

**SONY**

**COLOR REAR VIDEO PROJECTOR**

# KPR-41DS2

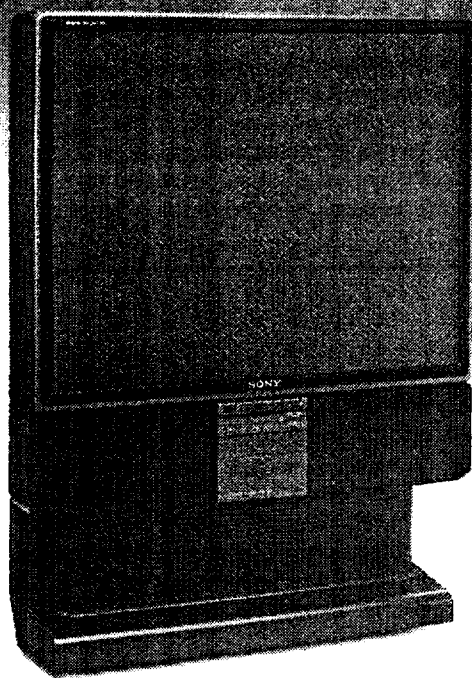
## Operating Instructions

For correct and safe use, please read the operating instructions carefully before using the projector.

## Owner's Record

Please record the serial number of your projector in the space provided below. Please also record the date of purchase and the name of the dealer from whom you purchased the projector.

Model No. KPR-41DS2 Serial No. \_\_\_\_\_

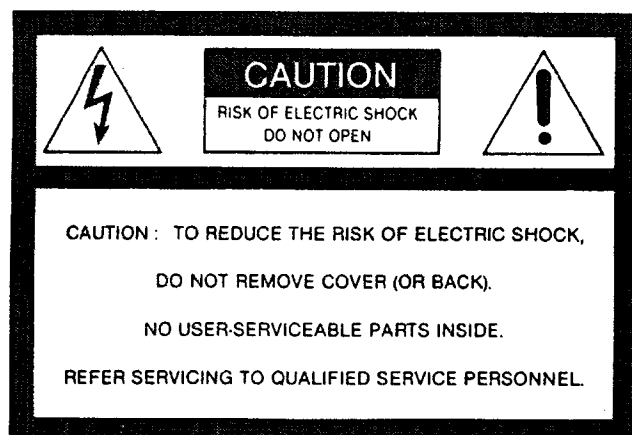


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## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



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



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

# Precautions

## Safety

- Operate the unit only on 120 V AC.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

## Installation

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the unit in a hot or humid place or in a place subject to direct sunlight, excessive dust or mechanical vibration.
- Avoid operating the unit at temperatures below 5°C (41°F).
- After the unit has been transported from a cold location directly to a warm location, or if the room temperature has changed suddenly, pictures may be blurred or show poor color over portions of the picture. This is because moisture has condensed on the mirrors or lenses inside the projector. Wait until the moisture evaporates.
- Avoid placing the unit on a slanting or uneven floor.

## CAUTION

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

## Note to CATV system installer:

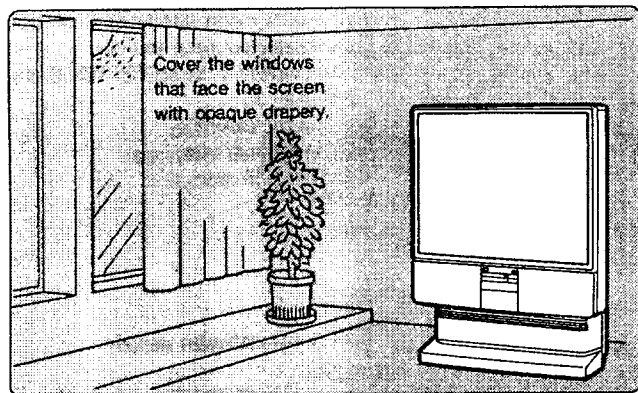
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

## Features

### Illumination

- To obtain a clear picture, the screen should not be exposed to illumination or sunlight directly from the front.

Spot lighting whose light comes down from the ceiling is recommended.



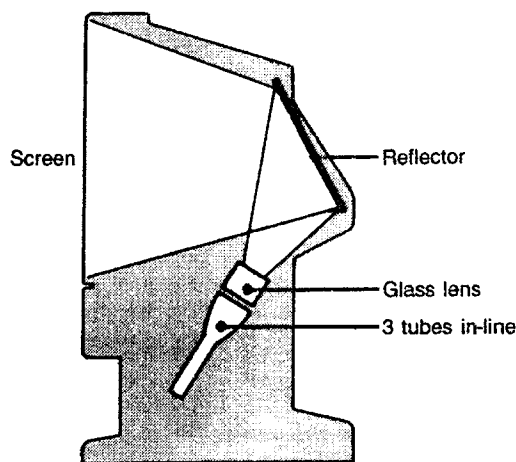
It is desirable to install the projector in a room whose floors and walls are not of light-reflecting material. If these are of reflecting material, it would be desirable to change to a dark carpet or wall paper.

### Maintenance

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.
- To keep the cabinet looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.
- To remove dust from the front of the screen, unplug the unit and wipe it gently with a soft cloth slightly dampened with water or a mild detergent solution, using vertical strokes only. Then wipe it again with a dry, soft cloth. Never use solvents or thinners for cleaning purposes.
- If the picture becomes darkened after the unit has been in use for a long period of time, cleaning the inside of the unit may be required. Consult qualified service personnel for this.

Use of this color rear video projector for other than private performance of programs broadcast for the use of the general public may require authorization from the transmitter and/or owner of such programs. Use with cable television transmission may require authorization from the cable system transmitter and/or program owner.

- **Remote control color rear video projector** with a multifunction Remote Commander projects TV pictures on a self-contained 41-inch screen (measured diagonally).
- A unique **"folded optics"** system with one reflector less than other systems provides "compact and slim" projector design.



- **Velocity modulation circuitry** improves picture quality.
- **"Optical coupling and cooling"** system remarkably improves the picture contrast.
- **Surround system** creates the atmosphere of a movie theater or a concert hall.
- **Two-way coaxial speakers** provide powerful sound reproduction.
- **Built-in stereo decoder** decodes MTS (Multichannel TV sound) broadcasts into left and right stereo or SAP (Second Audio Program) channels.\*
- **Multiband VHF/UHF/CATV tuner** receives up to 125 cable channels for total of 181 possible off-air and cable channels.
- **S VIDEO INPUT jack** which is connected to the S video output jack on the VCR allows superior pictures from the VCR to be displayed on the screen.
- **Built-in video and L/R audio line outputs** provide the selected output from the TV tuner or any of the equipment connected to the audio-video line inputs.
- **On-screen displays** for easy reference to operating modes and adjustments.
- **The supplied VIDEO CADDY™\*\*** provides support for optional video equipment.

\* Depends on availability of off-air stereo broadcasts.

\*\* VIDEO CADDY is a trademark of Sony Corporation.

# Location of Controls

For details, refer to the pages indicated in the circles.

## Front

### Item display ⑦

Indicates the selected item to be adjusted by the ADJUSTMENT buttons and the RESET indication.

### Bar display

Indicates the picture and sound adjustment levels.

Remote control detector

TV/VIDEO button ⑫

SLEEP lamp ⑥

VIDEO lamp

STEREO lamp ⑦

SURROUND lamp ⑦

### On-screen display

Indicates as follows:

- Channel number
- MTS mode (MAIN, SAP or BOTH)
- Selected input sources (VIDEO 1, VIDEO 2, VIDEO 3 or EXT-A)
- AUX indication
- MUTING indication
- SLEEP indication

POWER switch

CHANNEL scan button ⑥

VOLUME button ⑥

Speaker

Push to open the front panel

### ADJUSTMENT buttons ⑦

Use for picture and sound adjustment.

CABLE selector ③ ③

SPEAKER selector ③

AUTO STEREO selector ⑦

SURROUND selector ⑦

NORM (normal)/③

TEST selector

Centering controls ③

MTS (Multichannel TV Sound) button ⑦

ERASE button ③

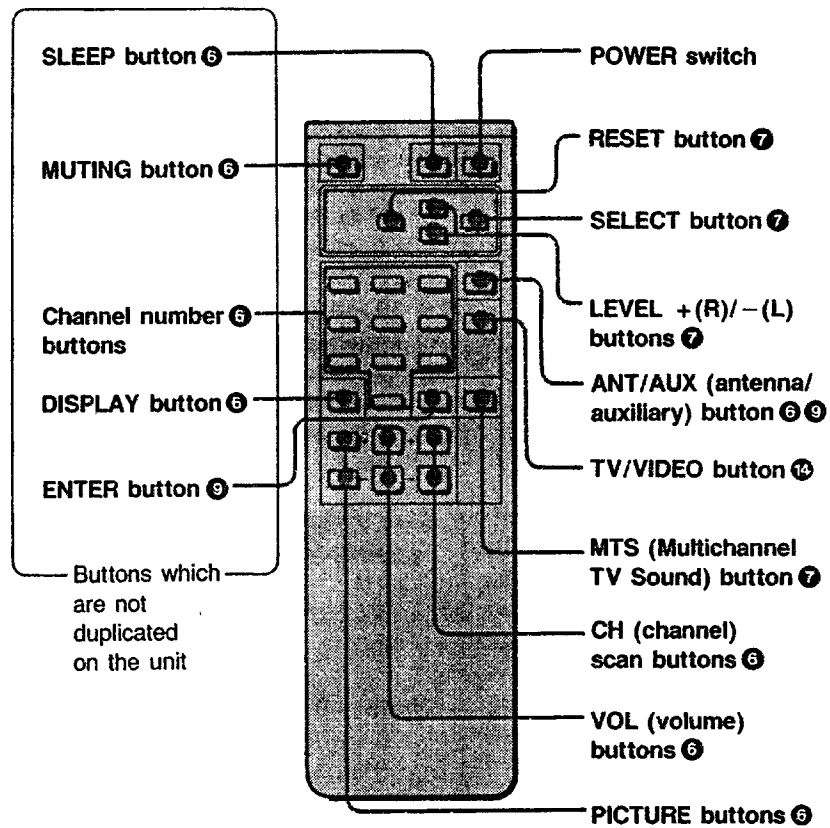
ADD button ③

ANT/AUX (antenna auxiliary) button ③ ③

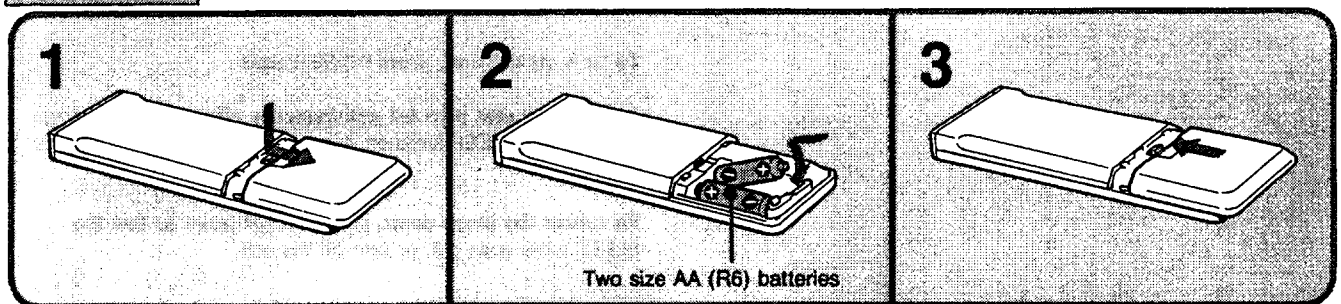
PICTURE buttons ③

VIDEO 2 IN jacks ③ ③

V (vertical) HOLD control ③



#### Battery Insertion



#### Notes

- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Commander and the unit.
- Operable range is limited. The shorter the distance between the Commander and the unit, the wider the angle within which the Commander can control the unit.

Viewing TV Programs

This unit is capable of receiving normal VHF and UHF broadcasts plus cable TV channels. (See "Cable TV channel chart" below.)

Usually the Remote Commander is all that is needed to operate the unit in everyday use.

Preparation

- 1

Press POWER to turn on the unit.
- 2

Set AUTO STEREO selector to ON.
- 3

If the "SAP" indication appears, press the MTS button twice so that the "MAIN" indication is displayed.
- 4

Set the CABLE selector.

For VHF and UHF channels: OFF

For cable TV channels: ON
- 5

Press ANT/AUX button so that the on-screen "AUX" indication is as follows:

For VHF, UHF and regular cable TV channels: The indication should be off.

For pay cable TV channels: The indication should be displayed.

The displays, "VIDEO", "EXT-A" or "AUX" indicate that signals fed in through the VIDEO 1/3 INPUT jacks, VIDEO 2 IN jack, or through the AUX terminals are being received.

Operation

- 1

Select channels in one of the following two ways.

•

Press the numeral(s) of the channel and then press ENTER.

Ex. To select channel 125, press 1, 2, 5 and then ENTER.

•

Press CHANNEL or CH "+" for higher-numbered channels and "-" for lower-numbered channels.

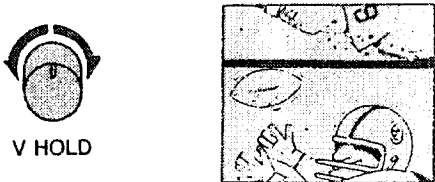
Preset channels will appear in sequence.
- 2

Adjust the volume and picture to your preference.

Press VOLUME "+" to increase volume, "-" to decrease it.

Press PICTURE "+" to increase picture contrast, "-" to decrease it.

If the picture rolls vertically, turn V HOLD control of the registration panel on the front until the picture stabilizes.



For presetting desired channels, see page 9.

To keep the channel display on the screen, press DISPLAY. Press again to make them disappear.

To mute the sound immediately, press MUTING. Press it again to restore the sound to its previously-set level.

To turn off the unit, press POWER again.

To have the unit turn off automatically after one hour, press SLEEP. The SLEEP lamp on the control panel will remain lit for one hour.

To cancel the sleep timer, press SLEEP again so that the SLEEP lamp goes out, or turn off the unit.

Cable TV channel chart\*

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to this chart.

Number on this set					1	5	6	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Corresponding CATV channel					A-8	A-7	A-6	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
31	32	33	34	35	36	37	38	39	.....	93	94	95	96	97	98	99	100	101	102	.....	123	124	125	
R	S	T	U	V	W	W+1	W+2	W+3	.....	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	.....	W+82	W+83	W+84	

Check with your local cable TV company for more complete information on the available channels.

\* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.



Listening to Multichannel TV Sound (MTS) Broadcasts

**To receive a stereo program**  
Normally set the AUTO STEREO selector to ON. In this position, the STEREO lamp on the control panel will light up whenever a stereo broadcast is received.  
To listen to the stereo sound, select the MAIN mode with the MTS button so that the on-screen MAIN indication appears. The stereo sound will be heard from the left and right speakers.

Every push on the MTS button changes the indication as follows:



**To listen to a SAP (Second Audio Program) broadcast**  
Press the MTS button until the SAP indication is displayed. The SAP sound will be heard from both speakers.

**To listen to both MAIN and SAP broadcasts**  
Press the MTS button until the BOTH indication is displayed. The MAIN and SAP sounds will come out from the left and right speakers respectively.  
The MAIN sound becomes monaural (mixed) even if it is a stereo broadcast, as the sound comes only from the left speakers.

Notes

- The selected mode will be retained even after the power has once been turned off.
- There may be cases of stereo broadcasts where excessive "noise" will be heard due to a weak incoming signal. In this case, press the AUTO STEREO selector to OFF (monaural mode) and the noise should be eliminated.
- When the SAP or BOTH mode is selected and there is no SAP broadcast, no sound is heard from the speaker (in SAP mode).
- The SAP broadcast will always be transmitted with the MAIN broadcast.

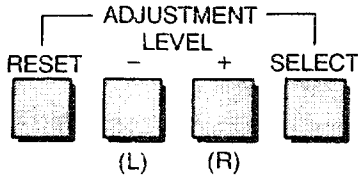
Enjoying Surround Effect

Set the SURROUND selector to ON when the stereo sound is received.  
The SURROUND lamp will light up.  
You can enjoy the atmosphere of a movie theater or a concert hall in your own listening room.

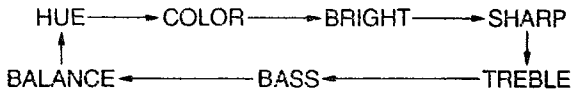
**Note**  
The surround function operates only for stereo sound.

Additional Picture and Sound Adjustment

The necessary controls are on the control panel.



1 Press SELECT consecutively until the on-screen display of the item you desire to adjust appears. The display will change as follows:



The display will disappear after a few seconds but will appear again when the next step is taken.

2 Press LEVEL - (L)/ + (R) to adjust the selected item.

	Selected item	-(L) Left button	+(R) Right button
PICTURE ADJUST-MENT	HUE	Skin tones become purplish	Skin tones become greenish
	COLOR	For less color intensity	For more color intensity
	BRIGHT	For less brightness	For more brightness
	SHARP	For less sharpness	For more sharpness
SOUND ADJUST-MENT	TREBLE	To decrease treble response	To increase treble response
	BASS	To decrease bass response	To increase bass response
	BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

**On-screen color-bar displays**  
When any of the above adjustments are made, a colored segmented bar appears on the screen to indicate the appropriate setting level.

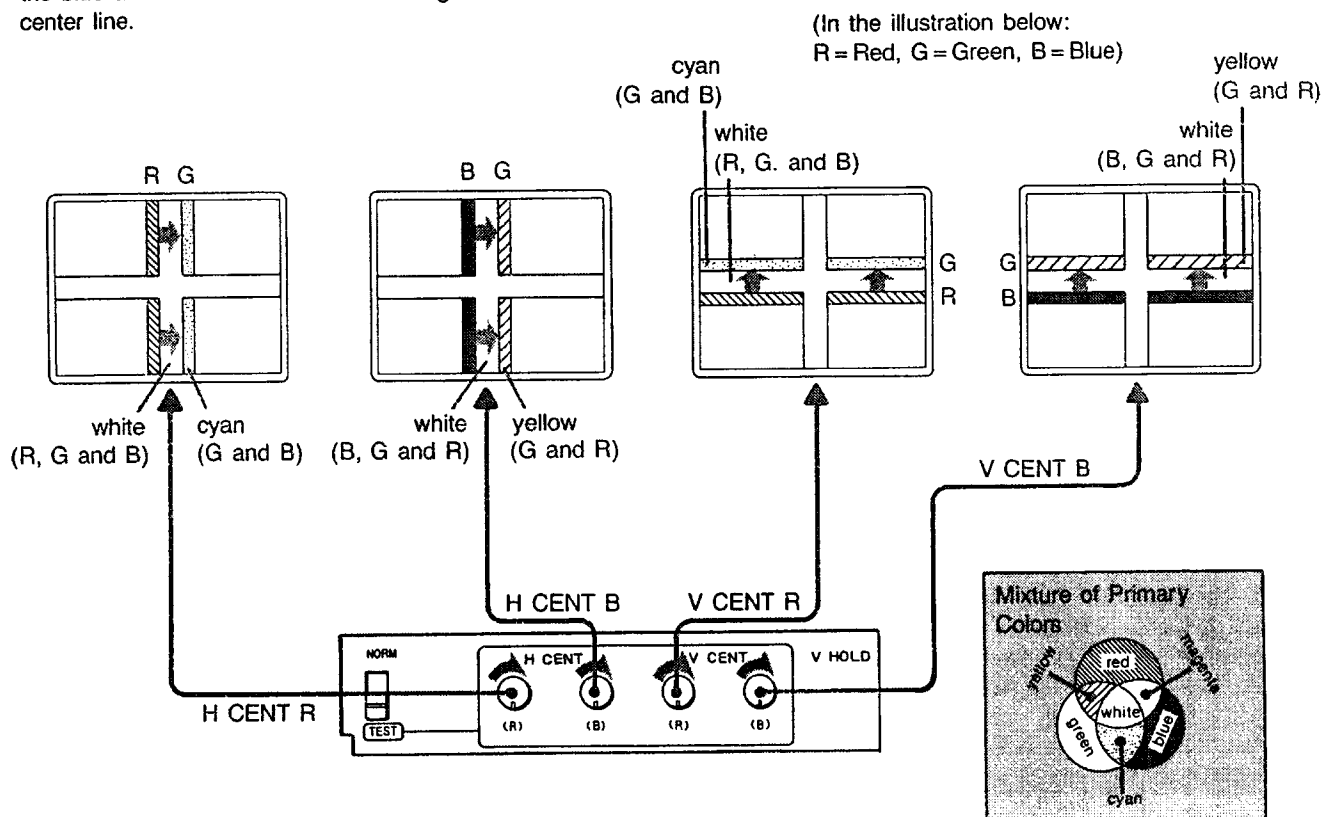
To clear the adjustments above and restore the factory preset levels, press the RESET button. The RESET indicator will appear for a few seconds.

## Registration Adjustment

When the red, green and blue lines are not superimposed (the cross is not seen as white), perform the registration adjustment. Should the difficulty persist, contact your Sony dealer.

Follow steps 1 through 6.

- 1 Press POWER to turn on the unit.
- 2 Open the front panel and set the NORM/TEST selector to TEST. A built-in test pattern will be displayed on the screen.
- 3 Adjust the H CENT (B) and H CENT (R) controls so that the blue and red vertical lines converge with the center line.
- 4 Adjust the V CENT (B) and V CENT (R) controls so that the blue and red horizontal lines converge with the center line.



As you turn the controls clockwise, the lines move in the direction indicated in the illustrations. To move the lines in the opposite direction, turn the controls counterclockwise.

- 5 Repeat steps 3 and 4 until the cross appears white.
- 6 After the adjustment is completed, set the NORM/TEST selector to NORM.

### Note

When the NORM/TEST selector is set to TEST, sound will not be heard.



# Presetting Channels

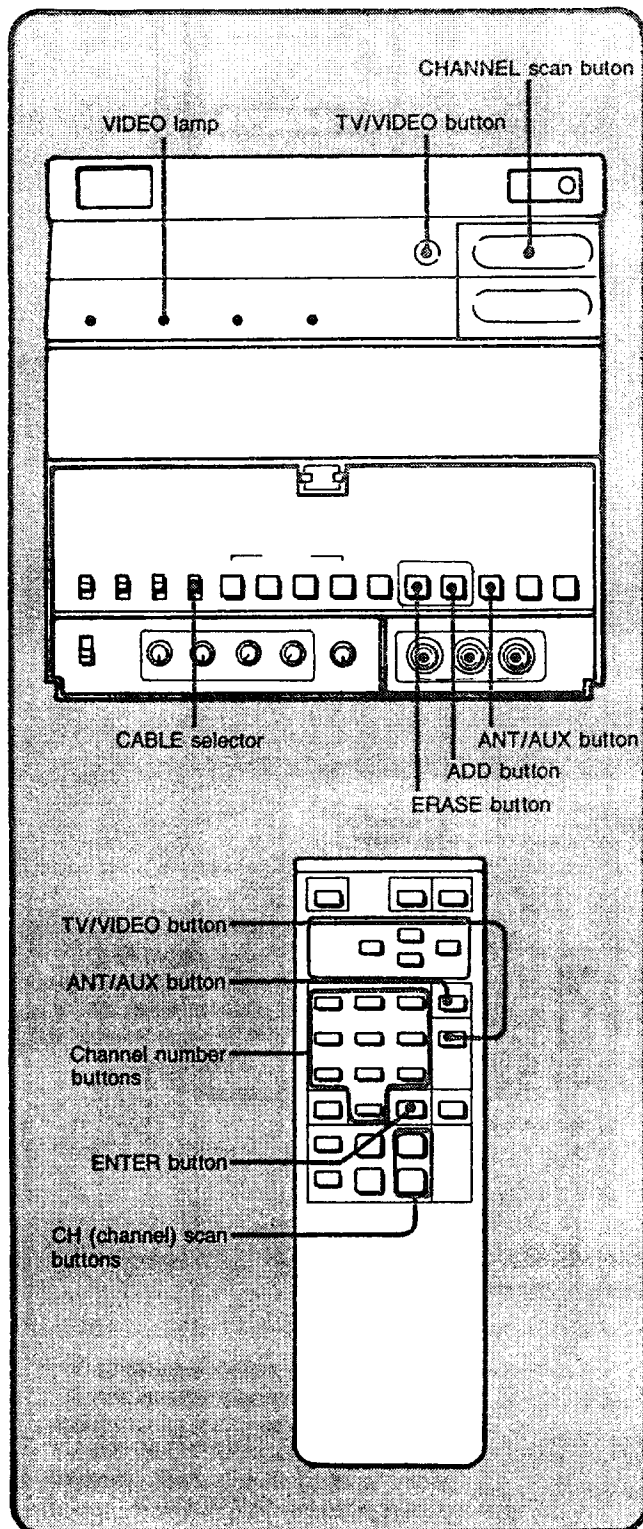
Receivable channels of your unit are:

VHF: 2—13

UHF: 14—69

CATV: 1—125

By adding and erasing channels, you can preset your unit so that only the desired channels appear in sequence when the CHANNEL + / - are pressed.



## Preparation

- 1 Press POWER to turn on the unit.
- 2 Press TV/VIDEO until the on-screen display (VIDEO 1/2/3 or EXT-A) and VIDEO lamp is off.
- 3 Set CABLE selector.  
For VHF and UHF channels: OFF  
For cable TV channels: ON
- 4 Press ANT/AUX button so that the on-screen "AUX" indication is as follows:  
For VHF, UHF and regular cable TV channels: The indication should be off.  
For cable TV channels: The indication should be displayed.

## Adding Channels

- 1 Select the channel to be added by pressing the channel number buttons and then ENTER.
- 2 Press ADD.  
A "+" indication will appear on the left of the channel number, indicating that the channel has been added.

Repeat steps 1 and 2 for other channels to be added.

## Erasing Channels

- 1 Select the channel to be erased.
- 2 Press ERASE.  
A "-" indication will appear on the left of the channel number, indicating that the channel has been erased.

Repeat steps 1 and 2 for other channels to be erased.

To add erased channels again, follow the steps in "Adding Channels".

## Note

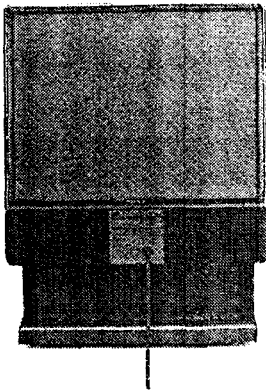
If you erase a VHF or UHF channel, the cable TV channel with the same number will also be erased, and vice versa.

# Application with Other Optional Equipment

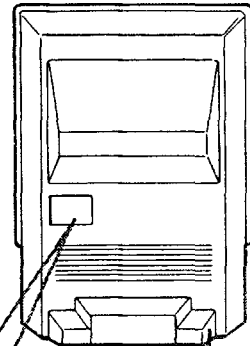
This unit is equipped with various input/output jacks and terminals for your desired equipment to be connected.

For further details, refer to the page number next to each item.

## Front



**VIDEO 2 IN (input) Jacks (phono type) 13 15**  
Connect to a VCR or microcomputer.



AC power cord

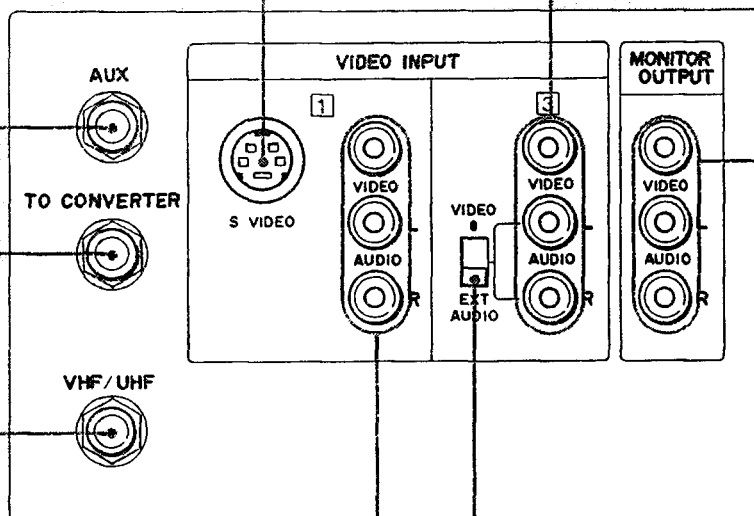
## Rear

**VIDEO 1 S VIDEO INPUT jack (4-pin mini-DIN type) 16**  
Connect to the VCR equipped with the S video output jack. When this jack is connected, even if the "VIDEO" jack (phono type) of the VIDEO 1 INPUT is connected, the picture to be monitored is switched automatically to the signal from this jack.

**AUX (auxiliary) terminal (F type) 17**

**TO CONVERTER terminal (F type) 17**

**VHF/UHF terminal (F type) 17**



**VIDEO 3 INPUT jacks (phono type) 12 16**  
Connect to a VCR, video disc player or audio equipment, etc.

**MONITOR OUTPUT jacks (phono type) 14 15**  
Connect to a VCR or color monitor. Either the TV or VCR signal selected by the TV/VIDEO button is supplied.

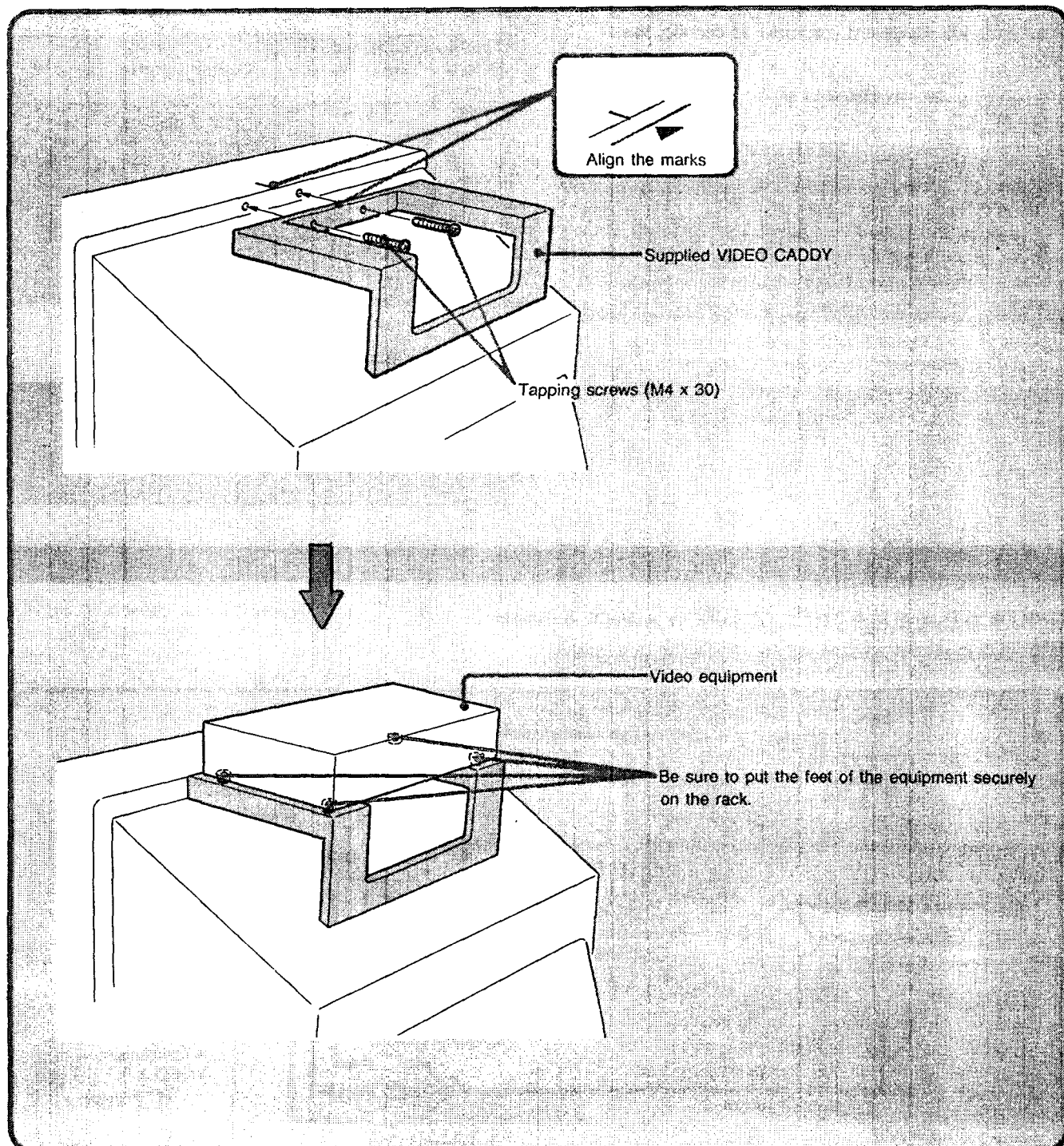
**VIDEO 1 INPUT jacks (phono type) 12 13**  
Connect to a VCR\*, video disc player, etc.

\* You will achieve better picture and sound quality than by connecting the VCR only to the antenna terminals.

**VIDEO 3/EXT AUDIO selector 12 16**  
Select it depending on the equipment connected to the VIDEO 3 INPUT jack. When video equipment is connected, set to VIDEO 3, when audio equipment is connected, set to EXT AUDIO.

# Rack Mounting

Mount the supplied VIDEO CADDY™ as illustrated below to set up the optional video equipment.



## Cautions

- Do not put equipment over 15 kg on the rack. Otherwise, the projector may be damaged.
- Do not place equipment upon another. It may be unstable and cause the equipment to fall down.
- Do not move the projector with the video equipment on it.

After setting up the video equipment, adjust the registration again, if necessary.

## Optional Audio/Video Connecting Cables

The optional connecting cables to be used for connecting other equipment depend upon what type of audio and video jacks the equipment you desire to connect has.

The following are few examples of the possible connections.

### Notes on connection

- Before connecting, make sure that the power to each piece of equipment is turned off.
- The plugs should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Match the color when connecting the plugs to the jacks.

### Cables to be connected to the VIDEO 1, 2 and 3 INPUT jacks

The type of audio and video jacks of the equipment to be connected.	Connecting cable to be used
Video (phono-type) Audio (L, R) (phono-type)	VMC-820S
Video (phono-type) Audio (mini-type)	VMC-2MP3
Video (phono-type) Audio (phono-type)	VMC-820MS

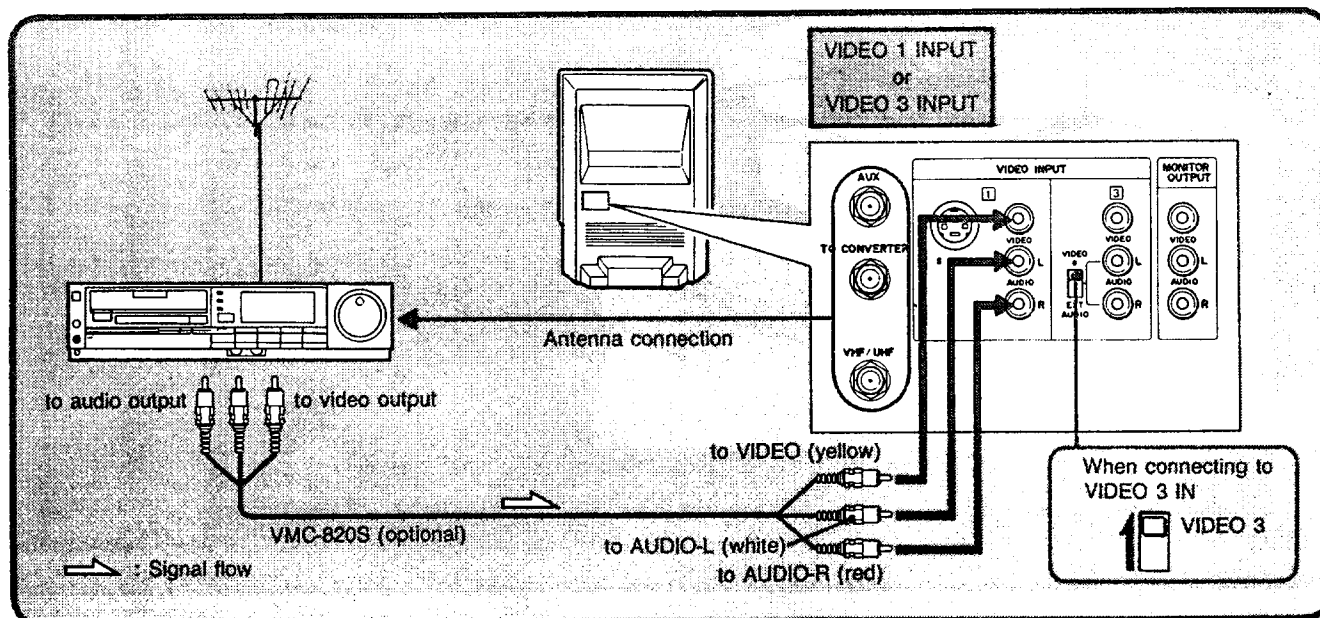
### Cable to be connected to the S VIDEO jack

S VIDEO (4-pin mini DIN type)	YC-15V/30V
-------------------------------------	------------

## VCR Connection

Keep the VCR away from the TV, if the display or sound is distorted.

### 1 Connecting VCRs without the S video output jack

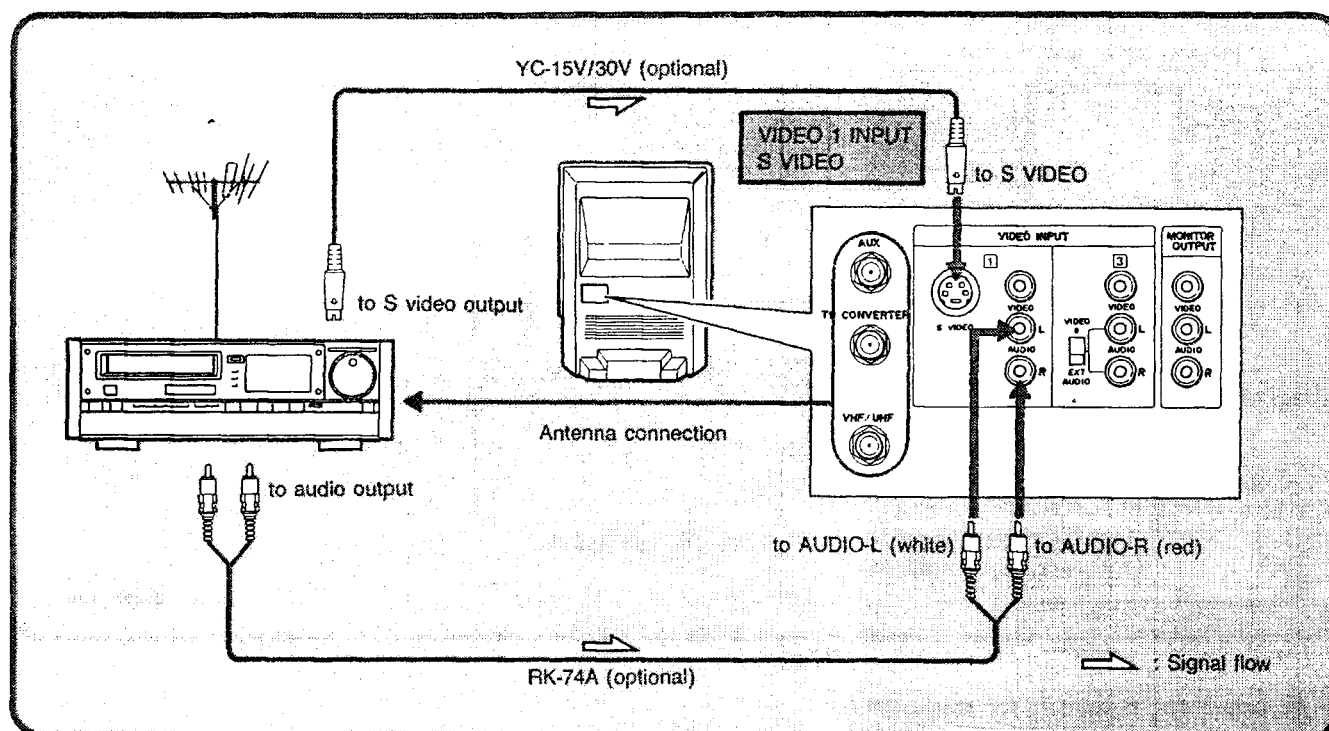


With this connection, you will be able to...

- View the playback of tapes
- Record TV programs
- Record a TV program while viewing another

### Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.



With this connection, you will be able to ....

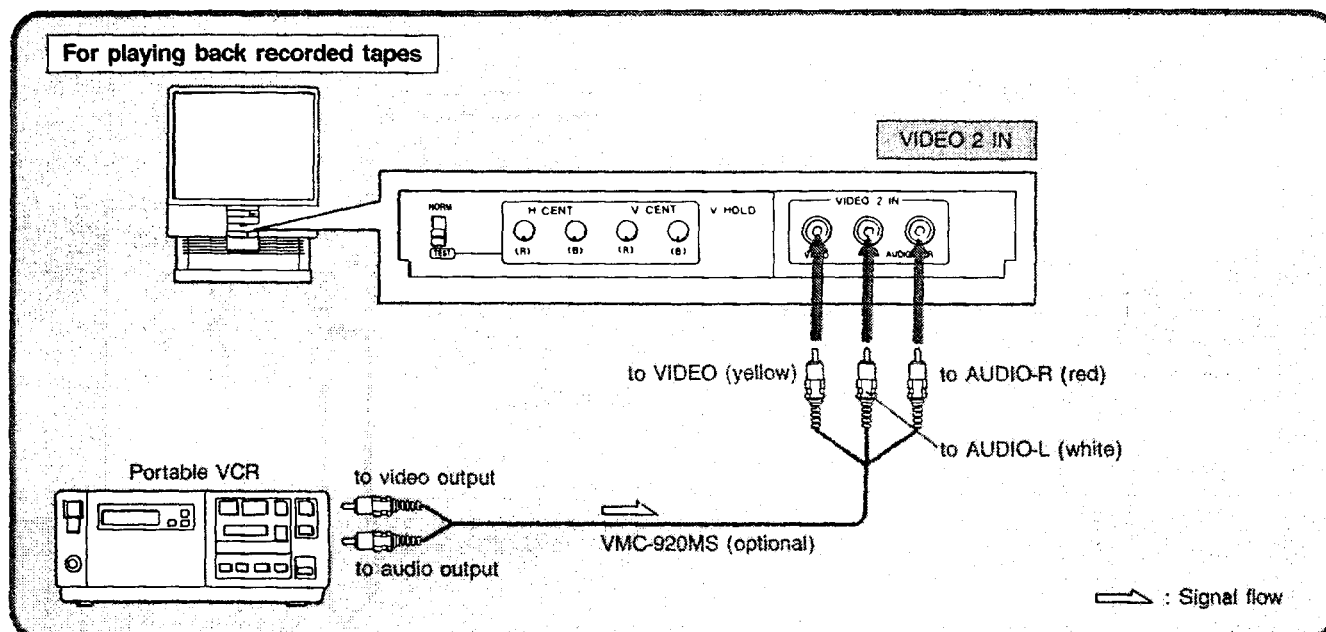
- View the playback of tapes
- Record TV programs
- Record a TV program while viewing another

#### ABOUT S VIDEO INPUT

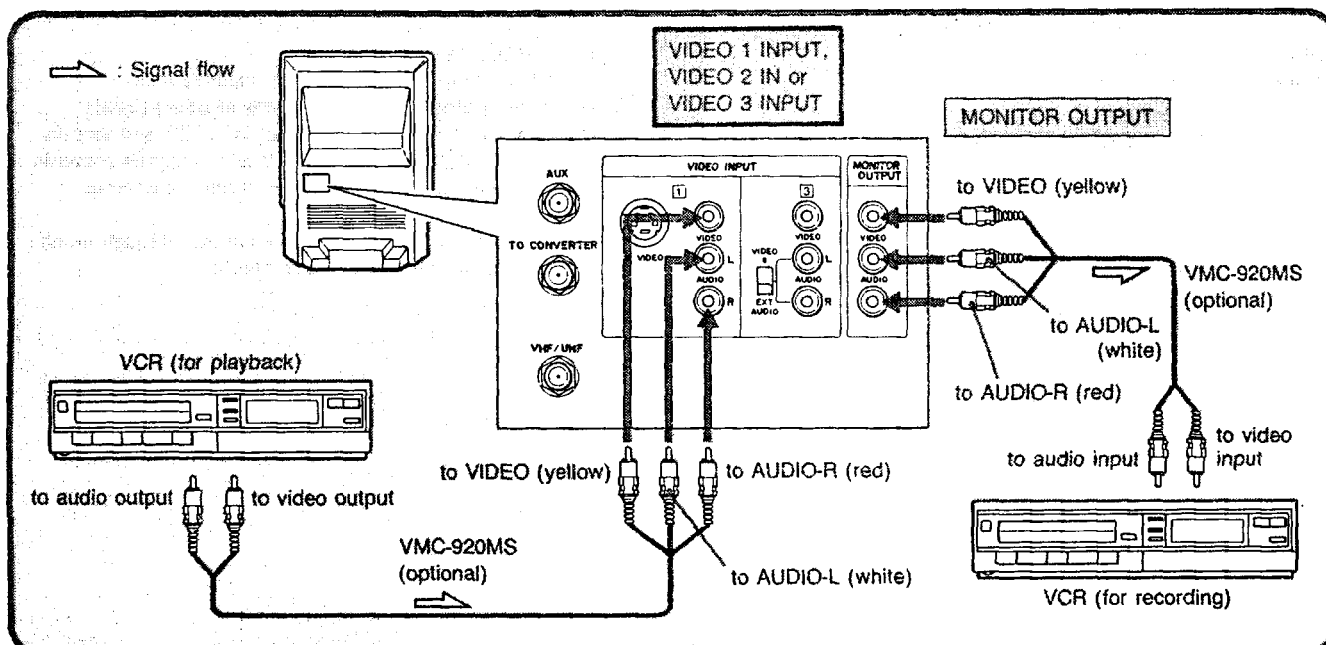
Video input and output signals may be separated into Y (luminance or brightness) and C (chroma or color) signals. Usually these two signals are combined in a VCR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interfering with one another, thereby improving picture (especially in color) quality.

This unit is equipped with an S video input jack through which these separated signals can be input directly.

### 3 Connecting portable VCRs (that are not equipped with/connected to a TV tuner)



### 4 Connecting two VCRs for tape editing



#### Operation

- 1 Press TV/VIDEO button so that the desired video source display appears.  
The VIDEO lamp will light up.
- 2 Set the playback VCR to the playback mode and set the recording VCR to the recording mode.

#### Note

The MONITOR OUTPUT jacks are not output the signals from the VCR connected to the S VIDEO INPUT jack.  
To edit the tape using the VIDEO 1 INPUT, connect the video output jack of the playback VCR to the "VIDEO" jack (phono type).

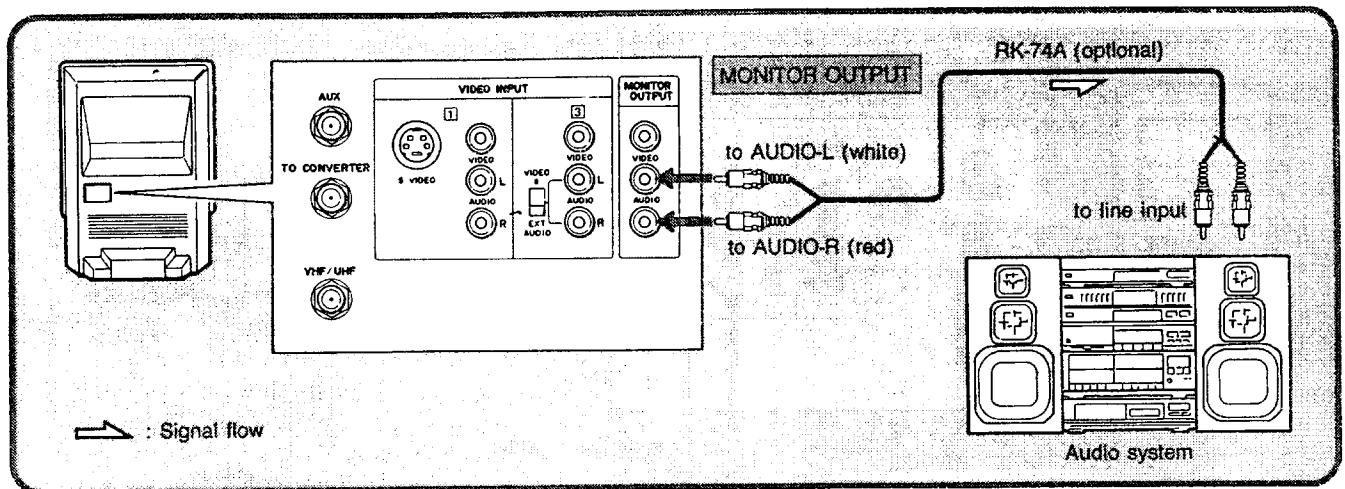
Every time you press the TV/VIDEO button, the display will change as follows:

VIDEO 1 → VIDEO 2 → VIDEO 3 → TV channel

The channel number buttons on the Remote Commander or the CHANNEL scan buttons will not function while the VIDEO lamp is lit.

## Audio System Connection

To monitor TV sound with a stereo system



To monitor TV sound only from a stereo system

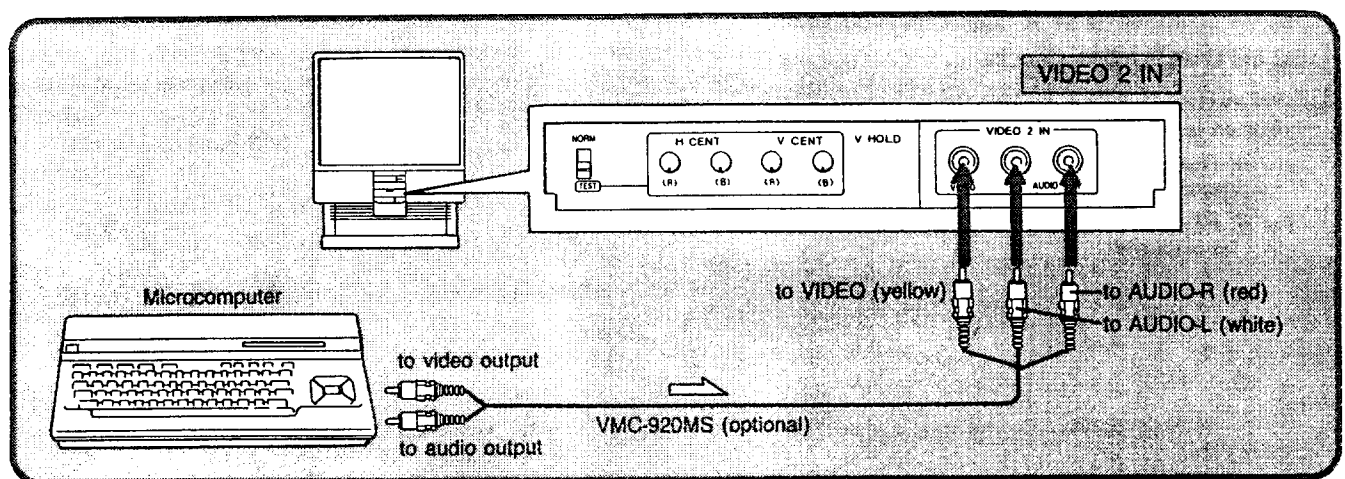
Set SPEAKER selector on the front panel to OFF.

Sound from the projector will be off.

In this case, sound volume from the stereo speaker can be adjusted with the projector or Remote Commander (variable).

When SPEAKER selector is set to ON, adjust the volume from the stereo with stereo amplifier.

## Microcomputer Connection



### Note

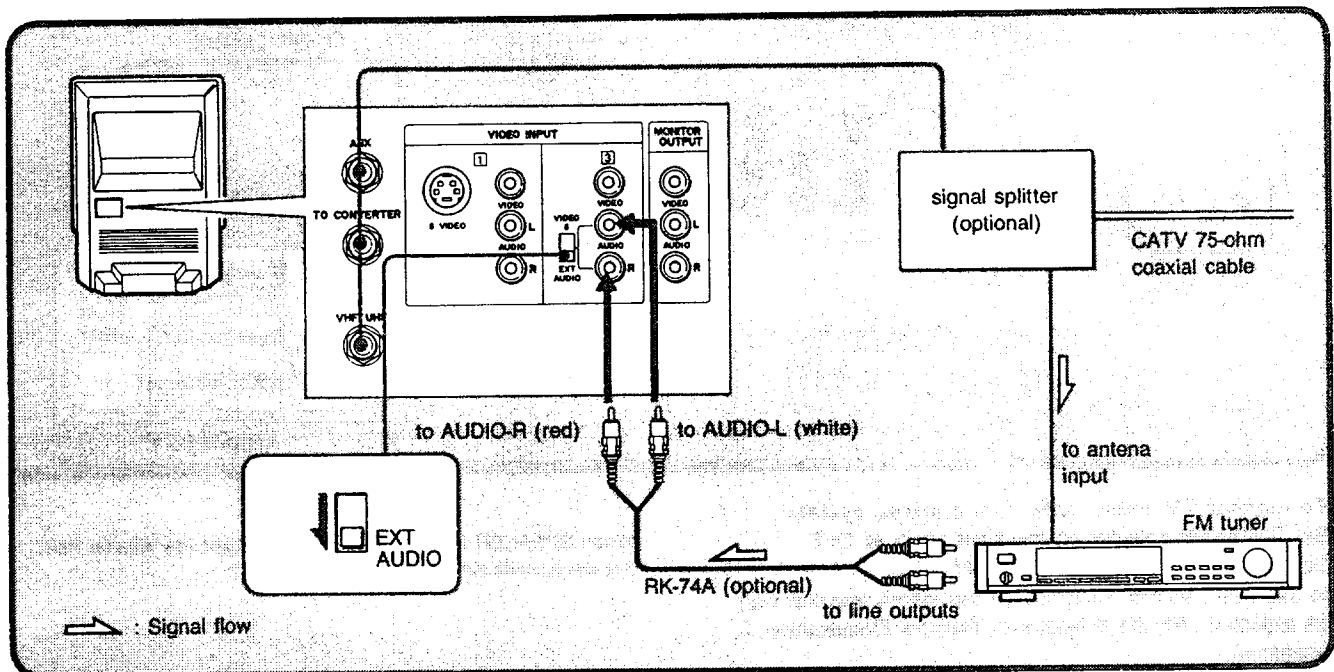
Do not keep the still picture displayed. It may cause to make the phosphor mark on the screen.



# Enjoying FM Simulcasted Programming

By connecting an FM stereo tuner to the AUDIO L/R jacks in addition to the usual CATV cable connection, you can enjoy certain cable TV programs with stereo sound, such as MTV (music television), whose stereo audio signals are

sent over the cable on certain FM frequencies. The incoming cable signal is split by an optional signal splitter and fed to both the TV tuner (for picture) and FM tuner (for sound).



## Preparation

- 1 Press POWER to turn on the unit.
- 2 Set VIDEO 3/EXT AUDIO to "EXT AUDIO".
- 3 Press TV/VIDEO button as many times as necessary so that the on-screen "EXT A" indication is displayed.
- 4 Set the CABLE selector to ON.
- 5 Press ANT/AUX button so that the on-screen "AUX" indication is as follows:  
For regular cable TV channels: The indication should be off.  
For pay cable TV channels: The indication should be displayed.

## Operation

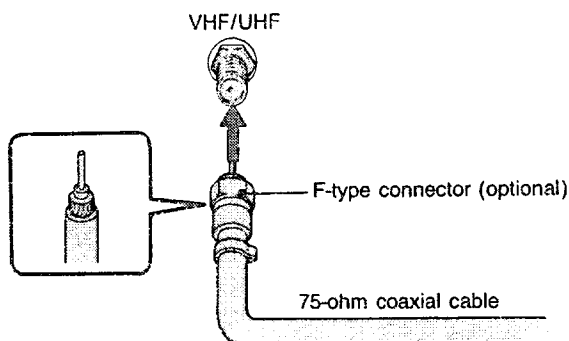
- 1 Set the FM tuner to the frequency designated by the broadcaster.
- 2 Operate the unit the same as in usual TV viewing.

# Antenna/Cable Connection

Using an outdoor antenna may be necessary. Cable TV reception is only possible by connecting a cable supplied by your local operator.

Prepare the antenna or cable end using the appropriate connector, and connect the antenna or cable to the antenna terminal of the unit. (See A, B, C or D below.)

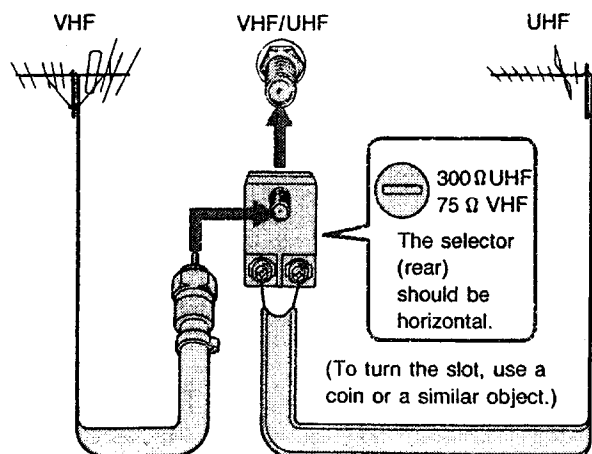
## A Combination VHF/UHF antenna,\* VHF antenna or CATV cable



\* Most combination antennas are equipped with a signal splitter. Take off the splitter and attach the proper connector.

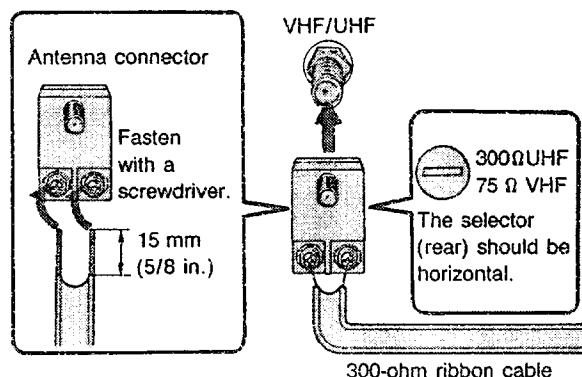
## B When both VHF and UHF antennas are connected

Prepare the VHF antenna end using the appropriate connector as illustrated in A. Attach the supplied antenna connector to the TV antenna terminal, and connect the cable to the connector. (For UHF, see C.)



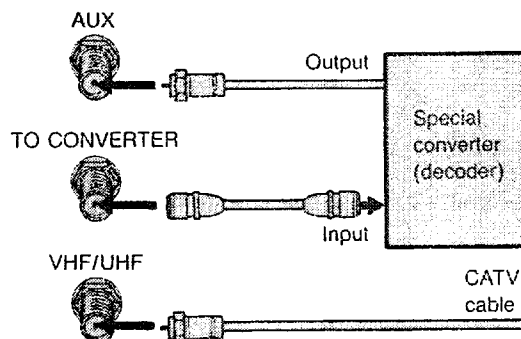
When the cable is connected to the TV in this way, snow and noise may appear in the pictures of the cable TV channels over 37 (W+1).

## C UHF antenna only



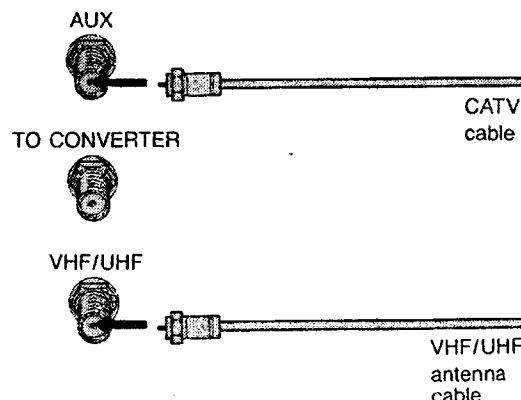
## D Cable with a special converter (decoder)

Pay cable TV systems use scrambled or encoded signals and require special converters (decoders)\* in addition to the normal cable connection. Connect the converter (decoder) with a 75-ohm coaxial cable (optional).



\* The special converter (decoder) will be supplied by the cable company.

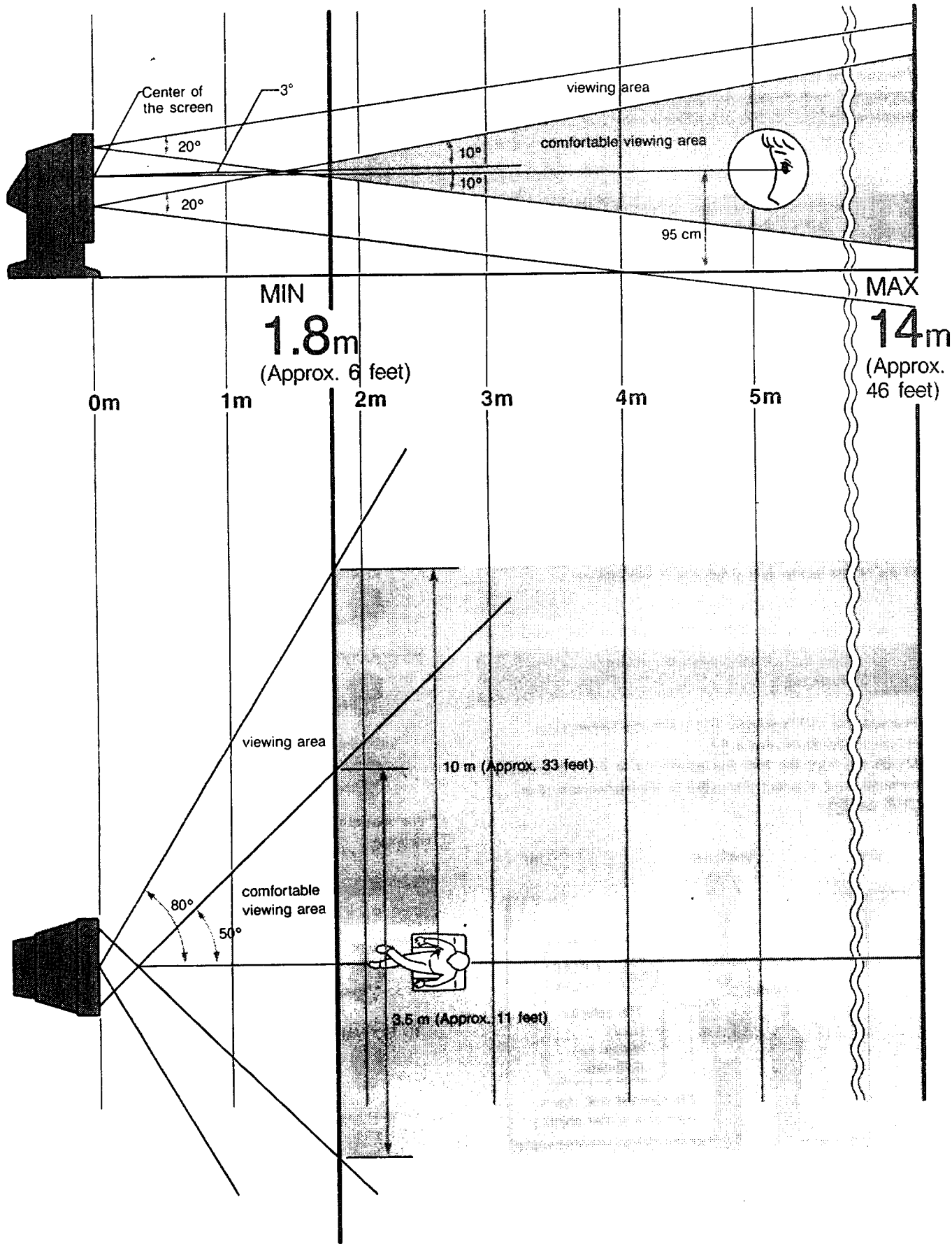
## E When both VHF/UHF antennas and a CATV cable are connected



### Note

In this case, do not connect anything to the TO CONVERTER terminal.

Notice on Audience Area





# Specifications

Structure	Screen and projector, rear projection type
Projection system	3-picture tubes, 3 lenses, horizontal in-line system
Picture tube	4 inch high-brightness monochrome tubes, with optical coupling and cooling system
Projection lenses	High-performance, large-diameter glass lens F 1.0
Screen material	Acrylic plastic, Fresnel, lenticular type
Projected picture size (measured diagonally)	41 inches
Resolution	500 lines
Viewing distance	1.8 m (approx. 6 ft) minimum to 14 m (approx. 46 ft) maximum
Optimum seating arrangement	Within approx. 80 degrees from center
Screen brightness	Typical 300 foot-Lamberts
Television system	American TV standards
Channel coverage	VHF: 2—13 UHF: 14—69 CATV: 1—125
Antenna	75-ohm external antenna terminal for VHF/UHF/CATV
Inputs	VIDEO 1, 2, 3 INPUT (phono jacks) Video: 1 Vp-p, 75 ohms unbalanced, sync negative Audio: 408 m Vrms (100% modulation, 47 kilohms) VIDEO 1 S VIDEO INPUT (4-pin mini DIN) Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms 75-ohm external antenna terminal for VHF/UHF/CATV AUX 75-ohm auxiliary antenna terminal
Outputs	MONITOR OUTPUT (phono jack) Video: 1 Vp-p, 75 ohms unbalanced, sync negative Audio: 408 m Vrms (100% modulation, 1 kilohm) TO CONVERTER terminal
Speaker	Two-way coaxial speaker system 13.5 cm (dia.)
Power requirements	120 V AC, 60 Hz
Power consumption	185 W (max.), 135 W (average), 4 W (in standby condition)
Dimensions	Approx. 893 × 1161 × 690 mm (w/h/d) (35 1/8 × 45 3/4 × 27 1/8 inches)
Weights	Approx. 57 kg (125 lb. 11 oz)

Accessories supplied	Rack (VIDEO CADDY™) (1) Remote Commander RM-736 (1) with 2 size AA batteries Antenna connector (1)
Optional accessories	Connecting cables (See page 12)
Design and specifications are subject to change without notice.	

# Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed below.

SYMPTOM		CHECK AND ADJUST
GENERAL	Poor or no picture (screen not lit), good sound	<ul style="list-style-type: none"> <li>• Adjust PICTURE.</li> <li>• Adjust BRIGHT with the ADJUSTMENT buttons.</li> <li>• Check antenna/cable connections.</li> </ul>
	Good picture, no sound	<ul style="list-style-type: none"> <li>• Press VOLUME +.</li> <li>• Release MUTING on the Remote Commander.</li> <li>• Check that the MTS button is set correctly.</li> <li>• Is the VIDEO 3/EXT-AUDIO selector set correctly?</li> <li>• Is the SPEAKER selector set to ON?</li> </ul>
	No picture (screen not lit), no sound	<ul style="list-style-type: none"> <li>• Is POWER switched on? Power in outlet?</li> <li>• Check that the TV/VIDEO button is set correctly.</li> </ul>
	No color	<ul style="list-style-type: none"> <li>• Is it a color program?</li> <li>• Adjust COLOR.</li> </ul>
	Snow and noise only	<ul style="list-style-type: none"> <li>• Is it an active or the correct channel?</li> <li>• Check the CABLE selector setting.</li> <li>• Check that the ANT/AUX button is set correctly.</li> <li>• Check antenna connections.</li> </ul>
	 Dotted lines or stripes	This is often caused by local interference. (ex. cars, neon signs, hair-dryers etc.) Adjust antenna for minimum interference.
	 Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. A highly directional outdoor antenna or CATV cable may improve the picture.
Try another channel. It could be station trouble.		

SYMPTOM		CHECK AND ADJUST
CONNECTED EQUIPMENT	No picture and/or sound for the connected equipment	<ul style="list-style-type: none"> <li>• Check that the TV/VIDEO button is set correctly.</li> <li>• Are the connections made firmly?</li> <li>• Check that the VIDEO 3/EXT-AUDIO selector is set correctly.</li> <li>• Is the power of the connected equipment turn on?</li> <li>• Is the connected equipment set correctly?</li> </ul>

If the problem still cannot be solved, contact your nearest service facility.