

SONY®

3-862-569-21

Trinitron® Color TV

Operating Instructions


KV-32V68
KV-35V68




© 1999 by Sony Corporation

WARNING

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



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



ATTENTION
RISQUE DE CHOC ELECTRIQUE.
NE PAS OUVRIR

PRECAUCION
RIESGO DE CHOQUE ELECTRICO
NO ABRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

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 program 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 result of misuse.

Note on Caption Vision

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

Note on cleaning the TV

Clean the TV with a soft dry cloth. Never use strong solvents such as thinner or benzene, which might damage the finish of the cabinet.

Note to CATV system 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.

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

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the

instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

This document is for the remote control RM-Y154.
MODELS: KV-32V68, 35V68

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The VCR Plus+ and GUIDE Plus+ systems are manufactured under license from Gemstar Development Corporation and VCR Index Systems B.V., respectively.

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VCR required for recording

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

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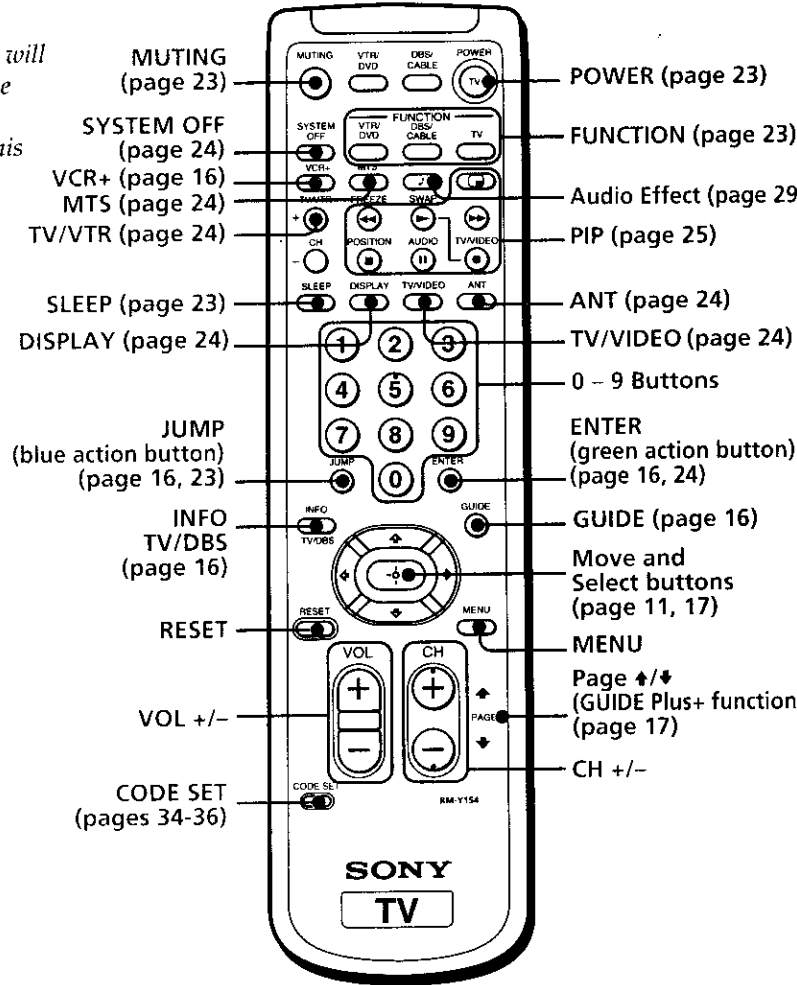
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Remote Control

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

- Clear Press to select the component you want to control
- Green Buttons relevant to power operations, like turning the component on or off

Label color

- Purple The GUIDE Plus+ operation buttons
- 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
- Green S-Link operation buttons

For a detailed explanation of most buttons, see "Watching the TV" on page 23.

Welcome!

Thank you for purchasing the Sony Trinitron® Color TV. Before reading this manual, check the model number located on the front of this manual or on the rear of your TV.

The menus shown in this manual are for model KV-35V68. Your menus may differ from the ones illustrated.

The features you will enjoy include:

- The GUIDE Plus+ interactive program guide system, which allows you to access program information in an on-screen program guide, sort programs by category, and to quickly schedule programs for viewing or recording. This service is yours with no monthly fee.
- Dual tuner PIP, which allows you to watch two programs at once without having to connect any additional equipment
- SRS, which allows you to listen to stereo programs in dynamic three-dimensional sound
- The FAVORITE CHANNEL feature, which allows you to preview each of your chosen favorite channels in a small window picture before you choose to tune to a particular station
- A front A/V input, for easy connection of your camcorder or game equipment
- An S Video input, for enhanced picture quality

Precautions

Safety

- Operate the TV only with 120 V AC .
- The plug is designed, for safety purposes, to fit in the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified personnel before operating it further.
- If you will not be using the TV for several days, disconnect power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS".

Note

- After you plug the TV back in, you must wait 24 hours before information will be available in the Program Guide.

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.

Using This Manual

This manual is divided into five major sections. We recommend that you review the contents of each section in the order presented.

1 Connecting and Installing the TV

This section guides you through your initial set up.

2 Basic Set Up

This section teaches you the basic skills needed to operate your new TV. It shows you how to operate special functions of the remote control and the GUIDE Plus+ feature.

3 Using your New TV

This section shows you how to use the Easy Set Up Guide feature, and how to use your remote control.

4 Using your Menus

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

5 Troubleshooting

This section helps you to correct problems you may encounter with your TV.

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

Connecting and Installing the TV

Making Connections

Refer to the table below, it will direct you to the diagram suitable to the components you will be connecting.

If you will be connecting	See page
Cable or antenna only	3
Cable and antenna	3
Cable box	4
Cable box and cable to view scrambled channels	4
VCR and cable or antenna	5
VCR and cable box	5
Direct Broadcast Satellite Receiver (DBS)	6
VCR and Direct Broadcast Satellite Receiver (DBS)	6
Digital Versatile Disc player (DVD)	7
Audio system	7
A/V receiver	8
Two VCR's for editing	8
Camcorder to view tapes	9
IR Blaster Cable* (G-Link)	9
S-Link connections	10

* IMPORTANT

- You must connect the IR Blaster in order to operate your VCR and/or cable box with the GUIDE Plus+ feature.

Note

- When using the IR Blaster and a cable box, the cable box must always be left ON to allow GUIDE Plus+ to receive information about upcoming television programs.

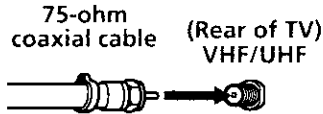
Cable or Antenna Connections

Connecting directly to cable or an antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).

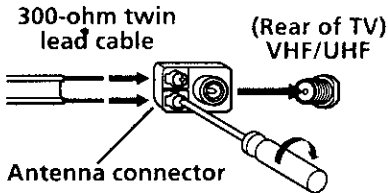
A

- VHF only
or
VHF/UHF
or
Cable



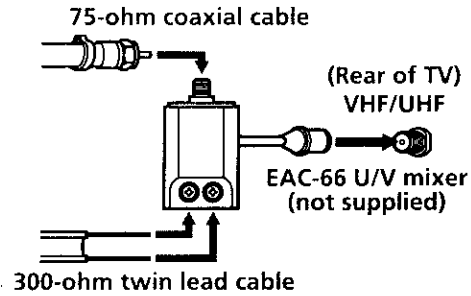
B

- VHF only
or
UHF only
or
VHF/UHF



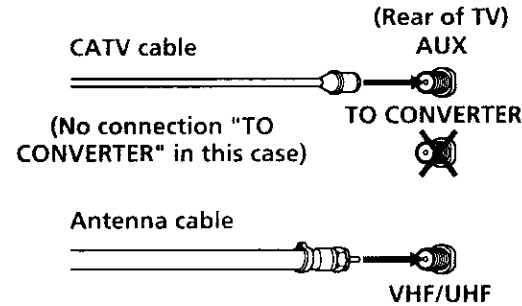
C

- VHF
- and
- UHF



Cable and antenna

If your cable provider does not feature local channels, you may find this set up convenient for viewing both local and cable channels. Select cable or antenna mode by pressing ANT on the remote control. You will be able to alternate between the two input sources.



Notes

- In order to receive channels with an antenna, you will need to turn your CABLE to OFF (see page 31) and perform the AUTO PROGRAM function.
- The GUIDE feature will not function for items connected to the AUX input.

Connecting and Installing the TV (continued)

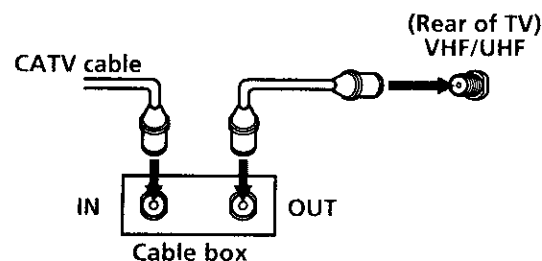
Cable Box Connections

You must connect the IR Blaster in order to operate your cable box with the GUIDE Plus+ feature. (see "Connecting the IR Blaster" on page 9)

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

Cable box

- 1 Connect the coaxial connector from your cable to the IN on your cable box.
- 2 Using a coaxial cable, connect OUT on your cable box to VHF/UHF on your TV.



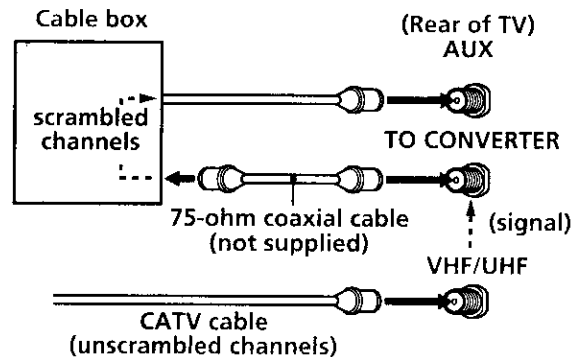
Cable box and cable

For this set up, you can switch between scrambled channels (through your cable box*), and normal (CATV) channels by pressing ANT on your remote control.

Notes

- The GUIDE feature will not function for items connected to the AUX input.
- When using PIP, you cannot view the AUX input (scrambled channels) in the window picture.
- If you are using a cable box with the GUIDE Plus+ feature, when viewing PIP the same picture will be displayed in the main and window picture. (see page 25)
- * When using the IR Blaster and a cable box, the cable box must be left ON at all times to allow the GUIDE Plus+ feature to receive information about upcoming television programs.

If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input, you should consider using the CHANNEL FIX feature discussed on page 31.



VCR Connections

You must connect the IR Blaster in order to operate your cable box with the GUIDE Plus+ feature.

Connecting an antenna/cable TV system with a VCR

- 1 Attach your cable or antenna to IN on your VCR.
- 2 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.*
- 3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.

* If you are connecting a monaural VCR, connect only the single white audio output to the left input on your TV.

Connecting a VCR and TV with a cable box

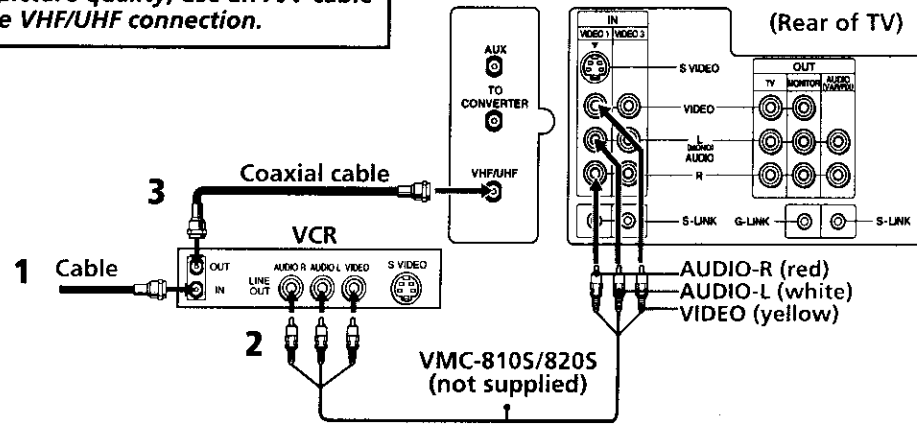
- 1 Attach your cable to IN on your cable box.**
- 2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
- 3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.
- 4 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

** When using the IR Blaster and a cable box, the cable box must be left ON at all times to allow the GUIDE Plus+ feature to receive information about upcoming television programs.

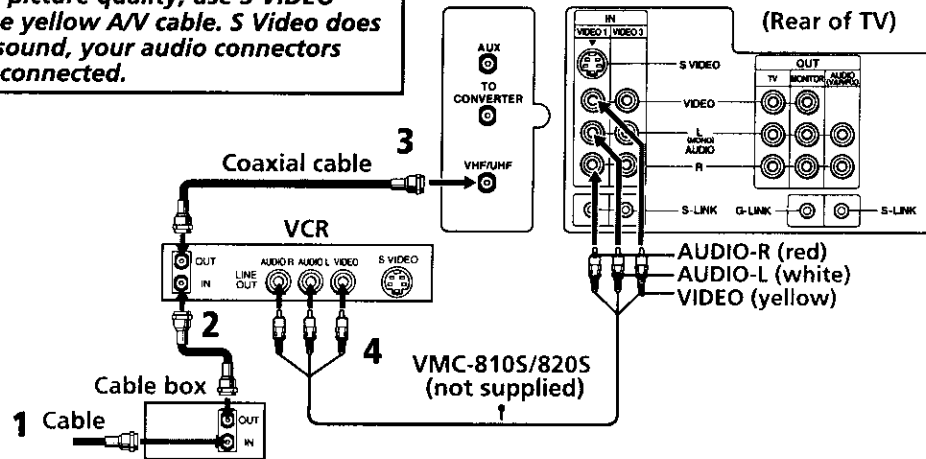
Note

- To record programs using VCR Plus+, your VCR must be set to channel 3 or 4, preferably the channel which does not receive a broadcast channel in your area.

For superior picture quality, use an A/V cable instead of the VHF/UHF connection.



For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



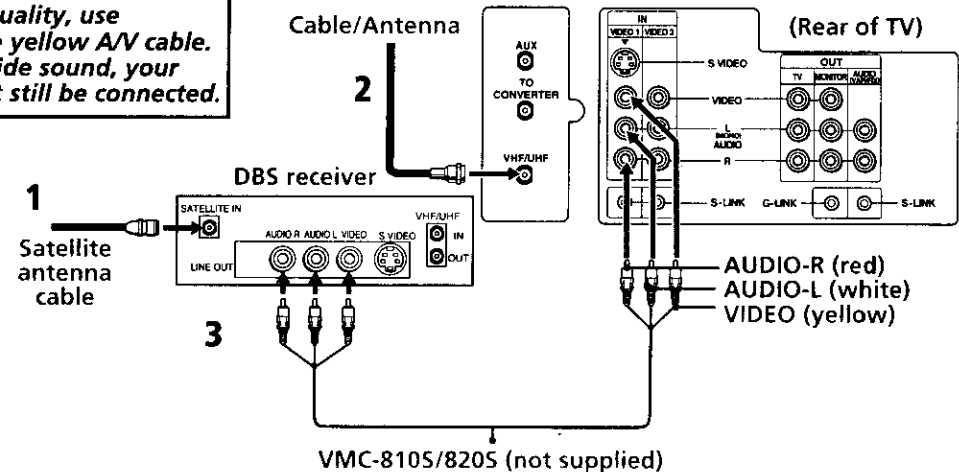
Connecting and Installing the TV (continued)

DBS Connections

Connecting a DBS (Direct Broadcast Satellite) receiver

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

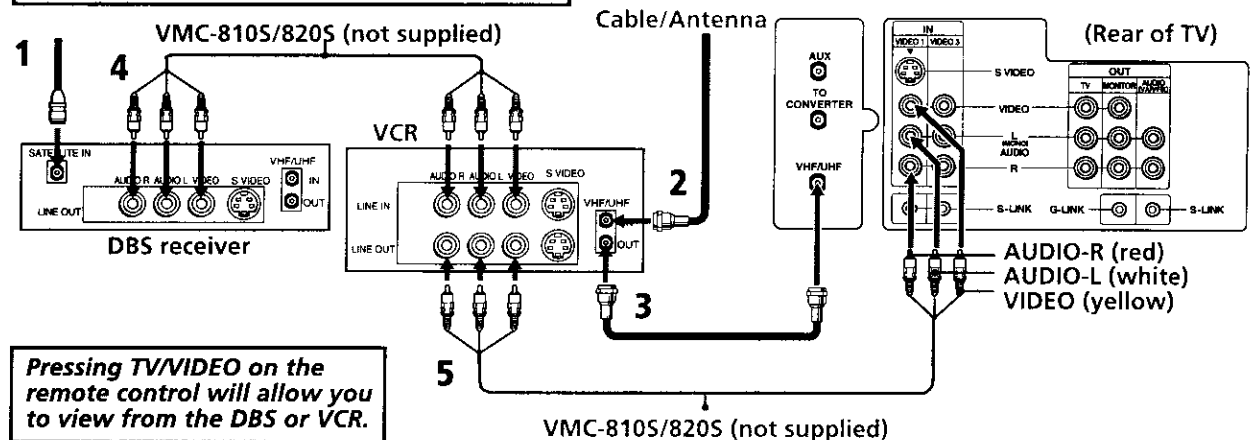
For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



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

- 1 Connect the cable from your satellite antenna to SATELLITE IN on your DBS receiver.
- 2 Connect 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 A/V connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your VCR.
- 5 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

For superior picture quality, use an A/V cable instead of the VHF/UHF connection.



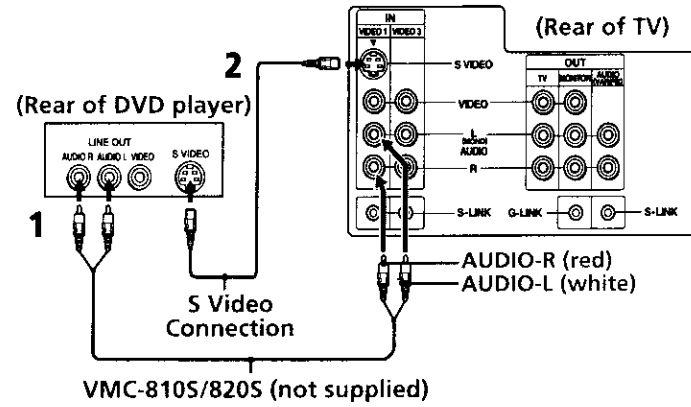
Pressing TV/VIDEO on the remote control will allow you to view from the DBS or VCR.

Additional Connections

The following connections are for accessories that will enhance your viewing options.

Connecting a DVD Player

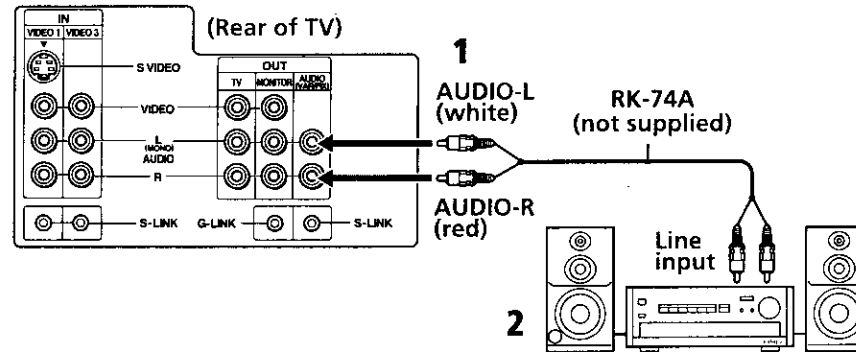
- 1 Using audio connectors, connect AUDIO-R and AUDIO-L OUT from LINE OUT on your DVD to AUDIO-R and AUDIO-L IN from VIDEO IN on your TV.
- 2 Connect S-Video from your DVD player to your TV.



Connecting an audio system

For enhanced sound, connect your audio system to your TV.

- 1 Using AUDIO connectors, connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE 2) on your stereo.
- 2 Set your stereo to the chosen line input. Refer to page 29 of this manual for additional audio setup instructions.



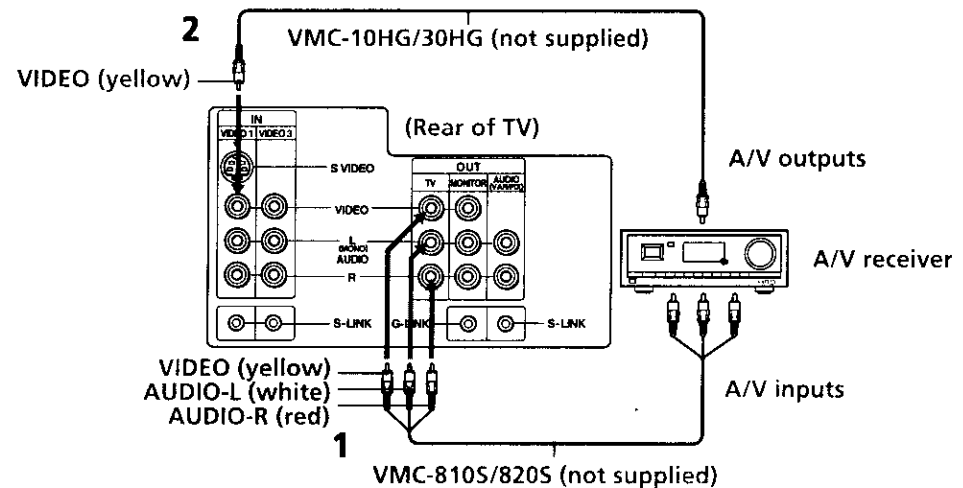
Connecting and Installing the TV (continued)

Connecting an A/V receiver

- 1 Using A/V cables, connect TV OUT on your TV to TV IN on your A/V receiver.
- 2 Using a single video connector, connect MONITOR OUT on your A/V receiver to VIDEO 1 IN on your TV.

Note

- When you are in a video mode (VIDEO 1, 2, or 3), you will not be able to access the GUIDE Plus+ feature.

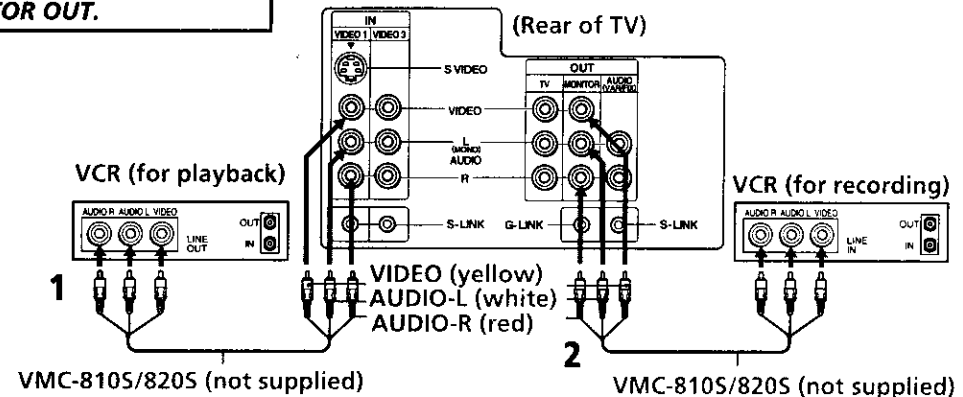


Connecting two VCRs for editing

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 setup instructions on page 5 of this manual.
- 2 Using A/V connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.

You should not change video inputs while editing using MONITOR OUT.



Connecting a camcorder

This connection is convenient for viewing a picture directly from your camcorder.

Using A/V connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on your TV.

Connection can also be made directly to your A/V input located on the rear of your TV.

Note

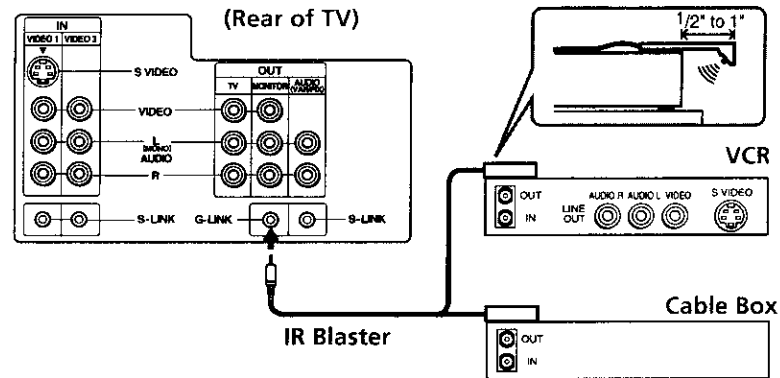
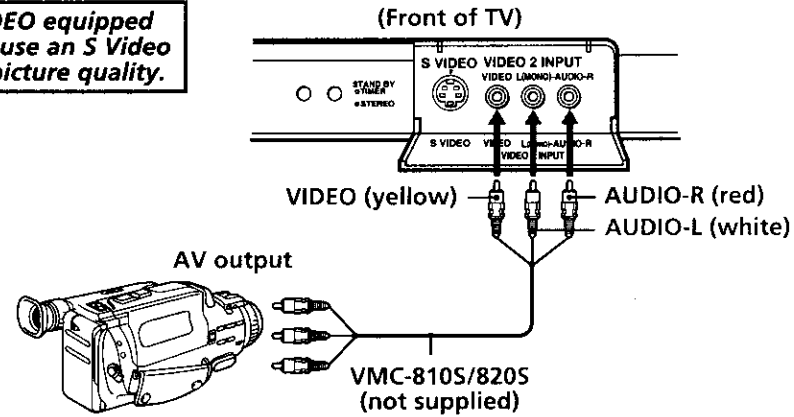
- If you are connecting a monaural camcorder, connect only the single white audio output to the left input on your TV.

Connecting the IR Blaster (G-Link)

You must connect your IR Blaster to automatically control your VCR and/or cable box with the GUIDE Plus+ feature.

- 1 Connect the IR Blaster to the TV's G-Link jack.
- 2 Place the IR Blaster on top of (or below) and overhanging the front of the VCR and/or cable box, about 1/2" to 1". For best results, place the IR Blaster directly above (or below) the VCR's and/or cable box's IR receiving area.
- 3 Set the manufacturer and code type of your VCR/cable box, using the GUIDE PLUS+ SET UP menu (see page 31). This code must be set for the GUIDE Plus+ feature to function properly.

If you have an S VIDEO equipped camcorder, you can use an S Video cable for optimum picture quality.



Connecting and Installing the TV (continued)

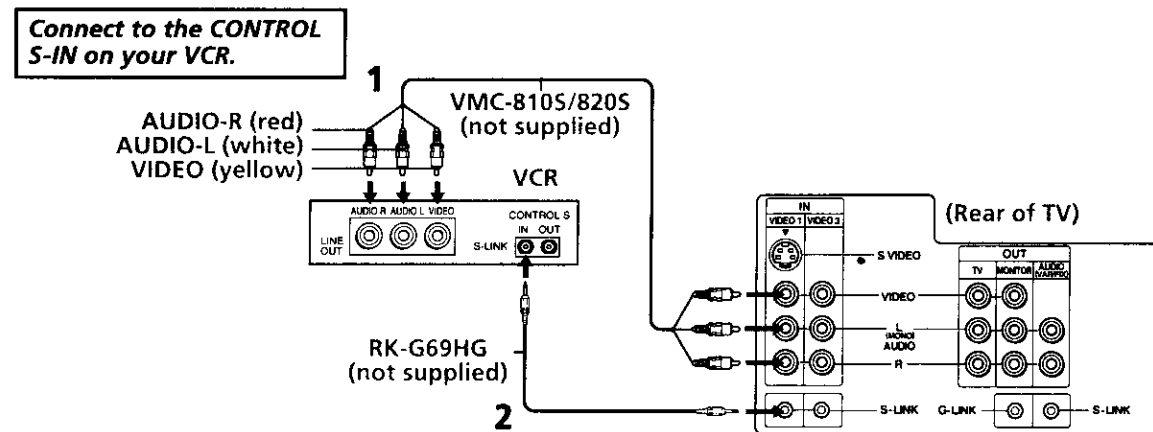
S-Link connections

S-Link is designed to allow your Sony components to "communicate."

Connecting S-Link to a VCR

S-Link will automatically power on the TV and switch to the correct video input when a tape is inserted in the VCR.

- 1 Using A/V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.
- 2 Using an S-Link connector (mini plug), connect S-LINK/CONTROL S-IN on your VCR to S-LINK on your TV.



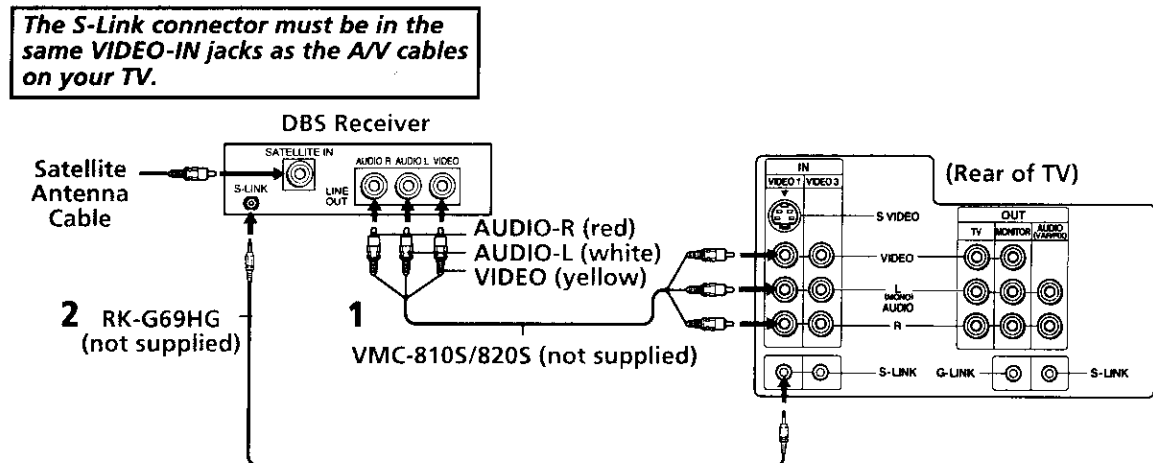
Connecting S-Link to a DBS

S-Link will automatically power on the TV and switch to the correct video input when you power on the DBS.

- 1 Using A/V connectors, connect AUDIO and VIDEO OUT on your DBS to AUDIO and VIDEO IN on your TV.
- 2 Using an S-Link connector (mini plug), connect S-LINK on your DBS to S-LINK on your TV.

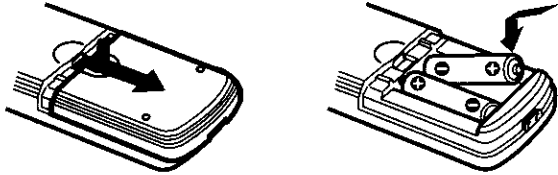
Note

- Do not connect S-Link to the G-Link jack on your TV.



Inserting batteries

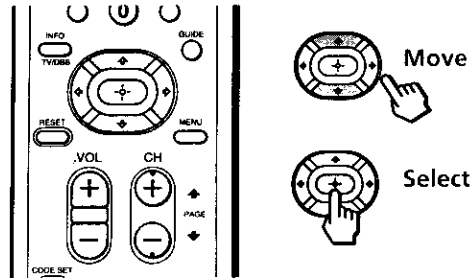
Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the battery compartment.



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 page 34)

Using the remote control move & select buttons



The supplied remote control has "arrow" buttons (↑, ↓, ←, →) which allow for movement of the on-screen selector. Pressing on the outer buttons will cause the selector to *move* in the corresponding direction. Pressing the center button (⊕) will *select* the item.

Adjustment bars

When menu items present an adjustment bar (▬▬▬▬▬▬ or ▬▬▬▬▬▬▬▬▬▬▬▬), use the arrow buttons to change the setting.

On-screen help/instructions

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

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

Using Your New TV

Setting up the TV automatically

The Easy Setup Guide allows you to set the on-screen language and set all receivable channels in one step.

To set up the TV manually, refer to "Using the SET UP menu" on page 31.

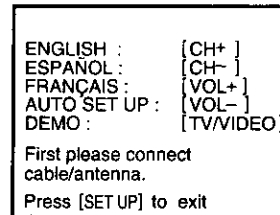
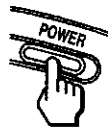
Tips

- 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.
- The TV must be set to the TV input to execute AUTO PROGRAM. Press TV/VIDEO until a channel number appears.
- If your cable or antenna is connected to AUX, press ANT until AUX appears next to the channel number.

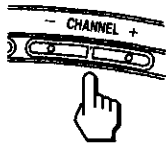
Using the buttons on the top of the TV:



- 1 Press POWER to turn on the TV.
The Easy Setup Guide screen appears.

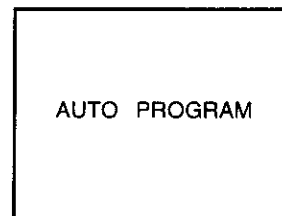
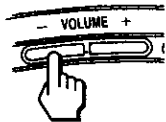


- 2 Make your language selection by pressing CH +, CH - or VOL +.



- 3 Press VOLUME - to continue or TV/VIDEO for a DEMO of functions and menus.

A message will appear, asking if you want to continue to AUTO PROGRAM. Press CH+ to continue.



AUTO PROGRAM appears and the TV starts scanning and presetting channels automatically. If the TV receives cable TV channels, CABLE is set ON automatically.

To perform AUTO SET UP again

Press the SET UP button on the TV and follow steps 2-3.

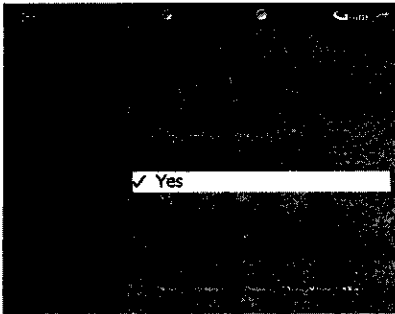
Notes

- To reset your TV to factory settings, turn the TV on. Then, while pressing the RESET button on your remote control, press the POWER key on your TV. The TV will turn itself off, then back on.
- When you perform AUTO PROGRAM, your CHANNEL FIX, CHANNEL BLOCK, and ON/OFF TIMER settings, as well as your GUIDE Plus+ settings and program information will be erased.

Setting up the GUIDE Plus+™ feature

After you have set up your TV using the Easy Setup Guide, you will be prompted to set up your GUIDE Plus+ feature.

Several questions will appear on your screen. You will be asked to enter specific information, such as your location, zip or postal code, whether you will be connecting cable, a cable box, or a VCR, etc.



To answer each question, highlight the appropriate answer, and press the **OK** button on the remote control. In some instances, like when you are asked to enter your zip or postal code, you will need to enter numerical information using the **▲/▼** buttons on the remote control.

After you have completed your GUIDE Plus+ set up, you can choose to view a Demo of the GUIDE Plus+ features. If you wish to view this Demo again, after you have exited from GUIDE Plus+ set up, you can re-enter GUIDE Plus+ set up through the TV's SET UP menu. (see GUIDE PLUS+ SET UP on page 31)

If you choose to set AUTO GUIDE to ON, the program guide will appear each time you turn the TV on using your remote control.



Within 24 hours of your initial set up of the GUIDE Plus+ feature, you will be able to view program guides on your TV.

If you make a mistake during your set up, or you would like to connect new components to your TV, you can reenter the GUIDE Plus+ SET UP menu. (see "GUIDE PLUS+ SET UP" on page 31)


Notes

- PIP must be OFF to allow the GUIDE Plus+ feature to receive program information.
- If you have connected a cable box to your TV, the TV must be turned off, and the cable box left on, in order to receive program information.
- If there is more than one cable company in your area, you will be asked to choose a "Channel Map" which matches yours (i.e., Fox =6, NBC = 7, etc).
- The GUIDE Plus+ feature menus are only available in English.
- The GUIDE Plus+ feature may not be available in all areas. If the GUIDE Plus+ feature is not available in your area, please contact the Sony Direct Response Center at the number listed on page 38 of this instruction manual.

Using Your New TV (continued)

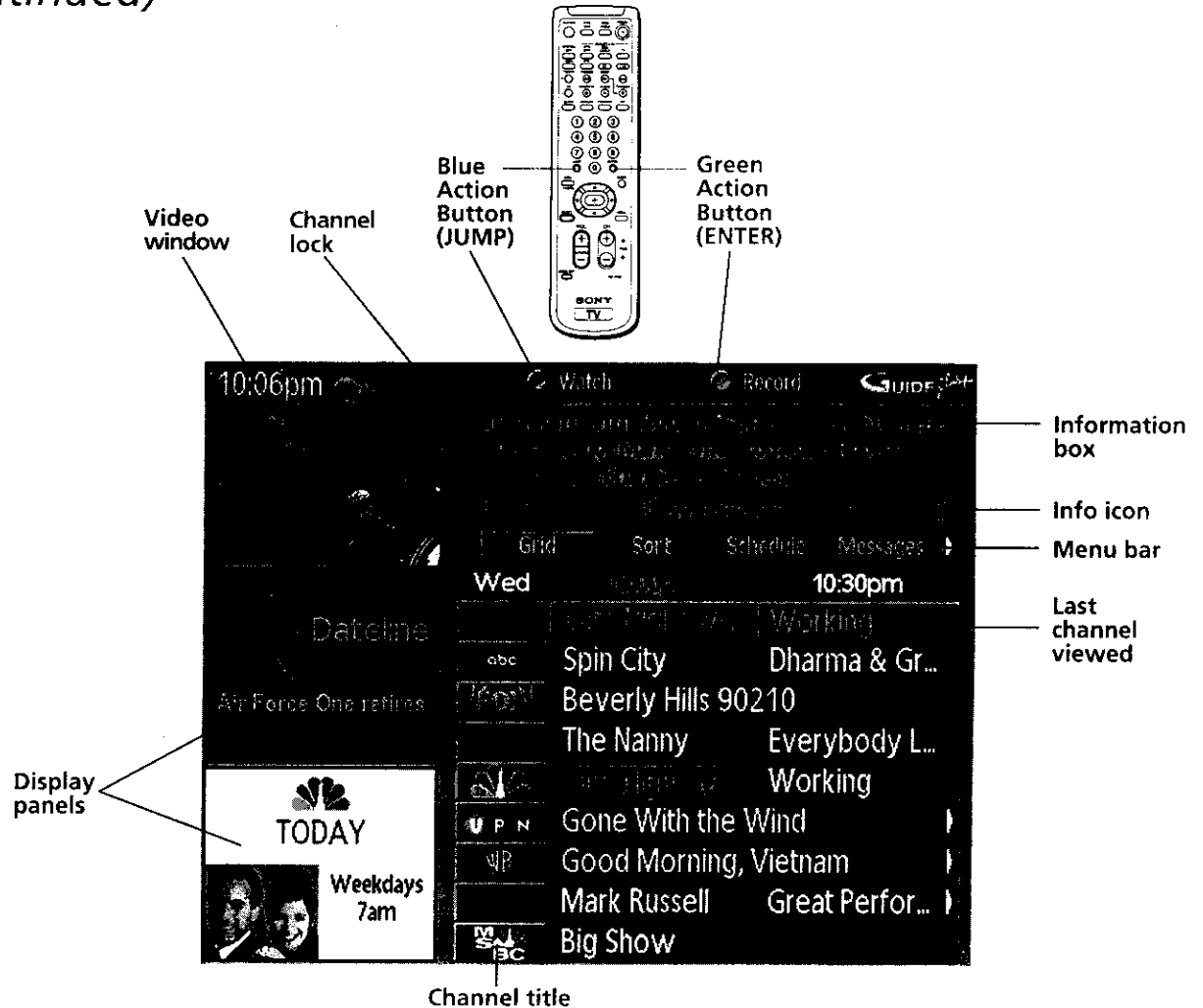
Using the GUIDE Plus+ Feature

The GUIDE Plus+ feature allows you to see local TV programming, set your VCR to record programs, sort programs by category, set your TV to turn on and tune to a program, and receive information about program content. All this can be done while viewing your current channel in a video window.
















Press  to view the first screen, the Program Grid.

Notes

- When you press MENU, the highlight jumps to the menu bar.
- The GUIDE Plus+ feature will not function when your video source is from video equipment or from the AUX input.
- Press the ANT button to return to the VHF/UHF input before accessing the GUIDE Plus+ feature.



Using the GUIDE Plus+ Feature

Video Window	The video window allows you to view a program while in the Program Grid. Pressing the  button while using the GUIDE Plus+ feature will lock/unlock the video window, so the picture will remain the same as you move through the Program Grid.
Channel Lock 	This symbol indicates whether Channel Lock is on or off. Pressing the  button while using the GUIDE Plus+ feature will lock/unlock the video window, so the picture will remain the same as you move through the Program Grid.
Blue Action Button 	This symbol and corresponding text indicates what will happen when you press the Blue Action Button  on your remote control.
Green Action Button 	This symbol and corresponding text indicates what will happen when you press the Green Action Button  on your remote control.
Information Box	Provides information regarding each program which is highlighted as you scroll through the Program Grid.
Info Icon 	Icon appears if additional information about a program being described in the Information box is available. When the Info icon appears, press the  button on the remote control to access additional information.
Menu Bar	Offers several options for setting up and using the GUIDE Plus+ feature. Menu items include GRID (see page 20), SORT (see page 21), SCHEDULE (see page 21), MESSAGES (see page 22), EDITOR (see page 22), and SETUP (see page 22).
Last Channel Viewed	While in the grid, the last channel viewed will remain highlighted in gray.
Display Panels	Display panels show information about future programming. After highlighting a display panel, you will be able to access expanded program information  for the program advertised, when this information is available. After you have highlighted a display panel, you can press  to schedule the program for viewing, or  to schedule the program for recording.
Channel Ads	Sometimes, a channel ad will be displayed within the Program Grid. After highlighting a channel ad, you will be able to access expanded information  for the program or channel advertised, when this information is available. After you have highlighted a display panel, you can press  to schedule the program for viewing, or  to schedule the program for recording.

Using Your New TV (continued)

Using the GUIDE Plus+ Buttons











The GUIDE Plus+ feature offers on-screen program information. Use the chart and illustration on this page to learn how to access and use the GUIDE Plus+ feature with your remote control.



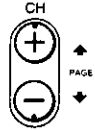

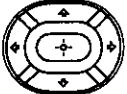
Note

- You must connect your IR Blaster in order to operate your VCR and/or cable box. This will allow the GUIDE Plus+ feature to tune to and record programs.

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

Use the Purple Labeled Buttons for the GUIDE Plus+ Feature Operations	
	<p>Pressing the VCR+ button allows you to program your VCR to record TV programs using the VCR Plus+ code system. You can find the PlusCode programming number codes in your newspaper's Program Guide.</p> <p>You must have a VCR and an IR Blaster properly connected and set up in order to record programs using the VCR Plus+ feature. Press VCR+ again to exit the VCR Plus+ screen.</p> <p>Once a program has been scheduled for recording using the VCR Plus+ system, you can review your selection, change the frequency of recording, or cancel the recording within the GUIDE Plus+ SCHEDULE screen. (see "SCHEDULE" on page 21)</p>
	<p>Pressing the  button while using the GUIDE Plus+ feature will lock/unlock the video window, so the picture will remain the same as you move through the Program Grid.</p>
	<p>Press the  button to choose the left (blue) action button (as displayed at the top of the Program Grid).</p>
	<p>Press the  button to choose the right (green) action button (as displayed at the top of the Program Grid).</p>
	<p>Pressing the INFO button will show additional information about a selected program or future programming on the selected channel, if available. An info icon  will appear on the screen to indicate when information is available.</p> <p><i>You must press the INFO button again to return to basic information.</i></p>
	<p>Pressing the GUIDE button will activate the GUIDE Plus+ screen. Pressing again will exit the GUIDE Plus+ screen.</p>

Use the Purple Labeled Buttons for the GUIDE Plus+ Feature Operations

 <p>The image shows two circular buttons stacked vertically. The top button contains a plus sign (+) and is labeled 'CH' above it. The bottom button contains a minus sign (-) and is labeled 'PAGE' to its right. Small arrows point up from the top button and down from the bottom button.</p>	<p>Press to scroll \uparrow/\downarrow, a page at a time, while in the GUIDE Plus+ screen.</p>
 <p>The image shows a small, horizontally-oriented oval button with the word 'MENU' centered above it.</p>	<p>Pressing the MENU button will move you between the grid and the menu bar.</p>
 <p>The image shows a circular directional pad with four arrow keys (up, down, left, right) around a central button that contains a plus sign (+).</p>	<p>Press the arrow keys (\leftarrow, \uparrow, \rightarrow, \downarrow) to scroll in any direction while using GUIDE Plus+ and press the select button \oplus to choose the option.</p>

Using Your New TV (continued)

Learning to view a program using the GUIDE Plus+ feature

Use the GUIDE button to access the Program Grid and use the arrow buttons (▲ or ▼) to select a program. Use the following example, in which we select a program to be viewed to learn how to use the GUIDE Plus+ feature.

- 1 Press the GUIDE button.
The Program Grid appears.



- 2 Press ▼ to highlight the desired program (in this case "Spin City").

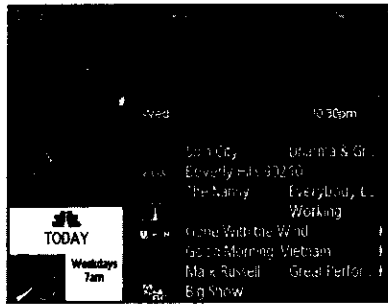


- 3 Press (+) to select the program.

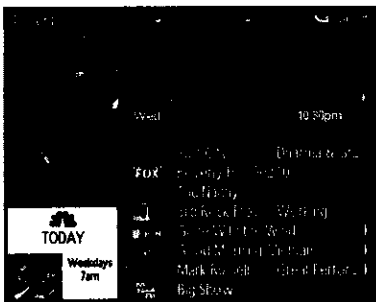


Learning to schedule viewing and recording using the GUIDE Plus+ feature

- 1 Press the GUIDE button.
The Program Grid appears.



- 2 Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ buttons to move to a future program which you would like to schedule for viewing.



- 3 Press the blue action button JUMP to select WATCH.
- 4 Press GUIDE to return to the last channel viewed.

To automatically schedule future viewing:

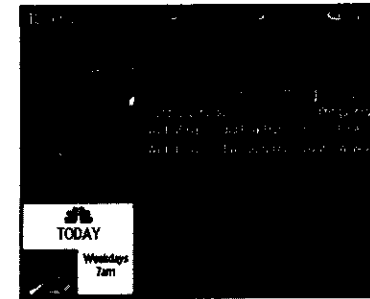
Press the blue action button JUMP once, and the program will automatically be scheduled for viewing at the time indicated within the Program Grid. The color of the highlight within the Program Grid will change to red to indicate that this program has been scheduled for viewing.

To enter the Schedule Menu to set up future viewing:

Press the blue action button JUMP , then the green action button ENTER . Your scheduled viewing option will appear on the screen.

To change the frequency of your scheduled viewing:

In the Schedule Menu, press the green action button ENTER to change your viewing option. As you press the green action button ENTER , you will cycle through the frequency viewing options (once, daily, or weekly).



Note

- You must connect your IR Blaster in order to operate your VCR and/or cable box. This will allow the GUIDE Plus+ feature to tune and record programs.

To schedule recording

Follow the directions provided on this page for scheduling viewing. In step 3, press the green action button ENTER instead of the blue action button JUMP . This will schedule the chosen program for recording. A program scheduled for recording will appear highlighted in orange within the Program Grid.

Note

- The VCR must be set up correctly during GUIDE Plus+ set up in order for scheduled recording to function properly.

To cancel viewing or recording

If you wish to cancel viewing or recording of a program, enter the schedule screen, highlight the program, and press JUMP .

Using Your New TV (continued)

GRID




The main viewing screen

The program title of the last channel viewed is highlighted and basic information for the program is displayed in the information box.




Use the $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ buttons to navigate to different program names, time slots (through midnight of the following day), and channel ads within the grid.

To record a program:



To record a program, you must first connect the IR Blaster. (see "Connecting the IR Blaster" on page 9)

- 1 Highlight the program title and press the blue action button  . 
- 2 To change your scheduled recording, press the green action button  again. Once you enter the schedule screen, you can choose to record the program once, repeatedly (daily, weekly), or to cancel recording.

To schedule to watch a program:

- 1 Highlight the program title and press the blue action button  . 
- 2 To change your scheduled viewing, press the green action button  . Once you enter the schedule screen, you can choose to watch the program once, repeatedly (daily, weekly), or to cancel scheduled viewing.

To jump to a specific channel within the grid, enter the channel number on the remote control's keypad.

To lock/unlock the video window, press the  button. A lock icon  will appear in the video window when the picture is locked.

Unlocked, the video window will display the current program as you scroll through the channel listings.

Locked, the video window will not change as you scroll through the channel listings. If you set the lock while in the grid, the video window will remain locked to the channel you are on. If the lock is already set when you enter the grid, the video window will be locked to the last channel viewed.



Notes

- You must connect the IR Blaster in order to operate your VCR and/or cable box with the GUIDE Plus+ feature.
- When using the IR Blaster and a cable box, the cable box must be left ON at all times to allow GUIDE Plus+ to receive information about upcoming television programs.
- The TIMER light on the front panel of your TV will not light up when programs are scheduled for viewing using the GUIDE Plus+ feature "WATCH" function.
- If you have connected your TV to a cable box, and are recording using the GUIDE Plus+ feature, you will not be able to change channels during recording.

SORT

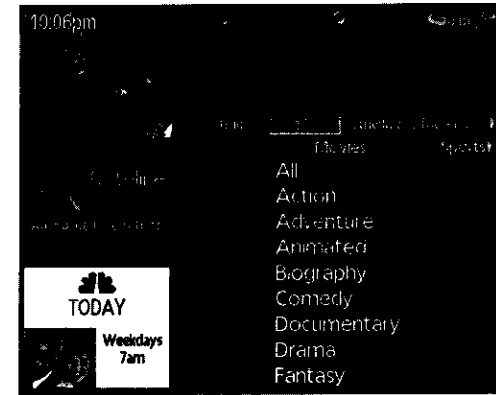
To watch/record movies

SORT allows you to organize, select and schedule programs to watch and record.

While in the Program Guide:

- 1 Press MENU.
- 2 Press \blacktriangleright to highlight SORT and press \oplus . First level SORT appears on the screen, displaying the last category selected (Movies, Sports or Children's).
- 3 Press \blacktriangleright to choose a new category, then press \oplus .
- 4 Press \blacktriangledown to choose a new subcategory, then press \oplus .
- 5 After choosing a subcategory, you will be able to view all programs available in that subcategory over an eight day period. To schedule a program to be watched, press the blue action button JUMP . To schedule a program to be recorded, press the green action button ENTER . If expanded information about a program in the sort screen is available, the **I** will appear in the Information Box. Press INFO to access this information.

The display panels within SORT show information about future programming. After highlighting a display panel, you will be able to access expanded program information **I** for the program advertised, when this information is available. After you have highlighted a display panel, you can press JUMP to schedule the program for viewing, or ENTER to schedule the program for recording.



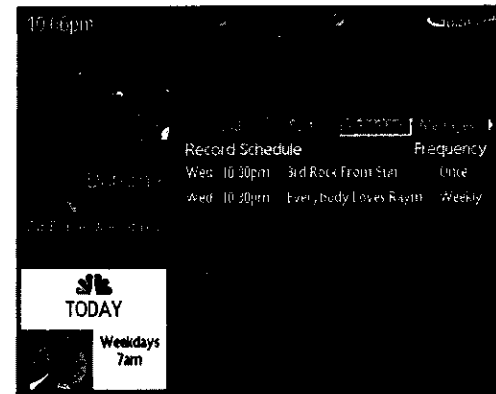
SCHEDULE

To adjust program scheduling

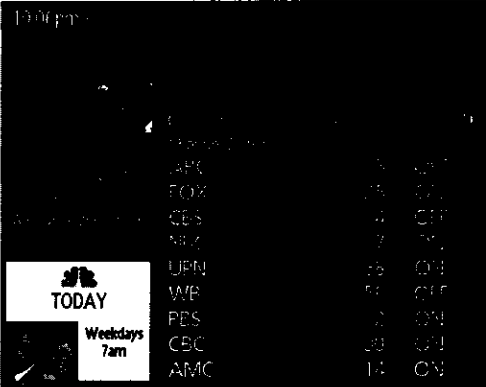
SCHEDULE allows you to adjust viewing/recording times of programs.

While in the Program Grid:

- 1 Press MENU.
- 2 Press \blacktriangleright to get to SCHEDULE and press \oplus .
A list of programs scheduled to be watched and/or recorded appears on the screen.
- 3 To REMOVE a scheduled program, scroll to it and press the blue action button JUMP . To CHANGE a scheduled program, scroll to it and press the green action button ENTER . Programs that have been scheduled for viewing will appear in red within the Program Grid. Programs that have been scheduled for recording will appear in orange within the Program Grid.



Using Your New TV (continued)

<p>MESSAGES <i>To view messages</i></p>	<p>MESSAGES allows you to view system messages. While in the Program Guide:</p> <ol style="list-style-type: none"> 1 Press MENU. 2 Press \blacktriangleright to get to MESSAGES and press \oplus. Messages related to the system will be displayed, if none are available the GUIDE Plus+ ID number will be displayed. If messages remain unread for a prolonged period, they will be automatically deleted.
<p>EDITOR <i>To turn channels ON/OFF in the</i></p>	<p>EDITOR allows you to adjust channel availability within the grid while using the GUIDE Plus+ feature. While in the Program Guide:</p> <ol style="list-style-type: none"> 1 Press MENU. 2 Press \blacktriangleright to get to EDITOR and press \oplus. All channels available are listed. 3 To CANCEL any further changes, press the blue action button JUMP. 4 To turn a channel ON/OFF, scroll to it and press the green action button ENTER. <p>To reassign a channel number, highlight the channel within the EDITOR screen, and enter the new channel number on the remote control's keypad. The order of channels within the Program Grid cannot be changed The GUIDE Plus+ EDITOR functions independently of your TV's CHANNEL SKIP/ADD feature. (see page 31 for information on CHANNEL SKIP/ADD)</p> 
<p>SETUP <i>To use or program the GUIDE Plus+</i></p>	<p>SETUP allows you to start/change the GUIDE Plus+ feature settings and to view a demonstration of its features. While in the Program Guide:</p> <ol style="list-style-type: none"> 1 Press MENU. 2 Press \blacktriangleright to get to SETUP and press \oplus. The setup screen will appear. 3 To change your settings, select SETUP. 4 To view the demonstration, select DEMO.

Watching the TV

The following chart will explain the function of the 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

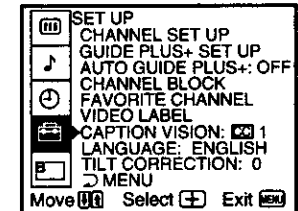
Using the White Labeled Buttons for TV Operations

	<p>Press when you want to turn connected equipment on and off. <i>You can program your remote control to operate other video equipment. (see "Operating Video Equipment" on page 34)</i></p>
	<p>Press when you want to control connected equipment with your remote control. (see pages 34-36 for instructions on programming your remote control)</p>
	<p>Use for direct channel selection. Press 0-9 to select a channel, the channel will change after 2 seconds, or you can press ENTER for immediate selection.</p>
	<p>Press to scan through the channels. <i>Keeping the CH + or - pressed allows you to rapidly scan to the desired channel.</i></p>
	<p>Press to alternate or <i>jump</i> back and forth between two channels. You can jump between the last two channels selected with the 0-9 keys. <i>This button can also be used to activate on-screen options while using the GUIDE Plus+ feature.</i></p>
	<p>Press to mute the sound (MUTING will appear on the screen). Press again or press VOL + to restore sound.</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 turning off automatically. Cancel by pressing until SLEEP OFF appears.</p>

Using Your New TV (continued)

Using the White Labeled Buttons for TV Operations	
 ENTER	<p>Use to activate a channel selected with the 0-9 buttons. Use to activate on-screen options while using the <i>GUIDE Plus+</i> feature.</p>
 MTS	<p>Pressing the MTS button will cycle through the MTS options (STEREO, SAP, MONO). (see the MTS section in "Using the AUDIO  menu" on page 29)</p>
 DISPLAY	<p>Press repeatedly to cycle through the available displays: Status Channel number, current time, channel caption (if set) are displayed. CAPTION VISION Closed captioning will be displayed if the broadcaster offers this service. (see right) To cancel the display, press DISPLAY until DISPLAY OFF appears.</p>
 TV/VIDEO	<p>Press repeatedly to cycle through available video inputs: TV, VIDEO 1, VIDEO 2 and VIDEO 3 When you are in a video mode (VIDEO 1, 2, or 3), you will not be able to access the <i>GUIDE Plus+</i> feature.</p>
 ANT (AUX input)	<p>Press to change the VHF/UHF input to the AUX input. Press to change from VIDEO input to TV input. For detailed connection information, see "Cable and antenna" or "Cable box and cable" on pages 5-6. The <i>GUIDE Plus+</i> feature cannot be accessed in AUX mode.</p>
 TV/VTR +	<p>Press when you are finished using a VCR and you want to switch to the TV input when your remote control is in VCR mode. Your VCR power will remain on.</p>
 SYSTEM OFF	<p>The SYSTEM OFF button allows you to power off all Sony equipment at once.</p>

CAPTION VISION (Closed Caption)



CAPTION VISION can be used for programs that are broadcast with closed captioning.

CC1, 2, 3 or 4

Shows you a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs)

TEXT1, 2, 3 or 4

Shows you network/station information presented using either half or the whole screen.

XDS (Extended Data Service)

Shows a network name, program name, program length, and time of the show if the broadcaster offers this service.

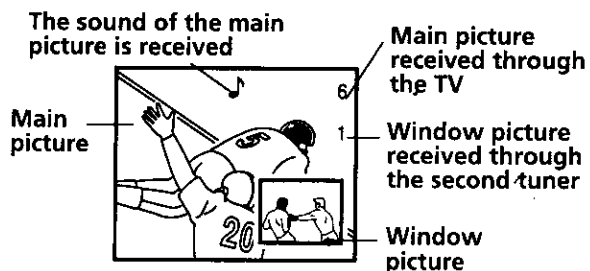
Note

- Poor reception of TV programs can cause errors in CAPTION VISION and XDS. Captions may appear with a white box or other errors instead of intended text.

Watching two programs at one time - PIP

These models are equipped with dual tuners. This means that PIP is "ready to use".

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



Notes

- You must press TV (FUNCTION) before you can control PIP with the yellow labeled buttons.
- The AUX input cannot be viewed in the window picture.
- If you have connected a cable box and activated the GUIDE Plus+ feature, the same picture will appear in both the main picture and window picture.

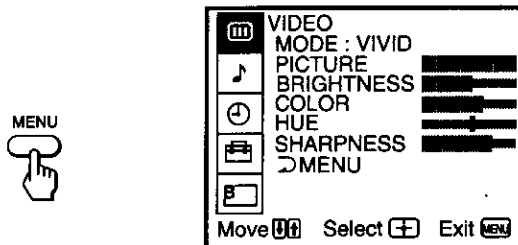
Use the Yellow Labeled Buttons for PIP Operations	
	Press once to display the window picture (1/9 size). Press again to reduce the size of the window picture (1/16 size). Press a third time to remove the window picture.
	Press repeatedly to cycle through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3
	Press to alternate sound between the main picture and the window picture. A ♪ will appear for a few seconds to indicate which picture is receiving sound.
	Press to change the TV channel in the window picture.
	Press to move the location of the window picture (counterclockwise) around the main picture.
	Press to freeze the window picture. Great for copying down phone numbers, addresses, recipes, etc. <i>Press FREEZE again to restore the picture.</i>
	Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be <i>swapped</i> .

Using Your Menus

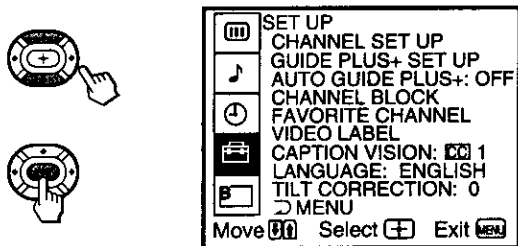
Learning menu selection

Use the MENU button to access a menu and use the arrow buttons (▲ or ▼) to alter settings. Use the following example, in which we activate the CABLE, to learn how to modify settings.

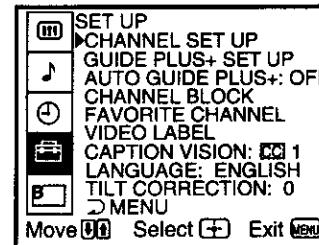
- 1 Press the MENU button.
The main menu appears.



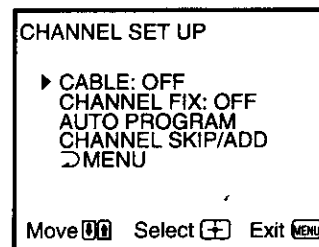
- 2 Press ▲ or ▼ to highlight the desired menu (in this case SET UP) and press (+) to select it.



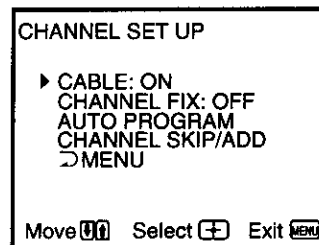
- 3 Press ▲ or ▼ to move to the desired option.



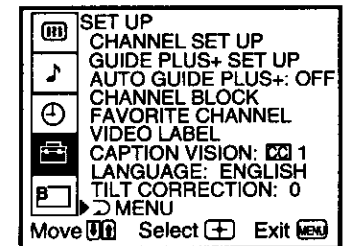
- 4 Press (+).
Options for your selection will be highlighted.



- 5 Press ▲ or ▼ to make your selection and press (+).



When you are finished making changes to the selected menu, choose >MENU to return to the main menu.



Note

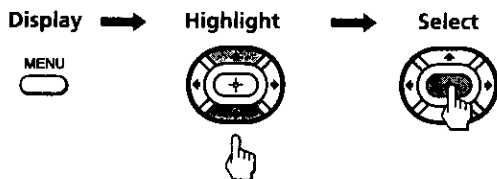
- Pressing MENU on the remote control will allow you to exit from the menus at any time.

Quick start to the menus

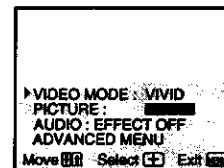
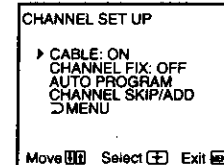
The following will give you a quick start to the options available for setting up your TV.

For detailed information on using the remote control to modify menu settings, refer to "Learning menu selection" on page 25.

To select a menu:

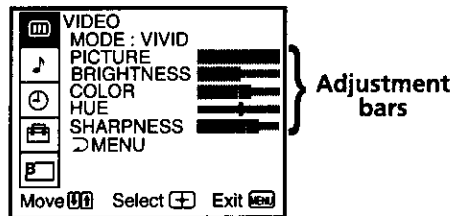


	<p>The VIDEO menu allows you to make adjustments to your picture settings. It will allow you to customize the picture MODE based on the type of program you are viewing.</p>
	<p>The AUDIO menu offers enhanced audio options such as listening to second audio programming (SAP), or customizing the EFFECT of the sound on your TV.</p>
	<p>The TIMER menu sets the clock on your TV and allows you to program your TV for scheduled viewing using the ON/OFF TIMER.</p>
	<p>The SET UP menu provides several options for setting up your channels, labeling your TV/VIDEO inputs, and selecting the LANGUAGE of your menus.</p> <p>The CHANNEL SET UP menu is a sub-menu which provides further options for setting up your TV.</p>
	<p>The Basic Menu provides quick access to frequently used settings.</p>



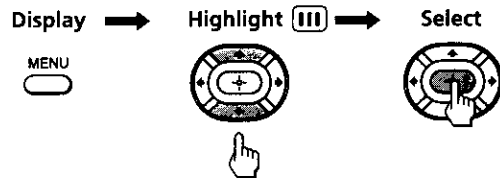
Using Your Menus (continued)

Using the VIDEO menu



For detailed information on using the remote control to modify menu settings, refer to "Learning menu selection" on page 26.

To select the VIDEO menu:

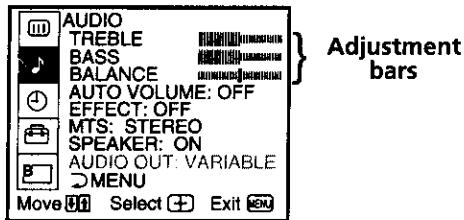


To restore the factory VIDEO settings

Press RESET while the VIDEO menu is displayed.

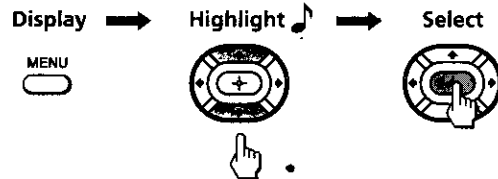
MODE <i>Customized picture viewing</i>	VIVID: Select for a vivid, bright picture for daytime viewing. STANDARD: Select to receive a standard picture. MOVIE: Select for night time movie viewing.
PICTURE <i>Picture contrast</i>	Adjust left to decrease picture contrast and soften the color. Adjust right to increase picture contrast and create more vivid color.
BRIGHTNESS <i>Picture adjustment</i>	Adjust left to darken the picture. Adjust right to brighten the picture.
COLOR <i>Color saturation</i>	Adjust left to decrease color intensity or saturation. Adjust right to increase color intensity or saturation.
HUE <i>Color tones</i>	Adjust left to increase the red tones. Adjust right to decrease the red tones.
SHARPNESS <i>Picture detail</i>	Adjust left to soften the picture detail. Adjust right to sharpen the picture detail.

Using the AUDIO 🎵 menu



For detailed information on using the remote control to modify menu settings, refer to "Learning menu selection" on page 26.

To select the AUDIO 🎵 menu:



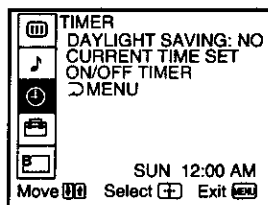
To restore the factory AUDIO settings

Press RESET while the AUDIO menu is displayed.

TREBLE	Adjust left or right to decrease or increase higher pitched sound.
BASS	Adjust left or right to decrease or increase low pitched sounds.
BALANCE	Adjust left or right to emphasize right and left speaker volume.
AUTO VOLUME <i>Stabilizes volume</i>	ON: Select to stabilize the volume. OFF: Select to turn AUTO VOLUME off. Press for direct selection of AUTO VOLUME settings.
EFFECT <i>Enhanced audio options</i>	Press or to select one of these customized effects: SIMULATED: Adds a stereo-like effect to mono programs. SRS: Produces a dynamic three dimensional sound for stereo audio signals.
MTS <i>Enjoy stereo, bilingual and mono programs</i>	MTS: Press or to select one of the following options: STEREO: Select when viewing a broadcast in stereo. SAP: Select to listen to bilingual broadcast. (Non-SAP programs will be muted when this feature is selected) MONO: Select to reduce noise during stereo broadcasts for areas of weak reception. Quick MTS access: Press MTS on your remote control to cycle through the MTS options.
SPEAKER <i>Custom selection of audio output source</i>	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 <i>Use to control the TV's volume through a stereo</i>	AUDIO OUT can only be set when SPEAKER is set to OFF. VARIABLE: Sound output varies according to the TV settings. <i>Useful when you want to use your TV's remote control to adjust the output of a separate audio system.</i> FIXED: Sound output is held at a fixed level through your stereo. <i>Use your A/V receiver's remote control to adjust the volume.</i>

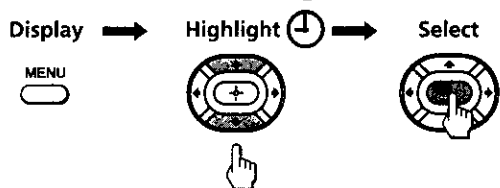
Using Your Menus (continued)

Using the TIMER menu



For detailed information on using the remote control to modify menu settings, refer to "Learning menu selection" on page 26.

To select the TIMER menu:











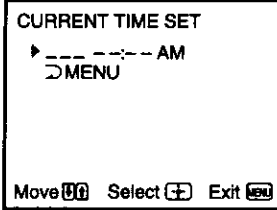













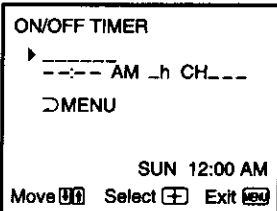


To cancel the ON/OFF TIMER function

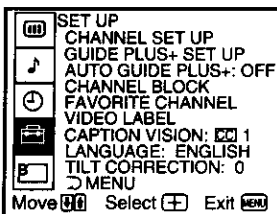
Press RESET while the ON/OFF TIMER menu is displayed.

Notes

- The GUIDE Plus+ feature will automatically set your clock. If the DAYLIGHT SAVING and CURRENT TIME SET options are grayed out, this is because the clock has automatically been set.
- Your TV's ON/OFF TIMER will not function when you are watching a program which has been scheduled for viewing using the GUIDE Plus+ feature.

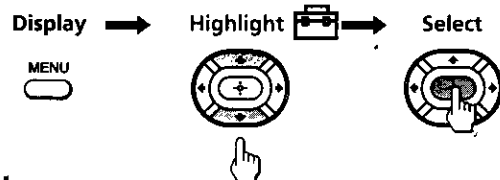
<p>DAYLIGHT SAVING <i>Automatically adjusts the time</i></p>	<p>Set DAYLIGHT SAVING time before setting the clock. Spring: Select YES to compensate for Daylight Saving Time. The current time moves one hour ahead. Fall: Select NO at the end of Daylight Saving Time. The current time moves back one hour.</p>
<p>CURRENT TIME SET <i>Necessary for the ON/OFF TIMER</i></p>	<p>With the CURRENT TIME SET menu open:</p> <ol style="list-style-type: none"> 1 Press . 2 Press  or  until the current day is displayed. Press  to select. 3 Press  or  until the current hour and AM/PM is displayed. Press  to select. 4 Press  or  until the current minute is displayed, press . <p>The clock is set. Press MENU to exit. <i>Any loss of power will cause these settings to be erased.</i></p> 
<p>ON/OFF TIMER <i>Wake up or scheduled viewing</i></p>	<p>With the ON/OFF TIMER menu open:</p> <ol style="list-style-type: none"> 1 Press . 2 Press  or  until the desired day or range of days is displayed. Press  to select. 3 Indicate the time that you want the TV to turn on by pressing  or  and then . 4 Set the time duration (maximum of 6 hours) by pressing  or  and then . 5 Press  or  until you reach the desired channel. Press . <p>The ON/OFF TIMER is now set. Press MENU to exit. <i>When you perform AUTO PROGRAM, all ON/OFF TIMER settings will be erased.</i></p> 

Using the SET UP menu















For detailed information on using the remote control to modify menu settings, refer to "Learning menu selection" on page 26.

To select the SET UP menu:

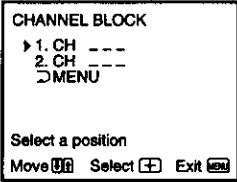
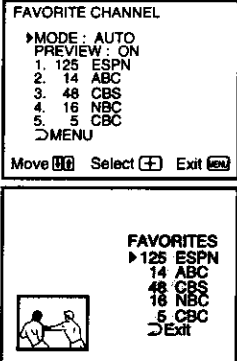



Notes

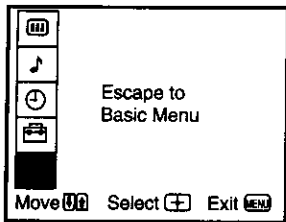
- Your remote control can be programmed to operate your cable box. (see page 36)
- When using the GUIDE Plus+ feature with a cable box, the CHANNEL FIX function will not be available. Your TV is automatically fixed to the appropriate channel using the GUIDE Plus+ feature.
- ON/OFF TIMER and CHANNEL BLOCK settings will be erased when CHANNEL FIX is set.
- If you use the CHANNEL FIX feature, you will not be able to tune to channels through the GUIDE Plus+ Program Guide.

<p>CHANNEL SET UP <i>Basic set up options for viewing</i></p> <p><i>The functions within the CHANNEL SET UP menu will not be available if you use a cable box with the GUIDE Plus+ feature.</i></p>	<p>With the CHANNEL SET UP menu open: Press  or  to access a feature, then press .</p> <p>CABLE: Select ON if your TV is connected to a cable system. After setting CABLE, you will need to run AUTO PROGRAM</p> <p>CHANNEL FIX: Press  or  to set the TV's input to one of the following options:</p> <p>2-6: When a cable box is connected to the VHF/UHF input. Press DBS/CABLE (FUNCTION) and then CH +/- to change channels through your cable box.</p> <p>AUX 2-6: When a cable box is connected to AUX and a cable or antenna is connected to VHF/UHF. You can alternate between the two inputs by pressing ANTon the remote control.</p> <p>VIDEO 1: When you have connected video equipment (e.g. A/V receiver) and you want the TV input fixed to it. You will be able to alternate between video sources using the A/V receiver.</p> <p>OFF: When you want to turn CHANNEL FIX off.</p> <p>AUTO PROGRAM: Instructs the TV to program all receivable channels.</p> <p>CHANNEL SKIP/ADD: With the CHANNEL SKIP/ADD window open:</p> <ol style="list-style-type: none"> Select the desired channel. Press  to SKIP or ADD (only one option will be available). If you SKIP or ADD a channel, the channel's status within the Program Grid will not change. To add or delete channels in the grid, you must use the EDITOR function. (see page 22) 	<div> <p>CHANNEL SET UP</p> <p>> CABLE: ON CHANNEL FIX: OFF AUTO PROGRAM CHANNEL SKIP/ADD > MENU</p> <p>Move  Select  Exit </p> </div> <div> <p>CHANNEL SKIP/ADD 33</p> <p>SKIP > ADD > MENU</p> <p>Use [0-9] or [CH +/-] to select the channel</p> <p>Move  Select  Exit </p> </div>
<p>GUIDE PLUS+ SET UP</p>	<p>This activates the GUIDE PLUS+ set up screen. (see "SET UP" on page 13) <i>The GUIDE PLUS SET UP menu cannot be accessed when you are in AUX, or VIDEO 1/2/3 mode.</i></p>	
<p>AUTO GUIDE PLUS+</p>	<p>ON: The GUIDE Plus+ feature automatically appears when the TV is turned on using the remote control.</p> <p>OFF: You must press the GUIDE button to access the GUIDE Plus+ feature.</p>	

Using Your Menus (continued)

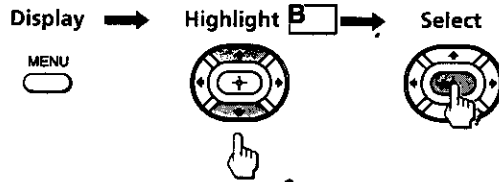
<p>CHANNEL BLOCK <i>Prevent child access to certain channels</i></p>	<p>With the CHANNEL BLOCK window open:</p> <ol style="list-style-type: none"> 1 Choose 1 or 2 and press +. 2 Press ▲ or ▼ to display the channel you want to block, press + to activate. <p>When you select the blocked channel, BLOCKED will appear on the screen. When you perform AUTO PROGRAM, your CHANNEL BLOCK settings will be erased. To erase the CHANNEL BLOCK settings, press RESET while the CHANNEL BLOCK menu is displayed. The CHANNEL BLOCK feature will not be available if you use a cable box with the GUIDE Plus+ feature.</p>	
<p>FAVORITE CHANNEL <i>Quick access to favorite channels</i></p>	<p>Setting FAVORITE CHANNEL:</p> <ol style="list-style-type: none"> 1 Press + and then ▲ or ▼ to select AUTO or MANUAL. (Selecting AUTO will display the last five channels chosen with the remote control's 0-9 buttons.) 2 Press ▲ or ▼ to move the cursor to 1, 2, 3, 4 or 5 and press +. 3 Press ▲ or ▼ to access the desired channel and press +. <p>To preview your favorite channels in the window picture, set PREVIEW to ON. If you are using a cable box with the GUIDE Plus+ feature, the PREVIEW function will not be available.</p> <p>Using FAVORITE CHANNEL:</p> <ol style="list-style-type: none"> 1 Press + when in normal viewing mode. Your FAVORITE CHANNEL options will appear. 2 Press ▲ or ▼ to access the channel you want to watch, and press +. <p>If PREVIEW is ON, a window picture displays your favorite channels as you cycle through the options. Channels selected through the AUX input will not appear in the FAVORITE CHANNEL menu.</p>	
<p>VIDEO LABEL <i>Label connected equipment for easy recognition</i></p>	<p>With the VIDEO LABEL window open:</p> <ol style="list-style-type: none"> 1 Press ▲ or ▼ to access the input mode you want to label and press +. 2 Press ▲ or ▼ to choose the label and press +. <p>VIDEO LABEL Options: VIDEO 1: VHS, 8mm, BETA, LD, GAME, DBS, DVD, WEB, RECEIVER, DTV. VIDEO 2/3: VHS, 8mm, BETA, LD, GAME, DBS, DVD, WEB, RECEIVER, DTV, SKIP.</p> <p>When VIDEO LABEL is set to WEB, the picture will darken, creating an ideal picture for WebTV viewing. If you select SKIP, your TV will skip this connection when you cycle through video sources using the TV/VIDEO button.</p>	
<p>LANGUAGE</p>	<p>Select from available languages to display all menus in your language of choice. GUIDE Plus+ menus are only available in English.</p>	
<p>TILT CORRECTION <i>Adjust your picture</i></p>	<p>(KV-35V68 only) Use this feature to correct any tilt of the picture. Press ▲ or ▼ to select a correction between +5 and -5 and press +.</p>	

Using the Basic Menu



For detailed information on using the remote control to modify menu settings, refer to "Learning menu selection" on page 26.

To select the Basic Menu:



Note

- The TV automatically displays the last menu used when MENU is pressed.

Basic Menu

Quick access to frequently used settings

With the Basic Menu window open:

- Press \uparrow or \downarrow to access the feature you want to change.
- Press \rightarrow to select.

VIDEO MODE: Press \uparrow or \downarrow to set the TV to one of the following settings:

VIVID: Select for a vivid, bright picture for daytime viewing.

STANDARD: Select to receive a standard picture.

MOVIE: Select for night time movie viewing. (see page 28)

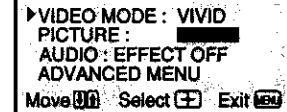
PICTURE: Press \uparrow or \downarrow to adjust the picture contrast. (see page 28)

AUDIO: Press \uparrow or \downarrow to set your audio to one of the following settings:

SIMULATED: Adds a stereo-like effect to mono programs.

SRS: Produces a dynamic three dimensional sound for stereo audio signals. (see page 29)

ADVANCED MENU: Select when you want to return to the main menus.



Operating Video Equipment

Programming the remote

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

- 1 Press CODE SET.
- 2 Press VTR/DVD (FUNCTION).
- 3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.
- 4 Press ENTER.

VCR code numbers

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332

Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
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
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

Operating a VCR Buttons on the remote control

To turn on or off	Press VTR/DVD (POWER).
To select a channel directly	Press the 0 - 9 buttons.
To change channels	Press CH +/-.
To record	Press ► and ● simultaneously.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press .
	To resume normal playback, press again or press ►.
To scan	Press ►► or ◄◄ during playback.
	To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Tips 

- 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.
- The code numbers for Sony VCR's 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

**MDP (Multi Disc Player)
code numbers**

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

Operating an MDP Buttons on the remote control

To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ■■. To resume normal playback, press again or press ►.
To scan	Press ►► or ◀◀ during playback. To resume normal playback, press ►.
To search the chapter forward or backward	Press CH +/-.

Tip 

If you will not be programming a DBS or cable box into the DBS/CABLE input, you can use it to program other video equipment (e.g. DVD, MDP, or second VCR). (see page 36)

**DVD (Digital Versatile Disc)
code numbers**

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

Operating a DVD player Buttons on the remote control

To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ■■. To resume normal playback, press again or press ►.
To scan	Press ►► or ◀◀ during playback. To resume normal playback, press ►.
To search the chapter forward or backward	Press CH +/-.
To select chapters directly	0-9 + ENTER.
MENU	Press to display DVD menu.
To move cursor in menu	Use your arrow buttons ↑, ↓, ←, →.

Operating Cable Box or DBS Receiver

Programming the remote

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

- 1 Press CODE SET.
- 2 Press DBS/CABLE (FUNCTION).
- 3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.
- 4 Press ENTER.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that were supplied with the equipment.

If the remote control doesn't work

- First, try repeating the setup 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 supplied remote control.
- Whenever you remove the batteries the code numbers may revert to the factory setting.

Cable box code numbers

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

DBS receiver code numbers

Manufacturer	Code
Sony	801 (preset code for remote control)
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/PROSCAN	802, 808
Toshiba	806, 807

Troubleshooting

Consult the table below; it suggests solutions to specific problems.

Problem	What it could be	What you can do
The TV does not turn on and a red light keeps flashing on the TV for more than a few seconds	<ul style="list-style-type: none"> Your TV may need service. 	<ul style="list-style-type: none"> Call your local Sony service center.
TV makes a noise when turned on	<ul style="list-style-type: none"> This is a normal function of your TV. 	
Screen is not lit and there is no sound	<ul style="list-style-type: none"> Power cord may not be plugged in. Batteries may not have been placed with the correct polarity. TV/VIDEO setting may be incorrect. 	<ul style="list-style-type: none"> Press TV/VIDEO until you receive a channel.
Poor or no picture (screen lit), good sound	<ul style="list-style-type: none"> VIDEO menu settings may not be adjusted correctly. Antenna/cable connections may be faulty. VIDEO LABEL inputs may be set to WEB. (This label darkens the screen for ideal WebTV viewing) 	<ul style="list-style-type: none"> Readjust your VIDEO menu settings. (see page 28) Check your VIDEO LABEL settings. (see page 32)
Good picture, no sound	<ul style="list-style-type: none"> Sound may be set to MUTE. Your TV may be set to SAP. Speaker may not be set correctly. 	<ul style="list-style-type: none"> Press MUTE. Check the MTS setting in the AUDIO menu. (see page 29) Check your SPEAKER settings. (see page 29)
No color	<ul style="list-style-type: none"> Color settings may not be adjusted correctly. 	<ul style="list-style-type: none"> Adjust the COLOR settings in the VIDEO menu. (see page 28)
Only snow and noise appear on the screen	<ul style="list-style-type: none"> CABLE may not be set correctly in the SET UP menu. Antenna/cable connections may not be correct. TV may be set to AUX mode. 	<ul style="list-style-type: none"> Ensure that you have selected the correct CABLE mode in the SET UP menu. (see page 31) Press ANT on your remote control to change the input mode. (see page 24)
Cannot receive upper channels (UHF) when using an antenna	<ul style="list-style-type: none"> CABLE setting may not be correct in the SET UP menu. 	<ul style="list-style-type: none"> Ensure that CABLE is set to OFF in the SET UP menu. (see page 31) Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see page 31)

Troubleshooting (continued)

Problem	What it could be	What you can do
Cannot receive any channels when using cable	<ul style="list-style-type: none"> • CABLE setting may not be set correctly in the SET UP menu. 	<ul style="list-style-type: none"> • Ensure that CABLE is set to ON in the SET UP menu. (see page 31) • Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see page 31)
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none"> • Volume may not be adjusted on your cable box. 	<ul style="list-style-type: none"> • Press TV (FUNCTION) and adjust the TV's volume.
TV is fixed to one channel	<ul style="list-style-type: none"> • CHANNEL FIX settings may not be correct. 	<ul style="list-style-type: none"> • Check your CHANNEL FIX settings. (see page 31)
Program information is not available in the Program Grid	<ul style="list-style-type: none"> • Cable box is not turned ON. • You have entered the wrong Zip Code during SET UP. • IR Blaster is positioned incorrectly. • Your reception could be poor. • PIP must be turned off to allow the GUIDE Plus+ to download program information when the TV is turned on. (see "Setting up the GUIDE Plus+ Feature" on page 13) 	<ul style="list-style-type: none"> • Cable box must be left on at all times. • Position the IR Blaster directly in front of your Cable box's IR receiving area. • If you have connected a cable box to your TV, you must turn off the TV using the TV's remote control. Do not power the TV off using the cable box switch.
Channel numbers within the GUIDE do not correspond to the appropriate channel logos.	<ul style="list-style-type: none"> • GUIDE Plus+ feature is set incorrectly. 	<ul style="list-style-type: none"> • Perform GUIDE Plus+ SET UP again, ensuring that the appropriate Zip or Postal Code, Cable Setting, and Channel Map are chosen. (see page 13)
Programs scheduled for recording are not recorded.	<ul style="list-style-type: none"> • IR Blaster is positioned incorrectly. • Your VCR was setup incorrectly. • When VCR and cable box are used together, the VCR must be set to channels 3 or 4, whichever the cable box is set to 	<ul style="list-style-type: none"> • Position the IR Blaster directly in front of your Cable box's IR receiving area. • Reenter the GUIDE Plus+ SET UP screen and enter correct VCR information. (see page 31) • When the recording process begins, the VCR must be turned off.

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) (customers in Canada only)

Supplied accessories

Remote control RM-Y154 (1)
 Batteries size AA (R6) (2)
 IR Blaster (1)

Optional accessories

Connecting cables
 VMC-810S/820S, RK-74A,
 RK-G69HG, VMC-10HG/30HG
 TV Stand SU-32A4, SU-35A4
 U/V mixer EAC-66

Design and specifications are subject to change without notice.

●[®] SRS (SOUND RETRIEVAL SYSTEM)

The ● SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

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	KV - 32V68	KV - 35V68
Power requirements	120 V, 60 Hz	120 V, 60 Hz
Number of inputs/outputs		
Video ¹⁾	3	3
S VIDEO ²⁾	2	2
Audio ³⁾	3	3
Audio out ⁴⁾	1	1
Monitor out ¹⁾	1	1
TV out ^{1) 3)}	1	1
S-Link	3	3
G-Link (IR Blaster)	1	1
Speaker output (W)	10W × 2	10W × 2
Power consumption (W)		
In use (Max.)	200 W	230 W
In standby	8 W	8 W
Dimensions (W/H/D)		
(mm)	821 × 675.3 × 587 mm	920 × 730.8 × 641.8 mm
(in.)	32 ³ / ₈ × 26 ⁵ / ₈ × 23 ¹ / ₂ in	36 ¹ / ₄ × 28 ³ / ₄ × 25 ¹ / ₄ in
Mass (kg)	70 kg	93 kg
(lbs)	154 lbs	205 lbs

Notes

- 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 Impedance: 47 kilohms
- ⁴⁾ More than 408 mVrms at the maximum volume setting (variable)
 More than 408 mVrms (fix)
 Impedance: 50 kilohms

Television system

American TV standard, NTSC

Channel coverage

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

Picture tube

Trinitron[®] tube

Visible screen size

32-inch picture measured diagonally (KV-32V68 only)

35-inch picture measured diagonally (KV-35V68 only)

Actual screen size




34-inch picture measured diagonally (KV-32V68 only)

37-inch picture measured diagonally (KV-35V68 only)

Antenna

75 ohm external terminal for VHF/UHF

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