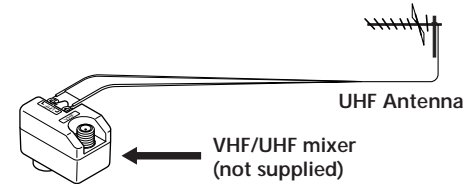
- 2 Connect the antenna connector to the VHF/UHF antenna terminal.

Connecting to VHF and UHF antennas with twin lead cables

- 1 Connect the end of the 300-ohm twin lead cable (VHF) to the antenna connector.

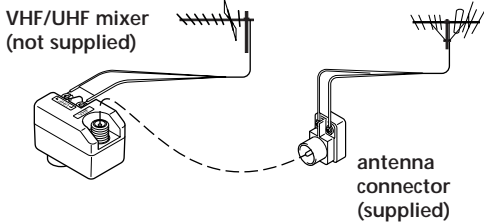


- 2 Connect the end of the 300-ohm twin lead cable (UHF) to the VHF/UHF mixer



Connecting and Installing the TV (continued)

- 3 Connect the antenna connector to the VHF/UHF mixer.



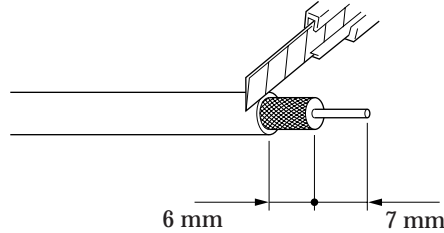
- 4 Connect the VHF/UHF mixer to the VHF/UHF antenna terminal.

Connecting a VHF or combined VHF/UHF antenna, through a coaxial cable

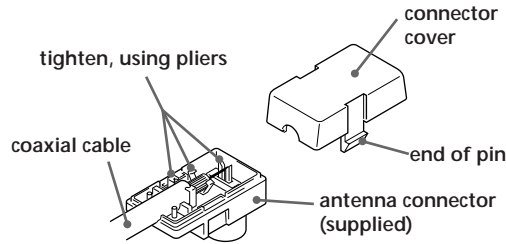
Note:

- The end of the coaxial cable of your combined VHF/UHF antenna has a F type plug, connect it directly to the VHF/UHF antenna terminal (in this case, however, ignore the instructions below, as there is no need for the antenna connector)

- 1 Prepare the end of the coaxial cable.



- 2 Remove the cover of the antenna connector (press the end of the two pins), position the coaxial cable and replace the cover.



- 3 Connect the antenna connector to the VHF/UHF antenna terminal.

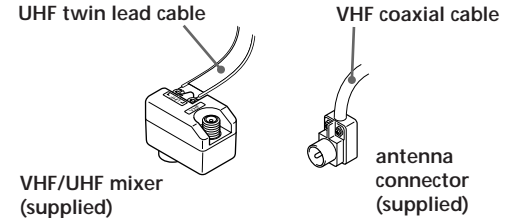
Connecting a VHF antenna with coaxial cable and a UHF antenna with twin lead cable

- 1 Connect the end of the coaxial cable to the antenna connector, following steps 1 and 2 mentioned in the diagram above.

Note:

- If the end of the coaxial cable of your VHF antenna has an F type plug, connect it directly to the VHF/UHF mixer (in this case ignore steps 1 and 2 described in the diagram above) and follow steps 2 and 3 below.

- 2 Connect the antenna connector (or the F type plug) to the VHF/UHF mixer.

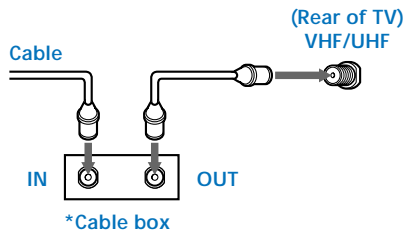


- 3 Connect the VHF/UHF mixer to the VHF/UHF antenna terminal.

Connecting a cable box

Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.

Please contact your local CATV or DBS provider for cable box or DBS receiver connection.



Note:

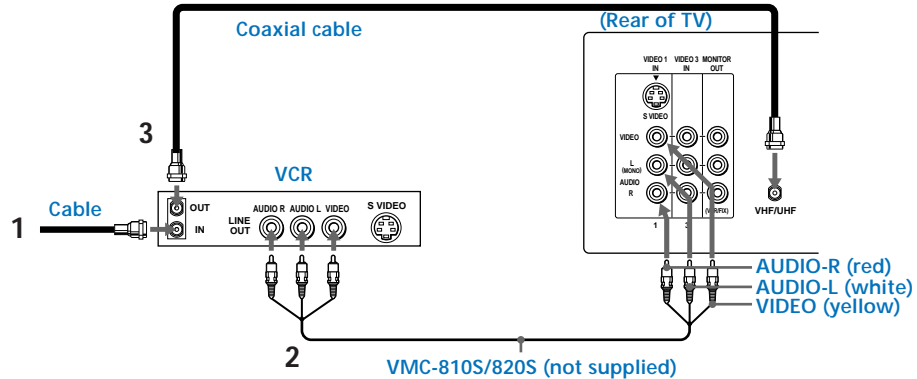
- You may be able to program your Sony remote control to operate your cable box. (see "Operating a Cable Box or DBS Receiver" on page 34)

Connecting and Installing the TV (continued)

Disconnect all power sources before making any connections.

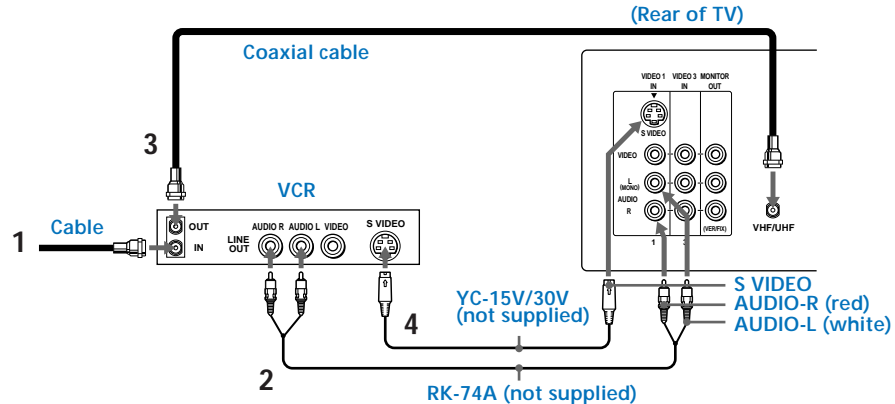
Connecting an antenna/cable TV system with a VCR

- 1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).
- 3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.



Connecting to an S Video equipped VCR

- 1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
- 2 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your TV (White-AUDIO Left, Red-AUDIO Right).
- 3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.
- 4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your TV.



Note:

- If you are connecting a monaural VCR, connect only the single audio output to the left (MONO) input on your TV.

Connecting a VCR and TV with a cable box

- 1 Attach the coaxial connector from your cable to IN on your cable box.
- 2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
- 3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

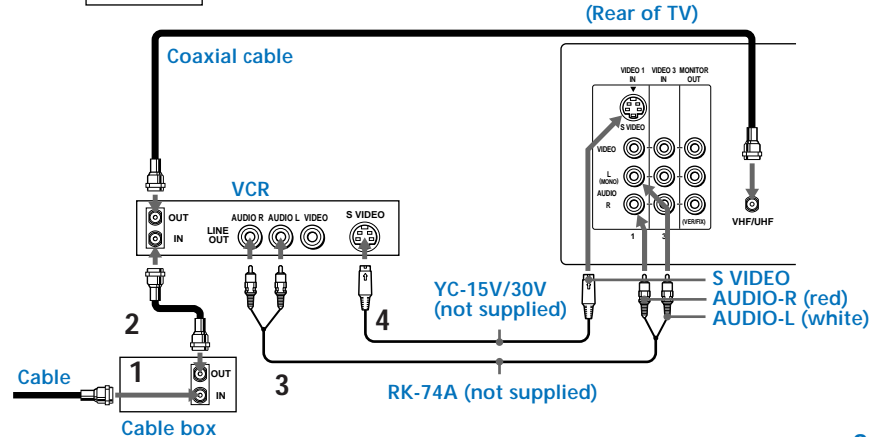
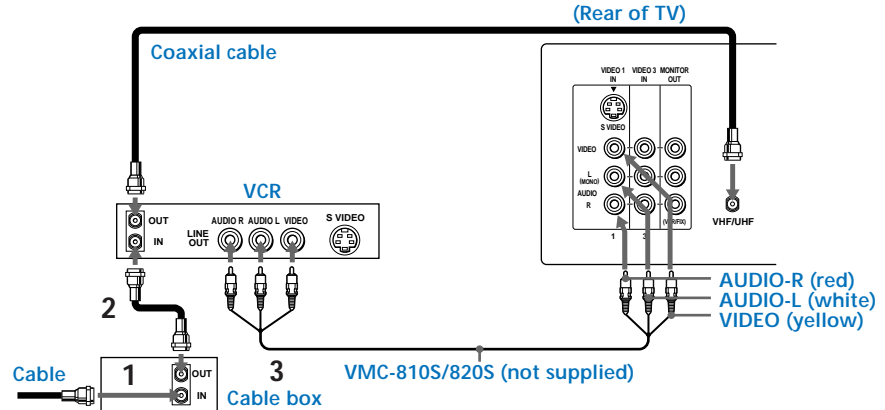
Connecting to an S Video equipped VCR with a cable box

- 1-2 Perform as described above.
- 3 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your TV (White-AUDIO Left, Red-AUDIO Right).
- 4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your TV.

Note:

- To view scrambled channels through your cable box, select the video input which your cable box is connected to by pressing TV/VIDEO.

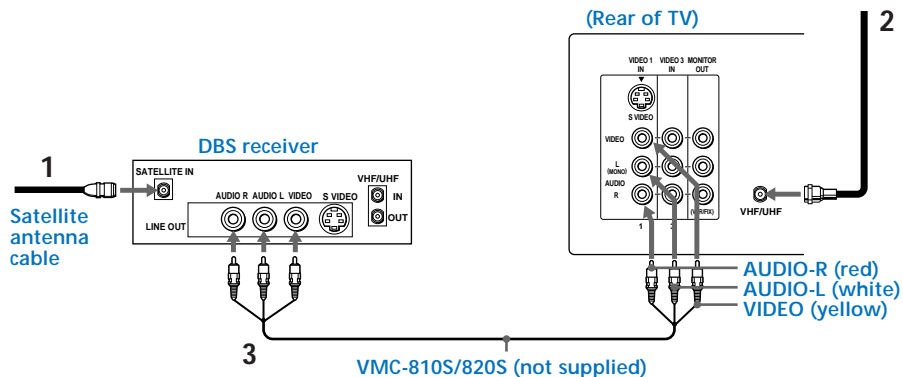
Disconnect all power sources before making any connections.



Connecting and Installing the TV (continued)

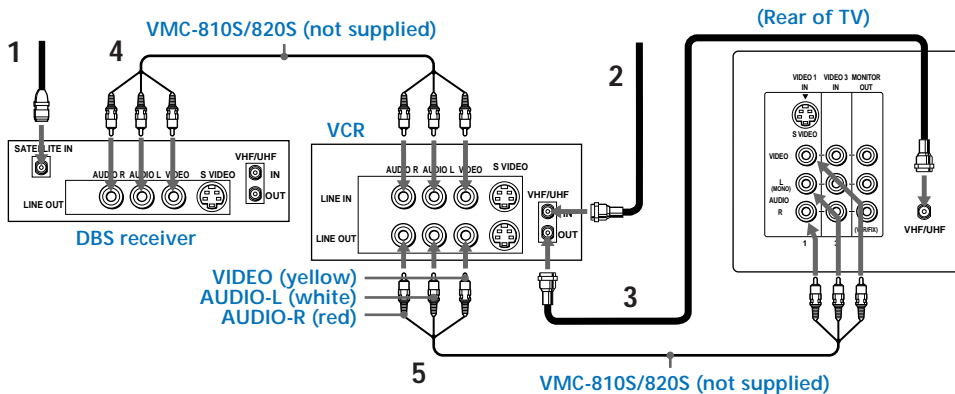
Connecting a DBS (Direct Broadcast Satellite) receiver

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF on your TV.
- 3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your TV.



Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF-IN on your VCR.
- 3 Using a coaxial connector, connect VHF/UHF-OUT on your VCR to VHF/UHF on your TV.
- 4 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your VCR.
- 5 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.



Note:

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

Connecting an audio system

For more dynamic sound, connect your audio system to your TV.

- 1 Using AUDIO connectors, connect MONITOR AUDIO OUT on your TV to one of the unused Line inputs (e.g. Tape-2, AUX1, etc.) on your stereo (White-AUDIO Left, Red-AUDIO Right).
- 2 Set your stereo to the chosen Line input and use the AUDIO menu to set your audio output. (see “FALANTES” and “AUDIO OUT” on page 24)

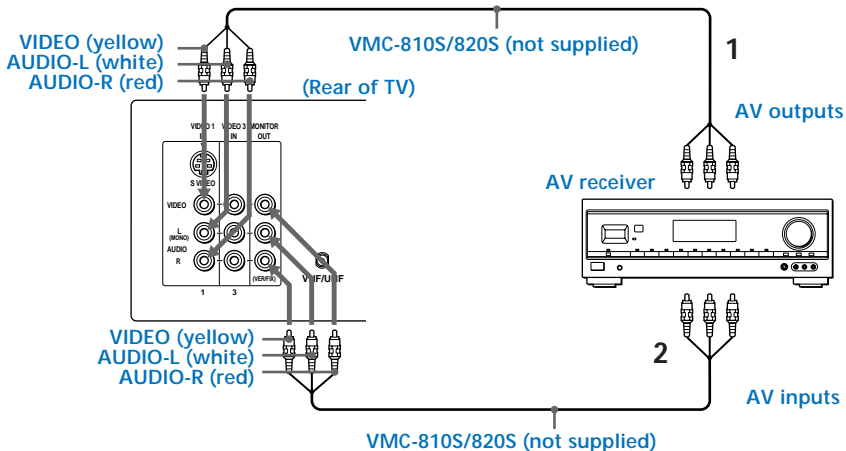
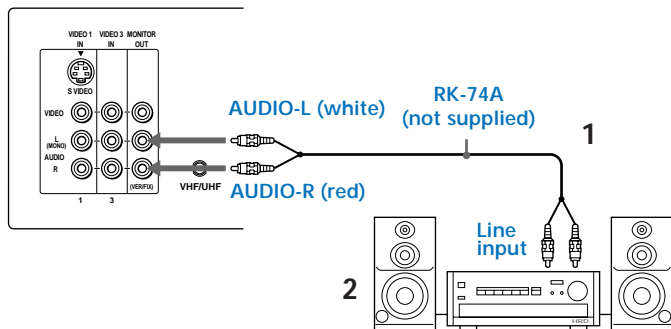
Connecting an AV receiver

For greater control of all audio and video equipment, connect your AV receiver.

- 1 Using AUDIO/VIDEO connectors, connect VIDEO 1 IN on your TV to Monitor AUDIO and VIDEO OUT on your AV receiver.
- 2 Using AUDIO/VIDEO connectors, connect MONITOR AUDIO and VIDEO OUT on your TV to TV AUDIO and VIDEO IN on your AV receiver.

Disconnect all power sources before making any connections.

(Rear of TV)



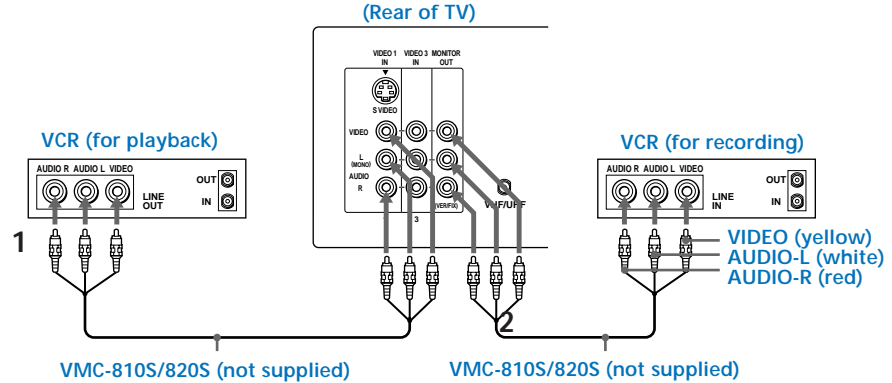
Connecting and Installing the TV (continued)

Disconnect all power sources before making any connections.

Connecting two VCRs for tape editing using MONITOR OUT

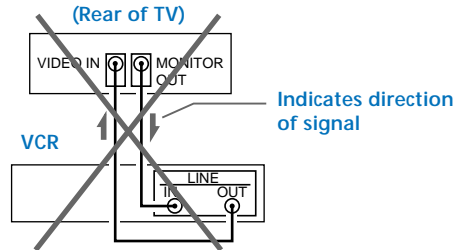
MONITOR OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

- 1 Connect the VCR intended for playback using the connection instructions on page 8 of this manual.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.



Notes:

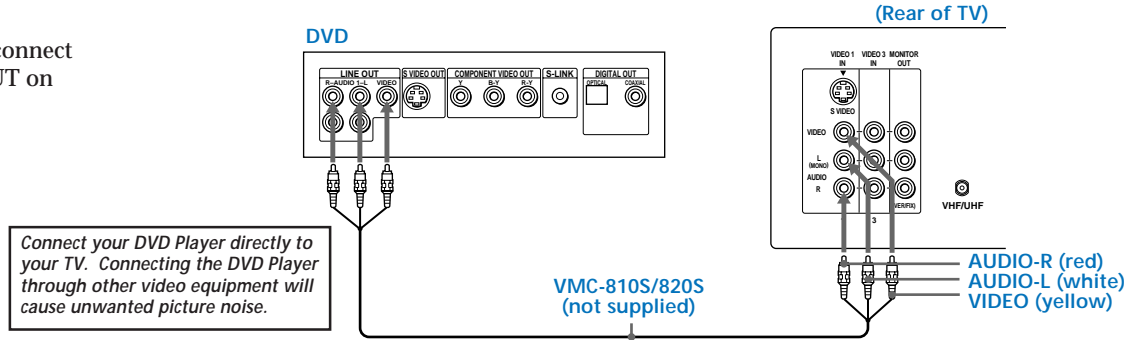
- Do not change the input signal while editing through MONITOR OUT.
- When connecting a single VCR to the TV; if VCR LINE OUT is connected to TV VIDEO IN, **do not** connect the TV MONITOR OUT jacks to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.



Connecting a DVD Player

Using AUDIO/VIDEO connectors, connect VIDEO 1 IN on your TV to LINE OUT on your DVD Player.

Disconnect all power sources before making any connections.



Connecting and Installing the TV (continued)

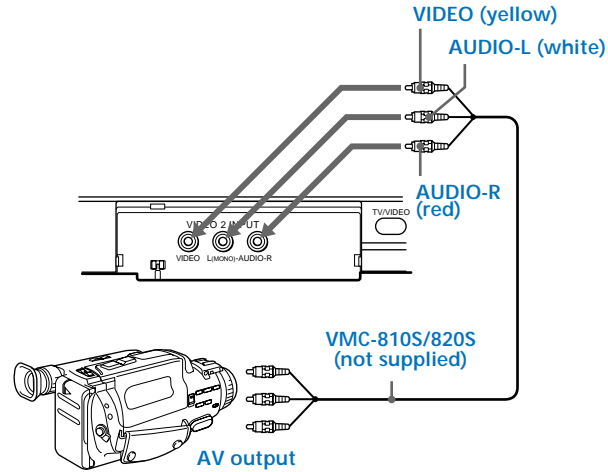
Connecting a camcorder

Use this connection to view a picture directly from your camcorder.

Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your camcorder to VIDEO 2 INPUT on the front panel of your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

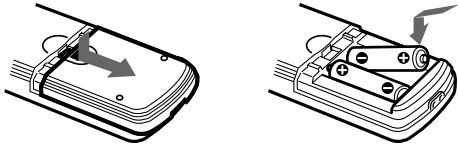
Note:

- If you are connecting a monaural camcorder, connect only the single audio output to the left (MONO) input on your TV.



Inserting Batteries

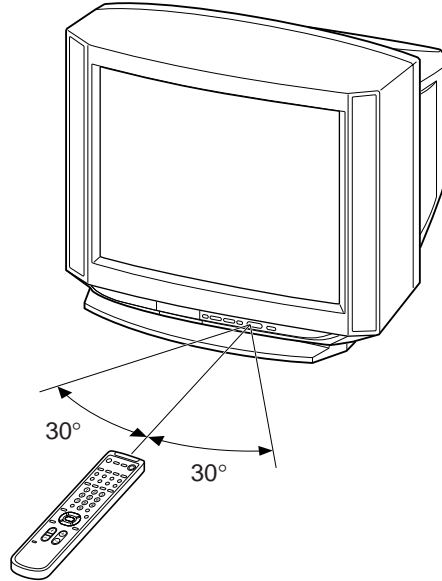
Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the battery compartment.



Notes:








- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (see "Operating Video Equipment" on page 31)

Using the Remote Control



Point the remote control at the remote sensor on the main unit.

Adjusting Sliders

When menu items present a slider ( or ), press  /  /  /  and  to adjust the setting.

On Line Help/Instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions.

When the instructions are presented, use them to supplement the instructions in this manual.

Using your New TV

Presetting the Channels Automatically

The AUTO PROGRAMAÇÃO feature will allow you to preset all receivable channels.

Tips

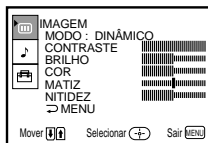
- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- After using AUTO PROGRAMAÇÃO you will still have the option of adjusting any of the system settings, like erasing channels, through the AJUSTES menu. (see “SELEÇÃO DE CANAL” on page 26)

- 1 Press TV POWER to turn on the TV.

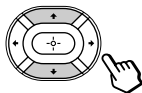




- 2 Press MENU.

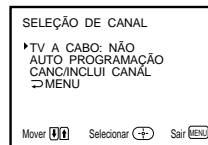
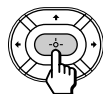
The main menu appears.



- 3 Press  or  to select  and press .





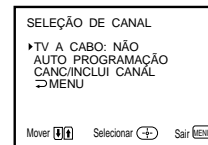
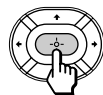
- 4 Make sure the cursor () is to SELEÇÃO DE CANAL and press .



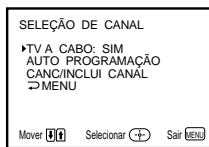
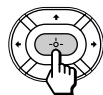
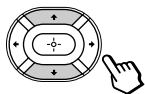
- 5 If your TV receives from the antenna, skip to step 8.

If your TV receives cable TV channels, proceed from step 6.

- 6 Make sure the cursor () is to TV A CABO and press .

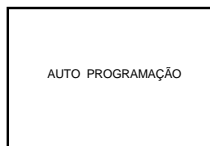
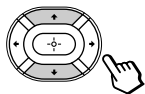


7 Press **↑** or **↓** to select SIM and press **+** .



9 Press MENU to return to the original screen.

8 Press **↑** or **↓** to select AUTO PROGRAMAÇÃO and press **+** .



“AUTO PROGRAMAÇÃO” appears and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, the lowest numbered channel is displayed.

Using your New TV (continued)

Watching the TV


Many TV features can be accessed directly through the remote control. The following chart will explain the function of some buttons found on your remote control.



REFER TO THE
ILLUSTRATION OF THE
REMOTE CONTROL ON THE
INSIDE FRONT COVER OF
THIS MANUAL AS YOU
REVIEW THIS CHART

Using the White Labeled Buttons for TV Operations.	
TV (FUNCTION)	Activates the remote control for use with the TV.
TV POWER	Turns the TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO until a channel number appears.
0 - 9 and ENTER	Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0), the channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/-	Every time you press this button, the channel will change (+ up or - down). Channel Surf <ol style="list-style-type: none">1. Press and hold to change the channel number.2. Release to display the selected channel.
VOL +/-	Press to adjust the volume (+ up or - down).
JUMP	Press to alternate or <i>jump</i> back and forth between two channels. The TV will jump between the current channel and the last channel selected using the 0-9 buttons.
MUTING	Press to mute the sound ("MUTING" will appear on the screen). Press again or press VOL + to restore sound.

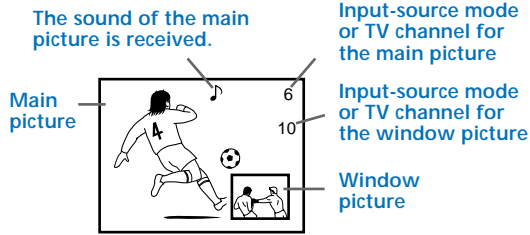
Using the White Labeled Buttons for TV Operations.

<p>FREEZE</p>  <p><i>(yellow labeled button)</i></p>	<p>Press to display the frozen window picture. Press again to cancel.</p>
<p>SLEEP</p>	<p>Press repeatedly until the TV displays the approximate time in minutes (30, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until "SLEEP OFF" appears.</p>
<p>DISPLAY</p>	<p>Press repeatedly to step through available displays:</p> <p>Status Channel number, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.</p> <p>Caption Vision Caption Vision will be displayed on the screen if the broadcaster offers this service. (see "[CC]/TEXT" on page 27). To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" disappears after three seconds.</p>
<p>TV/VIDEO</p>	<p>Press repeatedly to step through available video inputs: TV, VIDEO 1, VIDEO 2 and VIDEO 3</p>
<p>ANT</p>	<p>Press to change between the VHF/UHF input and the VIDEO input during the VIDEO input mode.</p>
<p>PRESET PICTURE</p>	<p>Press to cycle through the MODO options in the IMAGEM menu. (see "MODO" on page 23).</p>
<p>STEREO/SAP</p>	<p>Press to cycle through the Multichannel TV Sound (MTS) options. (see "MTS" on page 25)</p>

Using your New TV (continued)

Watching Two Programs at One Time — PIP






The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size “main” picture and one in a smaller “window” picture.



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

Using the Yellow Labeled Buttons for PIP Operations.	
PIP 	Press to display a window picture (PIP). Each time you press, the picture size will change (1/9 → 1/16 → OFF).
TV/VIDEO 	Press repeatedly to step through available video inputs: TV, VIDEO 1, VIDEO 2 and VIDEO 3 PIP will display the video source in the window picture.
AUDIO 	Press to alternate sound between the main picture and the window picture. The symbol "♪" will appear for a few seconds to indicate which picture's sound is being received.

Using the Yellow Labeled Buttons for PIP Operations.

<p>TV/VTR +  CH - </p>	<p>Press to change the TV channel in the window picture (+ to increase the channel number and – to decrease).</p>
<p>POSITION </p>	<p>Press to move the location of the window picture (counterclockwise) around the main picture.</p>
<p>FREEZE </p>	<p>Great for copying down phone numbers, addresses, recipes, etc. Press to freeze the window picture Press again to resume PIP viewing.</p>
<p>SWAP </p>	<p>Press to switch the audio and video of the main picture and the window picture for PIP. Each time you press SWAP, the picture and sound of the two will be exchanged.</p>

Note:

If one of the pictures received through PIP is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see “CANC/INCLUI CANAL” on page 26)

Adjusting your SET UP (menus)

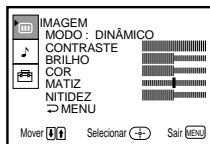
Learning Menu Selection

Use the MENU button to access a menu and use the $\uparrow/\rightarrow/\downarrow/\leftarrow$ and $(+)$ button to alter settings. Use the following example to learn how to modify settings.

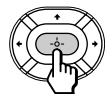
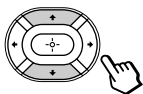
- 1 Press the MENU button.

The main menu appears.

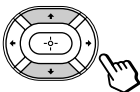
MENU



- 2 Press \uparrow or \downarrow to highlight the desired menu and press $(+)$ to activate it.

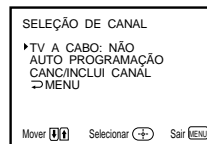


- 3 Press \uparrow or \downarrow until the cursor points to the desired option.

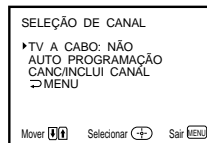
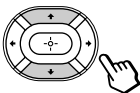


- 4 Press $(+)$.

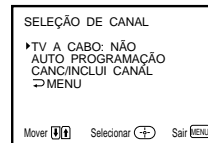
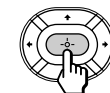
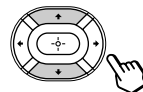
Options for your selection will be displayed.



- 5 Press \uparrow or \downarrow until the cursor points to the desired option and press $(+)$.



- 6 Press \uparrow or \downarrow to make your selection and press $(+)$ to activate it.

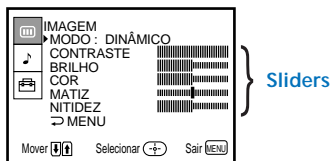


When you are done with changes to the selected menu, choose MENU to return to the main menu. Once you have completed all menu corrections, press MENU on the remote control to exit the menu screens.

Note:

- Pressing MENU on the remote control will allow you to exit from the menus at any time.

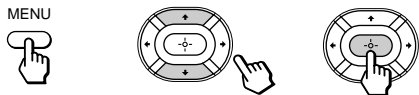
III Using the IMAGEM Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 22.

To select the IMAGEM III menu:

Display → Highlight III → Select



To restore the factory settings

Press RESET on the remote control while the IMAGEM menu is selected.

Tip

Press PRESET PICTURE to modify the MODO setting directly.

<p>MODO <i>Customized picture viewing</i></p>	<p>You can set different IMAGEM menu values for each MODO except DINÂMICO and store them in memory. Select each MODO individually when restoring it to the factory setting.</p> <p>DINÂMICO: Select for enhanced picture contrast and sharpness.</p> <p>ESPORTE: Select to display a vivid, bright picture.</p> <p>PESSOAL: Select to customize the values from IMAGEM menu according to your personal preference.</p> <p>PREFERENCIAL: Select to store the MODO or customized values from the IMAGEM menu for up to 12 channels to which you have added captions using the CANAL PREFERENCIAL feature. When selecting this mode, you have to add a caption with the CANAL PREFERENCIAL, otherwise you cannot customize each value in the IMAGEM menu. (For details, see “Customizing the Channel Names” on page 28)</p>
<p>CONTRASTE <i>Picture Adjustment</i></p>	<p>Adjust slider → (↑) to increase picture contrast and create more vivid color. Adjust slider ← (↓) to decrease picture contrast and soften the color.</p>
<p>BRILHO <i>Picture Adjustment</i></p>	<p>Adjust slider → (↑) to the brighten picture. Adjust slider ← (↓) to darken the picture.</p>
<p>COR <i>Picture Adjustment</i></p>	<p>Adjust slider → (↑) to increase color intensity. Adjust slider ← (↓) to decrease color intensity.</p>
<p>MATIZ <i>Picture Adjustment</i></p>	<p>Adjust slider → (↑) to increase the green tones. Adjust slider ← (↓) to decrease the green tones.</p>
<p>NITIDEZ <i>Picture Adjustment</i></p>	<p>Adjust slider → (↑) to sharpen the picture. Adjust slider ← (↓) to soften the picture.</p>

Adjusting your SET UP (menus) (continued)

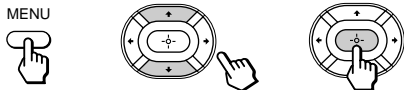
Using the SOM Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 22.

To select the SOM menu:

Display → Highlight → Select



To restore the factory settings

Press RESET on the remote control while the SOM menu is selected.

Tip

Press to modify the SURROUND setting directly.

AGUDOS <i>Sound Adjustment</i>	Adjust slider → (↑) to increase high pitched sounds. Adjust slider ← (↓) to decrease high pitched sounds.
GRAVES <i>Sound Adjustment</i>	Adjust slider → (↑) to increase low pitched sounds. Adjust slider ← (↓) to decrease low pitched sounds.
BALANÇO <i>Sound Adjustment</i>	Adjust slider → (↑) to emphasize right speaker volume. Adjust slider ← (↓) to emphasize left speaker volume.
AUTO VOLUME <i>Adjust the sound level.</i>	SIM: Sound output coming from TV speakers have the volume level equalized for all channel audio inputs when broadcasts have different sound transmission levels. NÃO: Sound output coming from the TV speakers varies according to the received channel.
FALANTES <i>Custom selection of audio output source.</i>	SIM: Select to listen to the sound from the TV speakers alone or the TV speakers and a separate stereo system. NÃO: Select to turn off the TV speakers and listen to the TV's sound only through external audio system speakers.
AUDIO OUT <i>Easy control of volume adjustments.</i>	AUDIO OUT can only be set when FALANTES is set to NÃO. VARIÁVEL: Sound output varies according to the TV settings. VOLUME, AGUDOS, GRAVES, and BALANÇO are adjusted through the TV. Useful when you want to use your remote control to control the output of a separate audio system. FIXO: Sound output is held at a fixed level. VOLUME, AGUDOS, GRAVES, and BALANÇO are fixed to the factory settings. VOLUME adjustments are made through your stereo.

OPÇÕES

Enjoy sound effects.

MTS

ESTÉREO: Select for stereo reception when viewing a program broadcast in stereo.

SAP: Select to listen to a bilingual broadcast.

MONO: Select for mono reception (Use to reduce noise during stereo broadcast)

Quick MTS access: Press STEREO/SAP on your remote control to cycle through the MTS options as follows: (ESTÉREO → SAP → MONO → ESTÉREO)

SURROUND

SIM: Activate a surround-like effect.

NÃO: Deactivate a surround-like effect.

INDICAÇÃO VOLUME

BAR: Select to indicate the sound level with slider.

NUM: Select to indicate the sound level with number between 0 (min) and 63 (max).

Tip

When watching a program with subtitles, set to "NUM". The number indication appears in the bottom left corner of the screen, so as not to cover the subtitles.

AUTO ESTÉREO

SIM: Select to return to main sound automatically when non-SAP program is received. In this case, the SAP indication appears in yellow.

NÃO: Deactivate a surround-like effect.

OPÇÕES

▶MTS: ESTÉREO
SURROUND: SIM
INDICAÇÃO VOLUME: BAR
AUTO ESTÉREO: SIM
⇒MENU

Mover  Selecionar  Sair 

Adjusting your SET UP (menus) (continued)

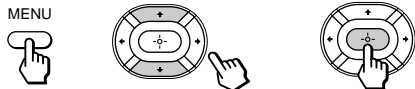
Using the AJUSTES Menu



For detailed information on using the remote control to modify menu settings, refer to “Learning Menu Selection” on page 22.

To select the AJUSTES menu:

Display → Highlight → Select



If any menu items are “grayed out”, press the ANT button on your remote control so that a channel number appears.

SELEÇÃO DE CANAL

Basic set up options for viewing

With the SELEÇÃO DE CANAL window open:

- 1 Press \uparrow or \downarrow to select the feature you want to change.
- 2 Press $(+)$ to access the feature.

TV A CABO:

Select SIM if your TV is connected to a cable system.

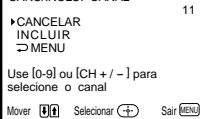
Select NÃO if your TV is connected to an antenna.

AUTO PROGRAMAÇÃO:

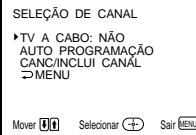
Signals the TV to automatically program all receivable channels. (For details on how to set up this feature, see “Presetting the Channels Automatically” on page 16)

CANC/INCLUI CANAL:

With the CANC/INCLUI CANAL window open:



- 1 Place the cursor next to CANCELAR or INCLUIR.
- 2 Select the desired channel using CH+/- , or by selecting with the 0-9 buttons and pressing ENTER.
- 3 Press $(+)$.



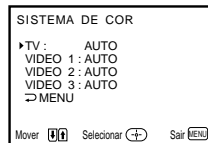
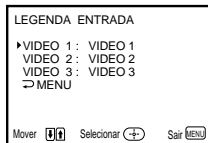
CANAL PREFERENCIAL

Add a caption for up to 12 channels.

The CANAL PREFERENCIAL feature allows you to easily identify which channel you are watching.

(For details on how to set up this feature, see “Customizing the Channel Names” on page 28)

<p>CANAL FAVORITO <i>User's favorite channels</i></p>	<p>The CANAL FAVORITO feature allows your TV to memorize your favorite channels easily. (For details on how to set up this feature, see "Setting and Selecting CANAL FAVORITO" on page 29)</p>
<p>LEGENDA ENTRADA <i>Easy recognition of connected equipment (e.g. DBS, VHS, etc.).</i></p>	<p>The LEGENDA ENTRADA feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).</p> <p>1 Press ↑ or ↓ to select the input mode you want to label and press (+).</p> <p>2 Press ↑ or ↓ to select the label and press (+).</p> <p>VIDEO LABEL Options: VIDEO 1: VHS, 8mm, LD, S VIDEO, DVD, DBS VIDEO 2: VHS, 8mm, LD, DVD, DBS VIDEO 3: VHS, 8mm, LD, DVD, DBS</p>
<p>[CC]/TEXT <i>Select the caption type.</i></p>	<p>See the right column.</p>
<p>SISTEMA DE COR <i>Select the TV color system.</i></p>	<p>The SISTEMA DE COR feature allows you to set the TV system for each input mode. Normally, set them to "AUTO."</p> <p>1 Press ↑ or ↓ to select the input mode and press (+).</p> <p>2 Press ↑ or ↓ to select the TV system (AUTO-PALM-NTSC) and press (+).</p>
<p>PORTUGUÊS or ESPAÑOL <i>User's preferred language</i></p>	<p>Select from available languages to display all menus in your language of choice.</p>



CAPTION VISION ([CC]/TEXT)

(Closed Caption)

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu. CC1, CC2, CC3, or CC4 shows you on-screen version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you on-screen information presented using either half or the whole screen. It is not usually related to the program.

- 1 Press **↑** or **↓** select **[CC]/TEXT** and press **(+)**.
- 2 Press **↑** or **↓** select the caption type and press **(+)**.
- 3 Press MENU to return to the original screen.

To display Caption Vision

Press DISPLAY repeatedly.

Notes:

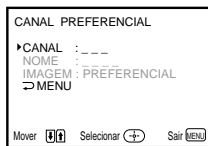
- Poor reception of TV programs can cause errors in Caption Vision. Captions may appear with a white box or other errors instead of intended text.
- Caption Vision and the status display cannot be used at the same time.

Adjusting your SET UP (menus) (continued)

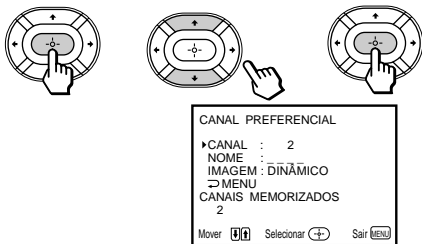
Customizing the Channel Names

You can add a caption and set the video mode for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.

- 1 Select CANAL PREFERENCIAL from AJUSTES menu.



- 2 Press (+) and press ↑ or ↓ to select the channel that you want to caption, and press (+).

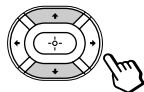


- 3 Enter the letters (up to four) to caption the channel:

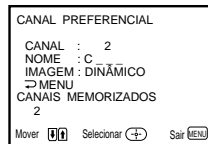
- (1) Press ↑ or ↓ to select the first letter.

Each time you press ↑ or ↓, the letter changes as follows:

0...9 ↔ A...Z ↔ &./,_(blank space)



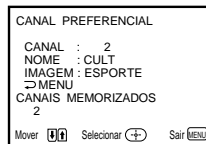
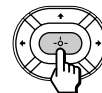
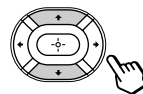
- (2) Press (+).



- (3) Repeat steps (1) and (2) to select the remaining letters, and press (+).

- 4 Press ↑ or ↓ to select the desired IMAGEM MODO, and press (+).

If selecting PREFERENCIAL, the values of up to 12 channels can be customized in the IMAGEM menu. (For details, see “MODO” on page 23)



- 5 Repeat steps 2 – 4 to caption other channels.
- 6 Press MENU to return to the original screen.

After you customize the channel, the channel caption appears green.

To erase a caption

In step 3, press RESET.

Notes:

- If the CANAL PREFERENCIAL menu appears in gray, the TV is set to a video input, and you cannot select CANAL PREFERENCIAL. Press ANT so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

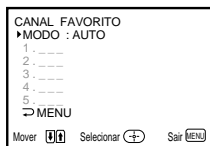
Setting and Selecting CANAL FAVORITO

The CANAL FAVORITO feature allows your TV to memorize your favorite channels easily.

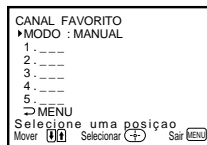
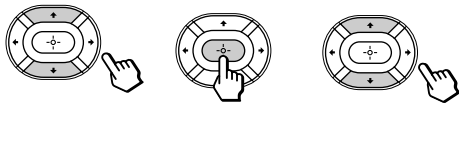
If you set to AUTO, the last five channels you selected with the 0 – 9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

Setting your favorite channels

- 1 Select CANAL FAVORITO from AJUSTES menu.



- 2 Press and press or to select AUTO or MANUAL, and press .

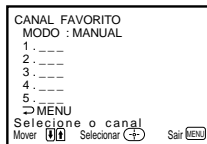
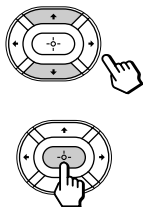


If you select AUTO, skip steps 3 and 4.

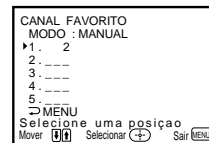
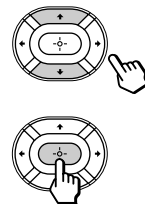
The last five channels you selected with the 0 – 9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

- 3 Press or to select a favorite channel number, and press .



- 4 Press or to select the channel that you want to set as your favorite channel, and press .



- 5 Press MENU to return to the original screen.

Notes:

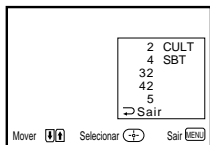
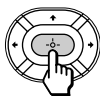
- If the CANAL FAVORITO menu appears in gray, the TV is set to a video input, and you cannot select CANAL FAVORITO. Press ANT so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.




Adjusting your SET UP (menus) (continued)

Selecting your favorite channel

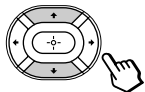
1 Press .

The CANAL FAVORITO menu appears.





2 Press  or  to select the favorite channel you want to watch, and press .

The selected channel appears on the screen.



To cancel the CANAL FAVORITO menu

Press  or  to select “Sair” and press .

Setting the Manufacturer's Code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

The code numbers for Sony equipment are assigned at the factory as follows:

VHS VCR	301 (preset code for the supplied remote control)
8 mm VCR	302
Beta, ED Beta VCRs	303

1 Press CODE SET, VTR (FUNCTION), the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony 8mm VCR:



If the remote control doesn't work

- See the note on page 35.

VCR manufacturer code numbers

Manufacturer number	Code
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 337
Bell & Howell (M. Wards)	330, 343
Brocsonic	319
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335
Magnavox	308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Wards)	338, 327

Operating Video Equipment (continued)

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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	330, 314, 336, 337
Zenith	331

MDP manufacturer code numbers

Manufacturer number	Code
Sony	701
Kenwood	707
Magnavox	703
Maranz	702
Mitsubishi	702
Panasonic	704
Philips	703
Pioneer	702
RCA	702
Sanyo	706
Sharp	705
Yamaha	703

DVD manufacturer code numbers

Manufacturer number	Code
Sony	751












Tip

- *In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.*
- *When you remove the batteries, the code number may revert to the factory setting.*

To operate video equipment

Use the video operating buttons on the remote control to operate the video equipment.

Press VTR (FUNCTION) before operating the video equipment.

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To select a channel directly	Press the 0 - 9 buttons.
To change channels	Press CH +/-.
To record	Press  while pressing  . First release  , then release  .
To play	Press  .
To stop	Press  .
To fast forward	Press  .
To rewind the tape	Press  .
To pause	Press  . To resume normal playback, press again.
To search the picture forward or backward	Press  or  during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ▬. To resume normal playback, press again.
To search the picture forward or backward	Keep pressing ►► or ◀◀ during playback. To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/-.

Operating an DVD	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ▬. To resume normal playback, press again.
To search the picture forward or backward	Keep pressing ►► or ◀◀ during playback. To resume normal playback, release the button.

Note

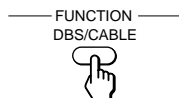
- If the video equipment does not have a certain function, the corresponding button on this remote control will not operate.

Operating a Cable Box or DBS Receiver

Setting the Manufacturer's Code

You can program the supplied remote control to operate a cable box or DBS receiver.

- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



- 2 Press CODE SET, DBS/CABLE (FUNCTION), the 0-9 buttons to enter the manufacturer's code number (see the following chart), then press ENTER.

For example, to operate a Sony DBS receiver:



- 3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



- 4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0-9 and ENTER buttons.

Note

- If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote control will not operate.

Manufacturer code numbers (cable box)

Manufacturer	Code
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

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
RCA/PROSCAN	802

To operate the TV

Press TV (FUNCTION). Then use the TV control buttons to control the TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

- First, try repeating the set up procedures using the other codes listed for your equipment.

Tips

- *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 rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.*
- *Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.*

Troubleshooting

No picture (screen not lit), no sound

- Make sure the power cord is plugged in.
- Operate with the buttons on the TV and the remote control.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO 1, 2 or 3.
- Try another channel. *It could be station trouble.*

Remote control does not operate

- Batteries could be weak. Replace the batteries.
- Press TV (FUNCTION) when operating your TV.
- Make sure the TV's power cord is connected securely to the wall outlet.
- Locate the TV at least 3-4 feet away from fluorescent lights.
- Check the polarity of the batteries.

Poor or no picture (screen lit), good sound

- Adjust CONTRASTE in the IMAGEM menu. (see "CONTRASTE" on page 23)
- Adjust BRILHO in the IMAGEM menu. (see "BRILHO" on page 23)

- Check antenna/cable connections.

Good picture, no sound

- Press MUTING so that "MUTING" disappears from the screen. (see "MUTING" on page 18)
- Check the MTS setting in the SOM menu. (see "OPÇÕES" on page 25)
- Make sure FALANTES is set to SIM in the AUDIO menu. (see "FALANTES" on page 24)
- Set AUTO ESTÉREO to SIM in the SOM menu. (see "OPÇÕES" on page 25)
- Set the appropriate TV system in the AJUSTES menu. Normally, set it to "AUTO." (see "SISTEMA DE COR" on page 27)

Cannot receive upper channels (UHF) when using an antenna

- Make sure TV A CABO is NÃO in the AJUSTES menu. (see "SELEÇÃO DE CANAL" on page 26)
- Use AUTO PROGRAMAÇÃO to add receivable channels that are not preset in the TV memory. (see "Presetting the Channels Automatically" on page 16)

No color

- Adjust the COR in the IMAGEM menu. (see "COR" on page 23)
- Black and white programs cannot be seen in color.

- Set the appropriate TV system in the AJUSTES menu. Normally, set it to "AUTO." (see "SISTEMA DE COR" on page 27)

Only snow and noise appear on the screen

- Check the TV A CABO setting in the AJUSTES menu. (see "SELEÇÃO DE CANAL" on page 26)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- Press ANT to change the input mode. (see "ANT" on page 19)
- Set the appropriate TV system in the AJUSTES menu. Normally, set it to "AUTO." (see "SISTEMA DE COR" on page 27)

Dotted lines or stripes

- Adjust the antenna.
- Move the TV away from noise sources such as cars, neon signs, or hair-dryers.

TV is fixed to one channel

- Use AUTO PROGRAMAÇÃO to add receivable channels that are not preset in the TV memory. (see "Presetting the Channels Automatically" on page 16)

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.

Cannot receive any channels when using cable TV

- Make sure TV A CABO is ON in the AJUSTES menu. (see “SELEÇÃO DE CANAL” on page 26)
- Use AUTO PROGRAMAÇÃO to add receivable channels that are not preset in the TV memory. (see “Presetting the Channels Automatically” on page 16)

Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the TV's volume.

CANAL FAVORITO does not display your choices

- Verify that MODO is set to MANUAL in the CANAL FAVORITO menu. (see “Setting and Selecting CANAL FAVORITO” on page 29)

Recording through MONITOR OUT does not function properly when recording in PIP mode

- MONITOR OUT will not record both images in PIP. Only the main picture will be recorded.
- If you are recording the main picture and you

switch to the sound of the sub picture using the AUDIO button, the main picture will be recorded with sound from the other program.

TV cannot receive stereo broadcast signal

- Set MTS to ESTÉREO in the SOM menu. (see “OPÇÕES” on page 25)

TV turned off automatically

- The Auto Switch Off function was activated. The message “TV deligavá em breve” will appear 9 minutes after your TV does not receive any signal. After 10 minutes, your TV will turn off automatically.



Specifications

KV-29VX2

Power requirements	110-240 V, 50/60 Hz
Number of inputs/outputs	
Video ¹⁾	3
S Video ²⁾	1
Audio ³⁾	3
Audio out ⁴⁾	1
Monitor out ¹⁾	1
Speaker output (W)	15W x 2
Power consumption (W)	
In use (Max.)	000W
In standby	1W
Dimensions (W/H/D) (mm)	750 x 583 x 546 mm
Mass (kg)	000 kg

- ¹⁾ 1 Vp-p, 75 ohms unbalanced, sync negative
- ²⁾ Y: 1 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
- ³⁾ 500 mVrms (100% modulation), Impedance: 47 kilohms
- ⁴⁾ More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix)
Impedance: 50 kilohms

Television system

PAL M, NTSC

Channel coverage

VHF: 2-13/UHF: 14 -69/CATV: 1 - 125

Picture tube

Hi Black Trinitron® tube

Antenna

75 ohm external terminal for VHF/UHF

Visible Screen size

29-inch picture measured diagonally

Actual Screen size

27-inch picture measured diagonally

Supplied accessories

Remote control RM-Y136B (1)

Batteries (2) size AA (R6)

Antenna connector (1)

Optional accessories

Connecting cables



RK-74A, RKG-69HG, VMC-10HG,

VMC-720M, VMC-810S/820S, YC-15V/30V


TV Stand SU-000

VHF/UHF mixer 000



Design and specifications are subject to change without notice.

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Termo de Garantia

GARANTIA POR 12 MESES

N.º de série.....

3009176

I-CONTEÚDO E PRAZO DE GARANTIA

1. A SONY COMÉRCIO E INDÚSTRIA LTDA. garante o produto acima identificado através do seu número de série, produto este que foi recebido devidamente lacrado, pelo prazo de **12 (doze) meses**, contados a partir da aquisição pelo primeiro consumidor, contra defeitos de projeto, fabricação, montagem, ou solidariamente em decorrência de vícios de qualidade do material, que o torne impróprio ou inadequado ao consumo a que se destina.
2. A garantia se faz mediante a exibição deste termo, bem como da Nota Fiscal correspondente.

II-EXCLUDENTES DA GARANTIA

1. O presente Termo exclui despesas de transporte, frete, seguro, constituídos tais itens, ônus e responsabilidade do consumidor, além de não cobrir:
 - a) danos à parte externa do produto (gabinete, painel, acabamentos, botões etc.), bem como peças e acessórios sujeitos a quebra causada por maus tratos;

- b) manuseio inadequado, indevido aos fins a que se destina, em desacordo com as recomendações do manual de instruções.

III-INVALIDADE DA GARANTIA

1. A Garantia fica automaticamente invalidada, se:
 - a) não for apresentada a Nota Fiscal de venda no Brasil, ou documento fiscal equivalente, conjuntamente com o Termo preenchido;
 - b) o produto for ligado em rede elétrica fora dos padrões especificados ou sujeita a flutuação excessiva de voltagem;
 - c) o produto tiver seu lacre violado, for aberto para conserto, manuseado ou tiver o circuito original alterado por técnico não autorizado ou não credenciado;
 - d) o número de série do produto for removido ou alterado;
 - e) o produto for utilizado em ambientes sujeitos a gases corrosivos, umidade excessiva ou em locais com altas/baixas temperaturas, poeira, acidez etc;
 - f) o produto sofrer qualquer dano por acidente (quebra), ou agente da natureza (raio, enchente etc.);
 - g) o produto for manuseado ou usado em desacordo com o manual de instruções que o acompanha.

IV-FORMA E LOCAL DE UTILIZAÇÃO DA GARANTIA

1. Para usufruir desta garantia adicional à legal, o consumidor deverá utilizar-se de um dos Postos de Serviço Autorizado Sony, dentre aqueles que constam na relação que acompanha o produto.
2. Esta garantia é válida apenas em território brasileiro.
3. O transporte do produto ao Posto de Serviço Autorizado é de responsabilidade do consumidor.

ATENÇÃO

Este termo de garantia só tem validade quando acompanhado da nota fiscal correspondente.

— Conserve-os em seu poder. —

SONY®

**PRODUZIDO
NA ZONA FRANCA
DE MANAUS**



CONHEÇA A AMAZÔNIA

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