

Panasonic[®]

just slightly ahead of our time[®]

Operating Instructions

CT-1387VYD

CT-2087VYD

CT-2787VYD

IMPORTANT INFORMATION

Notice from the FCC:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Important:

Changes or modification not expressly approved by Matsushita Television Company, Inc. could void the user's authority to operate the equipment.

FEATURE CHART

MODELS	CT-1387VYD	CT-2087VYD	CT-2787VYD
FEATURES			
Trilingual menu E/S/F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181 Channels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Closed Captioning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
V-Chip Program Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote (TV only)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control Panel Lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Auto Power On Menu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bass/Balance/Treble			<input type="checkbox"/>
Stereo			<input type="checkbox"/>
Variable Audio Out			<input type="checkbox"/>
Fixed Audio Out			<input type="checkbox"/>
AI sound			<input type="checkbox"/>
Surround Sound			<input type="checkbox"/>
Earphone jack	<input type="checkbox"/>		

CONGRATULATIONS

Your new TV Monitor/Receiver features a solid state chassis that is designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

Customer Record

The model and serial number of this product may be found on the back of the unit. You should note the model and serial number in the space provided and retain as a permanent record of your purchase. This will aid in identification in the event of theft or loss.

Product registration is available for U.S. customers at:

www.prodreg.com/panasonic

Model Number	
Serial Number	

Care and Cleaning

Screen (Turn TV Off)

- Use a mild soap solution or window cleaner with a soft clean cloth. **DO NOT USE ABRASIVE CLEANERS.**
- Avoid excessive moisture and wipe dry.

Cabinet and Remote Control

- Use a soft cloth dampened with water or a mild detergent solution. Do not use benzene, thinner, or other petroleum based cleaners.
- Wipe dry with a soft clean cloth. Avoid excessive moisture.

Specifications

Power Source CT-1387VYD , CT-2087VYD, CT-2787VYD	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-113
1 Video Input Jack (CT-2787VYD) 3 Video Input Jacks (CT-1387VYD and CT-2087VYD)	1V _{p-p} , 75 Ohm, BNC Jack Type
1 (set) Audio Input Jack (CT-2787VYD) 3 Audio Input Jacks (CT-1387VYD and CT-2087VYD)	500mV RMS 47K Ohm Phono Jack Type
1 Video Output Jack (CT-2787VYD) 3 Video Output Jacks (CT-1387VYD and CT-2087VYD)	BNC Jack Type
1 (set) Audio Output Jack (CT-2787VYD) 3 Audio Output Jacks (CT-1387VYD and CT-2087VYD)	Phono Jack Type
Video Monitor Output Jack	BNC Jack Type
Audio Monitor Output Jack	Phono Jack Type
S-Video In/Out Jacks	Y-C Connector
Earphone Jack (CT-1387VYD)	1/8" mini plug Type

Specifications are subject to change without notice or obligation.

INSTALLATION

Television Location

This unit is intended to be used with an entertainment center. Consult your dealer for available options.

- Avoid excessive sunlight or bright lights, including reflections.
- Keep away from excessive heat or moisture. Inadequate ventilation may cause internal component failure.
- Fluorescent lighting may reduce Remote Control transmitting range.
- Avoid magnetic equipment, including motors, fans, or external speakers.

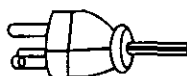
Optional Cable Connections

Shielded audio and video cables should be used between components. For best results:

- Use 75-ohm coaxial shielded cables.
- Use appropriate input and output connectors that match your component connectors.
- Avoid long cables to minimize interference.

AC Power Supply Cord

CAUTION: MAKE SURE PLUG IS INSERTED FULLY INTO RECEPTACLE.



3 Wire Ground plug

This product is equipped with a three-wire ground type plug - a plug with two blades and a third pin which is round. This plug will only fit into a grounding type outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. **DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDING TYPE PLUG.**

Batteries

- Replace batteries in pairs.
- Do not mix battery types (zinc carbon with alkaline).
- Do not recharge, short-circuit, disassemble, heat, or burn used batteries.

Cable / Antenna

For proper reception, either a cable or antenna connection are required.

Cable Connection

Connect the cable supplied by your local cable company.

Incoming Cable from Cable Company




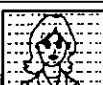



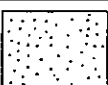














75 Ohms VHF/UHF
on back of TV

Note: A cable converter box may be required for proper reception. Check with your local Cable company for compatibility requirements.

TROUBLESHOOTING CHART

Before you call for service, determine the symptoms and make a few simple checks shown below.

<i>AUDIO</i>	<i>VIDEO</i>	<i>Solutions</i>
 Noisy Sound	 Snowy Video	<ul style="list-style-type: none"> - Input Connectors Seated Properly - Equipment Connected to Input Connections - Antenna Location and/or Connection
 Noisy Sound	 Interference	<ul style="list-style-type: none"> - Electrical Appliances, Lights, Cars, and Trucks - Diathermy and Medical Equipment - Video Input Connector Seated Properly - Increase Volume
 No Sound	 Normal Picture	<ul style="list-style-type: none"> - Check Mute - Check TV SPEAKERS on/off - Change Channel - Audio Input Connector Seated Properly
 No Sound	 No Picture	<ul style="list-style-type: none"> - Set TV or Cable Mode Properly - Check Antenna Cables
 No Sound	 No Picture	<ul style="list-style-type: none"> - Check Power Cord is Plugged into Active Outlet - Adjust Brightness and Audio Controls - Change Channel - Check Cable Connections - Program the Remote Control Again - Check Second Video Source Operation
 Normal Sound	 No Color	<ul style="list-style-type: none"> - Adjust Color Settings - Change Channel
 Wrong Sound	 Normal Picture	<ul style="list-style-type: none"> - Check Audio is set to Stereo or Mono, not SAP (If Applicable)
 No Sound	 Black Picture	<ul style="list-style-type: none"> - Monitor/Receiver in Video Mode with no signal
 Normal Sound	 Black Box on Screen	<ul style="list-style-type: none"> - Change CC (Closed Captioning) from Text Mode
 Normal Sound Intermittent Remote Control Operation	 Normal Picture	<ul style="list-style-type: none"> - Replace Remote Control Batteries

Cable / Antenna Cont.

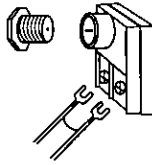
Antenna Connection

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended.
- Antenna Mode must be set to TV.

VHF/UHF Antenna

A VHF/UHF antenna and transformer are supplied in some models. Attach to the TV, adjust the antenna until the picture is clear. (See Antenna Connection).

Incoming Cable from Home Antenna



Note: Cable mode is preset at the factory. Antenna users must change to antenna mode in Set Up menu.

OPTIONAL EQUIPMENT CONNECTION

Video/Audio In & Out Connection

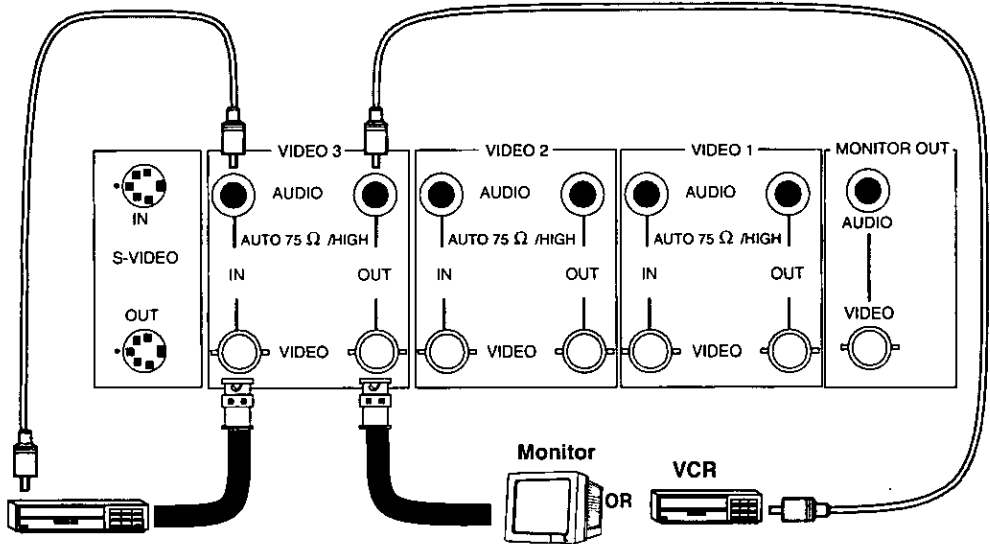
CT-1387VYD & CT-2087VYD

The IN and OUT terminals located on the back of Monitor directly pass the input signals through the out terminals, so you may monitor or record the external Video/Audio information.

Operation

1. Connect an external Video/Audio source to VIDEO 1, VIDEO 2 or VIDEO 3 IN terminals, as shown.
2. Select the same video mode that the equipment is connected to, by pressing the TV/VIDEO or VIDEO SELECT button.
3. Connect a Monitor or VCR to the Video/Audio out terminals as shown. The out terminals will provide the same signals as the input terminals for monitoring or recording.

Note: Video/Audio 1, 2 and 3 input and output terminals will operate whether the Monitor is ON or OFF.



External Audio/Video Equipment

SPECIAL FEATURES

Languages



In SET UP menu, select ENGLISH, ESPAÑOL, OR FRANÇAIS.

SET-UP	
SET TIME	___ : __ AM
ANT	CABLE
AUTO PROG	NO
MANUAL PROG	NO
AUTO POWER ON	OFF
<input checked="" type="checkbox"/> MODE	OFF
ENGLISH ESPAÑOL FRANÇAIS	

Timer



Sleep Timer

In TIMER menu, program to turn TV OFF in 30, 60, or 90 minutes. Select NO to turn off timer.

TIMER CONTROL	
SLEEP TIMER	NO
PROGRAM TIMER	
ON	___ : __
OFF	___ : __
CHANNEL	3
SET	TIME FIRST

Program Timer

In Timer menu, program TV to automatically turn on and off at selected time on a selected channel, daily or one day.

TIMER CONTROL	
SLEEP TIMER	NO
PROGRAM TIMER	
ON	___ : __
OFF	___ : __
CHANNEL	3
SET	TIME FIRST

Note: TIME must be entered in the SET UP menu to operate PROGRAM TIMER.

Helpful Hints: PROGRAM TIMER Activation

The PROGRAM TIMER is active when the TV is OFF or ON. The TV will switch to the selected channel at the selected time set by the PROGRAM TIMER.

Helpful Hints: Turn Off After 90 Minutes

The TV automatically turns OFF after 90 minutes when turned on by the PROGRAM TIMER. If the OFF time is programmed or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.

Channel Caption



Program channel captions (station labels) for 30 stations using up to four characters.

CHANNEL CAPTION	
ENTER CHANNEL NUMBER	
123	
ENTER CAPTION	
- - - -	
▲ TO MOVE	◀ TO SELECT
▼ CURSOR	CHANNEL

Note: Delete channel captions by entering dashes (-) in all four character slots.

LOCK



Game Guard Lock and Unlock

Select GAME GUARD to prevent video games and VCR's from being viewed for 12, 24, or 48 hours using a secret code.

Lock Channel 3, Channel 4, and video inputs for 12, 24, or 48 hours by entering a four digit secret code, then selecting GAME GUARD ON.

Note: Understand how to unlock GAME GUARD before using it. Use a code that is easy to remember or record it in a safe place.

Unlock GAME GUARD by reentering your four digit secret code, then selecting GAME GUARD OFF.

LOCK	
GAME GUARD	OFF
*MOTION PICT. STATUS	OFF
CHANGE SETTINGS	▶
*TV PARENTAL STATUS	OFF
CHANGE SETTINGS	▶
HOW LONG?	12 HRS
ENTER CODE FIRST	___ : __

Note: When GAME GUARD is ON, and if CH. 3 or CH. 4 is selected, the message GAME GUARD displays in the upper right corner of the TV screen.

Helpful Hints: GAME GUARD Unlock

If you do not remember your code, the LOCK will unlock in 12, 24, or 48 hours depending on last setup. Be cautious when selecting ALWAYS. If ALWAYS is selected and you forget your secret code, the TV must be serviced by a qualified technician in order to clear the LOCK options that are set.

* For more information about Motion Picture Status and TV Parental Status, see the V-CHIP Parental Lock manual provided with the TV package.

S-Video In & Out Connection

CT-1387VYD and CT-2087VYD

The S-Video IN and OUT terminals located on the back of Monitor directly pass the input signals through the out terminals, so you may monitor or record the external video/audio information.

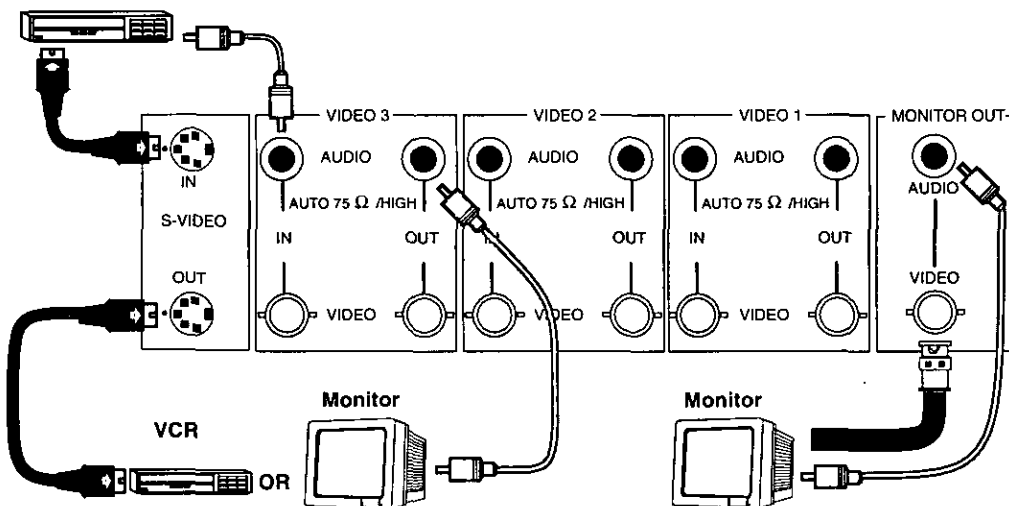
Notes:

- Only Video 3 audio in and out may be used with S-Video operation.
- Connection of optional S-Video jack will override the standard Video Input 3 BNC connector.
- S-Video IN and OUT terminals will operate whether the Monitor is ON or OFF.

Operation

1. Connect S.-VIDEO input to a external audio/video source as shown.
2. Connect video 3 audio in jack as shown.
3. Press the TV/VIDEO or VIDEO SELECT button to select video 3 mode.
4. Connect S -VIDEO out to a monitor or VCR as shown.
5. Connect video 3 audio out jack as shown.
6. The output terminals will provide the same signals as the input terminals for monitoring or recording.

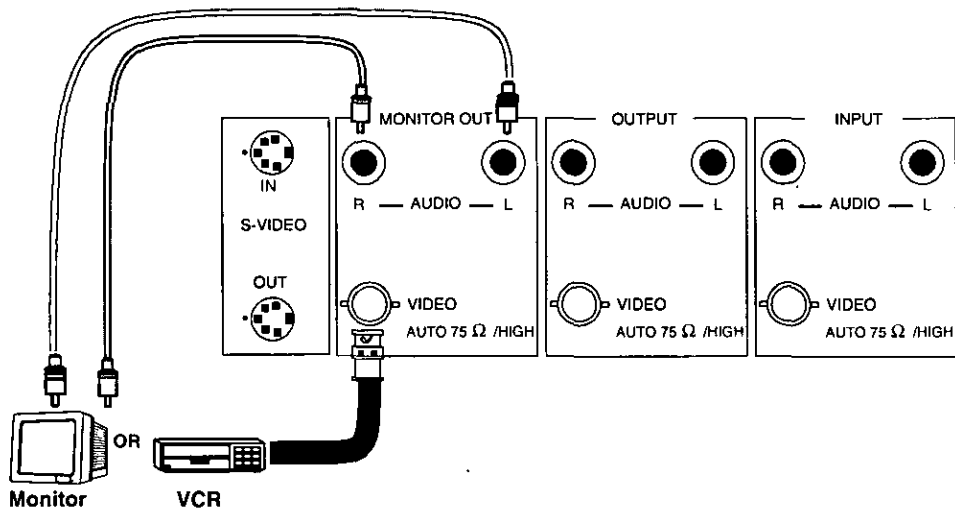
External Audio/Video Equipment




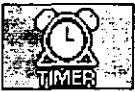


Monitor Out Connection

The Monitor out terminals will output video and audio signals being displayed onscreen. Connect the Monitor out terminals as shown above for models CT-1387VYD / CT-2087VYD, and as shown below for model CT-2787VYD.

Note: The Monitor out terminals only operate when the monitor is on.



MAIN MENU FEATURE CHART CONT.

<i>MENU</i>	<i>DESCRIPTION</i>
MODE	Select the audio mode: <input type="checkbox"/> STEREO - Two channel audio reception. <input type="checkbox"/> SAP - (Second Audio Program) Tune to the alternate audio channel if available in your area (bilingual or descriptive audio). <input type="checkbox"/> MONO - One channel audio. Use when stereo signal is weak.
AI SOUND	Equalize overall volume levels across all channels. (AI sound is not available in VIDEO mode.)
SURROUND	Enhances audio response when listing to stereo.
TV SPEAKERS	Select TV SPEAKERS: <input type="checkbox"/> ON - TV SPEAKERS operate normally. <input type="checkbox"/> OFF&VAO (Variable Audio Output) - TV SPEAKERS OFF, sound is adjustable from TV. <input type="checkbox"/> OFF&FAO (Fixed Audio Output) - TV SPEAKERS OFF, sound is adjustable from External Amplifier.
	CH CAP
CHANNEL CAPTION	Provide labels for up to 30 stations using up to four characters for each station.
	TIMER
SLEEP TIMER	Set timer to turn off television in 30, 60 or 90 minutes. Select NO to turn timer off.
PROGRAM TIMER	Program TV to automatically turn on and off at selected time on a selected channel, daily or only one day.
	PICTURE
PICTURE NORM	Reset all picture adjustments to factory default settings.
COLOR	Adjust desired color intensity.
TINT	Adjust natural flesh tones.
BRIGHTNESS	Adjust dark areas for crisp detail.
PICTURE	Adjust white areas of picture.
SHARPNESS	Adjust clarity of outline detail.
	LOCK
GAME GUARD	Program to prevent video games and VCR's from being viewed. Note: For information about Motion Picture Status and TV Parental Status, see the V-CHIP Parental Lock manual provided with the TV package.

Video/Audio In & Out Connection

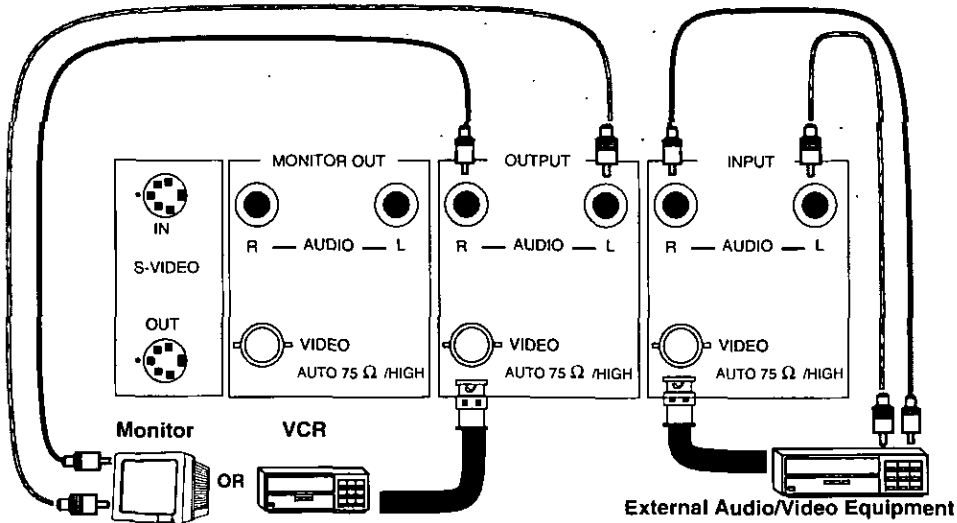
CT-2787VYD

The IN and OUT terminals located on the back of Monitor directly pass the input signals through the out terminals, so you may monitor or record the external video/audio information.

Operation

1. Connect an external video/audio source to the Monitor video/audio input terminals as shown.
2. Select video mode by pressing the TV/VIDEO button.
3. Connect an external video/audio source (Monitor or VCR) to the video/audio output terminals as shown.
4. The output terminals will provide the same signals as the input terminals for monitoring or recording.

Note: Video/Audio IN and OUT terminals will operate whether the Monitor is ON or OFF.



S-Video In & Out Connection

CT-2787VYD

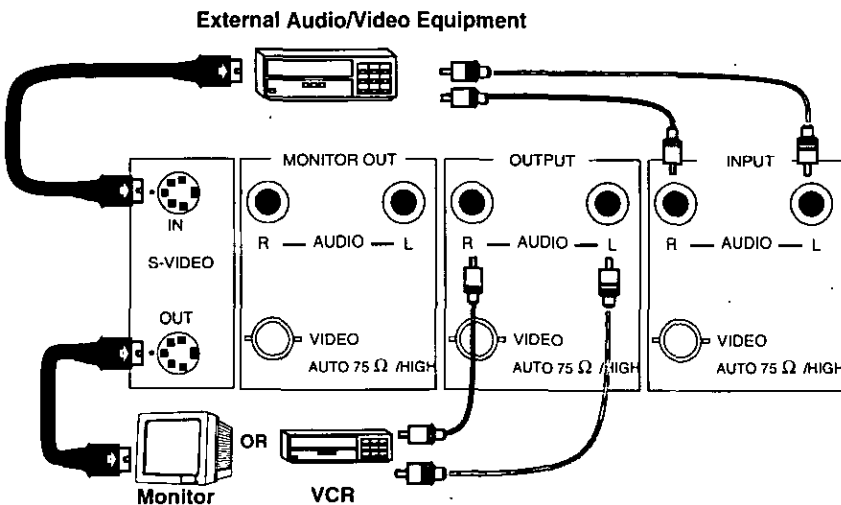
The IN and OUT terminals located on the back of Monitor directly pass the input signals through the out terminals, so you may monitor or record the external video/audio information.

Note: Video/Audio IN and OUT terminals will operate whether the Monitor is ON or OFF.

- S-Video connection is optional and overrides the standard Video connection when connected.

Operation

1. Connect an external video/audio source to the Monitor Input terminals as shown.
2. Select video mode by pressing the TV/VIDEO button.
3. Connect audio output to external video/audio source (Monitor or VCR) terminals as shown.
4. The output terminals will provide the same signals as the input terminals for monitoring or recording.



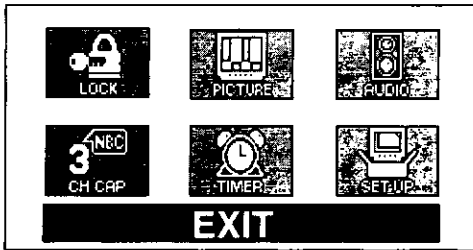
MAIN MENU

ACTION Button

Press the **ACTION** button to display the Main Menu and Sub Menus. Press the **ACTION** button repeatedly to exit.

Note: Models CT-1387VVD and CT-2087VVD will not display AUDIO icon in the Main Menu.

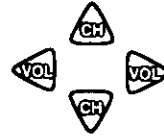
Main Menu



CH / VOL Buttons

Press the **CH** (channel) or **VOL** (volume) buttons to select an icon. Use the CH buttons to highlight the desired features. Use VOL buttons to select and adjust features.



Remote Navigation Buttons



Remote Control

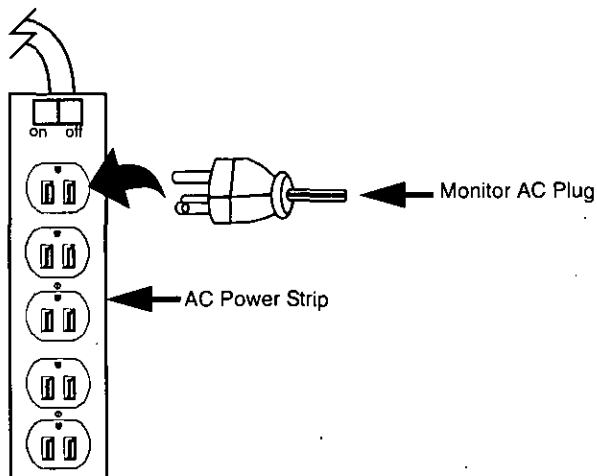
The Remote Control Quick Reference Guide is located in the package provided with the TV.

MAIN MENU FEATURE CHART

MENU	DESCRIPTION
	SET UP
SET TIME	When entered, TIME will display on screen after pressing POWER button, RECALL button, or changing channels.
ANTENNA	Choose CABLE or TV to match the signal at your antenna input.
AUTO PROG	Automatically program channels having a signal into memory.
MANUAL PROG	Manually add or delete channels from memory.
AUTO POWER ON	Automatically turns the unit ON when AC power is supplied. Note: When this feature is activated (on), the Timer features will be disabled.
CC MODE	Closed Captioning displays when pressing the MUTE button or selecting ON.
ENGLISH ESPAÑOL FRANÇAIS	Select English, Spanish, or French menu language.
	AUDIO (CT-2787VVD ONLY)
AUDIO NORM	Reset BASS, TREBLE, and BALANCE to factory default.
BASS	To increase or decrease the bass response.
TREBLE	To increase or decrease the treble response.
BALANCE	Emphasize the left/right speaker volume.

AUTO POWER ON FEATURE

This Monitor has an Auto Power On feature which automatically turns the unit ON when AC power is supplied. This feature initiates the Monitor to turn On automatically when using it with other equipment to a main power switch. (Such as: AC power strip or when plugged directly into the back of another video equipment.) Once the initial power has been supplied and the Monitor turns ON, the POWER switch located on the front of the Monitor may be used to turn the Monitor OFF and ON as desired.



Procedure

1. Press Action button.
2. Press CH ▲/▼ and VOL ◀/▶ buttons to highlight the Set-up Icon.
3. Press Action button to display Set-up sub menu:

SET-UP	
SET TIME	_ : _ AM
ANT	CABLE
AUTO PROG	NO
MANUAL PROG	NO
AUTO POWER ON	OFF
MODE	OFF
ENGLISH ESPAÑOL FRANÇAIS	

4. Press ▼ button to highlight AUTO POWER ON.
5. Press ◀/▶ button to select ON or OFF.
6. Press ACTION button twice to exit.

Note: When this feature is activated (on), the Timer features will be disabled.

CONTROL PANEL LOCK FEATURE

Procedure

With the Monitor turned on, press the ACTION and VOL RIGHT (▶) buttons on the control panel simultaneously, then **quickly** press the ACTION and UP (▲) buttons simultaneously. This will activate the Keyboard Lock feature. To deactivate repeat procedure.

Note: There will be no onscreen display.

To confirm if the Control Panel Lock feature is activated, press any button other than the POWER button (the Power button is never disabled).

Panasonic®

BROADCAST AND TELEVISION SYSTEMS

PANASONIC BROADCAST AND TELEVISION SYSTEMS COMPANY
Division of Matsushita Electric Corporation of America
3330 Cahuenga Boulevard West, Los Angeles, CA 90068

	WARNING	
RISK OF ELECTRIC SHOCK DO NOT OPEN		
WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.		



The lightning flash with arrow head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Read these instructions completely before operating TV.
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