

Panasonic[®]

Color Television Operating Instructions

CT-27G33

CT-32G33

CT-36G33



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CONGRATULATIONS
Congratulations

Your new TV 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 are located on the back of the TV. 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 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

- For plastic cabinets and Remote Control, use a soft cloth dampened with water or a mild detergent solution. Avoid excessive moisture and wipe dry.
- For wooden cabinets, use a soft cloth and an occasional coat of furniture polish to preserve the finish.
- Do not use benzene, thinner or other petroleum based products.

Specifications

Power Source CT-27G33 CT-32G33 CT-36G33	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-113
2 Video Input Jacks	1Vp-p, 75 Ohm, Phono Jack Type
2 Audio Input Jacks	500mV RMS 47K Ohm
To Audio AMP Jack	0-2.0V RMS 4.7K Ohm
S-VHS Input Jack	S-Video (Y-C) Connector

Specifications are subject to change without notice or obligation.

Installation

Television Location

This unit is intended to be used with an optional stand or 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.

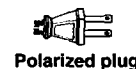
Optional Cable Connections

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

- Use 75-ohm coaxial shielded cables.
- Check type of output and input connectors on your components.
- Determine required cable lengths.

AC Power Supply Cord

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE A PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. FOR SOME MODELS THAT ARE NON-POLARIZED, THE USE OF AN AC ADAPTOR CONNECTOR MAY BE NECESSARY.



Polarized plug

Cable / Antenna

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

Cable Connection

Connect the cable supplied by your local cable company.

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

Incoming Cable from Cable Company

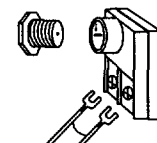


75 Ohm VHF/UHF on back of TV

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 in the SET UP menu.

Incoming Cable from Home Antenna



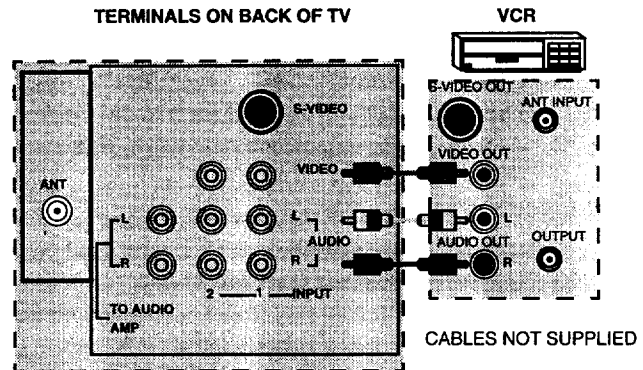
Cable Preset

Cable Mode is preset at the factory. Antenna users must change to Antenna Mode in the Set Up Menu.

INSTALLATION

Optional Equipment Connections

VCR's, video disc players, video game consoles, and DSS equipment can also be connected to the video inputs. See the optional equipment manual for details.



Procedure

1. Connect equipment as shown to rear Audio/Video input jacks.
2. Select the Video mode by pressing **TV/VIDEO** button.
3. Operate optional equipment as instructed in equipment manual.

Note: The S-VIDEO connection is optional and overrides other VIDEO connection. Use INPUT 1, AUDIO R and L with S-VIDEO connection.

TO AUDIO AMPLIFIER

Connect to an external audio amplifier input for listening to a stereo system.

Note: TO AUDIO AMP terminals cannot be connected directly to external speakers.

Audio Adjustments

1. Select TV SPEAKERS ON located in the AUDIO menu on screen.
2. Set amplifier volume to minimum.
3. Adjust TV volume to desired level.
4. Adjust amplifier volume to match the TV.
5. Select TV SPEAKERS OFF&VAO from AUDIO menu.
6. Volume, mute, bass, treble and balance are now controlled from the TV.

Note: In OFF&FAO the volume is controlled by the external amplifier.

Picture In Picture (PIP) Operation

With / Without A VCR And Cable Box

This television includes a two tuner Picture In Picture (PIP) feature. This allows watching two (2) live broadcasts at the same time without or with an external video source (VCR).

Without A VCR (External Video Source)

Procedure

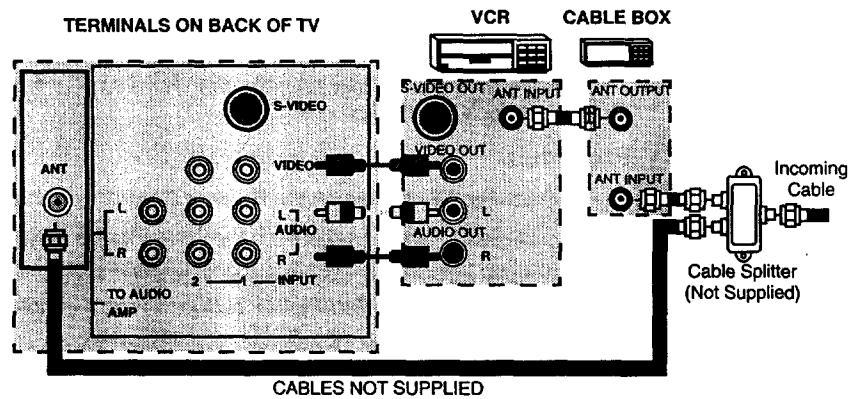
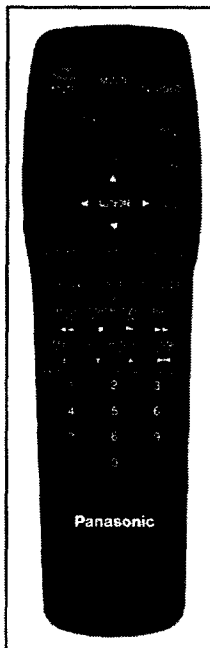
- Connect incoming cable to antenna (ANT) input on back of TV.
- Press the **PIP** button on the Remote Control to display the PIP frame.

Note: *The audio is for the Main Picture, only.*

- Choose channels for the *PIP* frame by pressing the Remote Control **PIP CHANNEL** up/down buttons.
- Choose channels for the *Main Picture* by pressing the Remote Control **CH** up/down buttons or by using the numeric keypad.

With A VCR (External Video Source) And Cable Box

Connect your television to a VCR and Cable Box, as shown.



Note: *The Remote Control must be programmed with supplied codes to operate the VCR and Cable Box. See Programming the Remote Control in the Remote Control Quick Reference Guide.*

Procedure

Press the **PIP** button on the Remote Control to display the PIP frame.

Note: *The audio is from the Main Picture only.*

To view scrambled channels through your Cable Box in the PIP frame:

- Press the **TV/VIDEO** button on the Remote Control to select the same video input which your cable box is connected to.
- Verify the **CABLE BOX** and **VCR** are **ON** and the **VCR** tuned to channel 3.
- Choose channels for the *PIP* frame by pressing the **CBL** button on the Remote Control and using the numeric keypad or **CH** up/down buttons.
- Choose channels for the *Main Picture* by pressing the **TV** button on the Remote Control and using the numeric keypad or **CH** up/down buttons.

Note: *The SWAP button switches the PIP and Main Picture source. Press the RECALL button for PIP and Main Picture source status, on screen.*

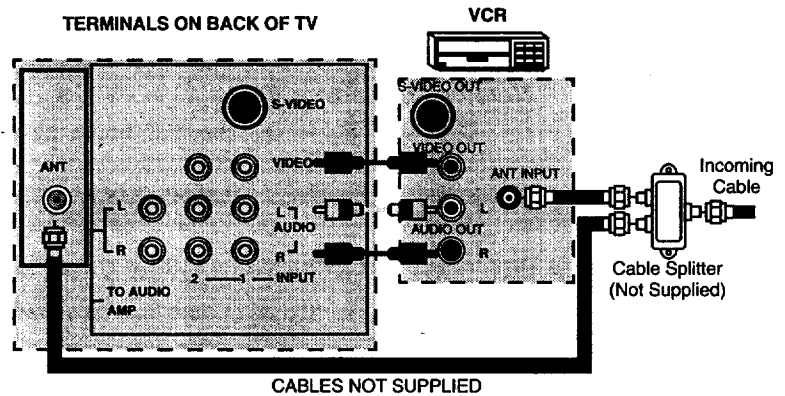
PICTURE IN PICTURE (PIP) OPERATION (CONT.)

Picture In Picture (PIP) Operation (Cont.)

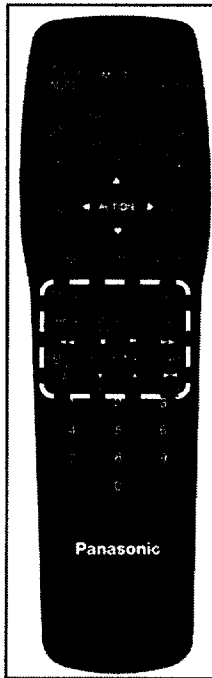
With a VCR - No Cable Box

This television includes a two tuner Picture In Picture (PIP) feature. This allows watching two (2) live broadcasts at the same time without or with an external video source (VCR).

Connect your television to a VCR, as shown.



Note: The Remote Control must be programmed with the supplied codes to operate the VCR. See Programming the Remote Control in the **Remote Control Quick Reference Guide**.



Procedure

Press the **PIP** button on the Remote Control to display the PIP frame on screen.

Note: The audio is from the Main Picture only.

To view an external video source in the PIP frame:

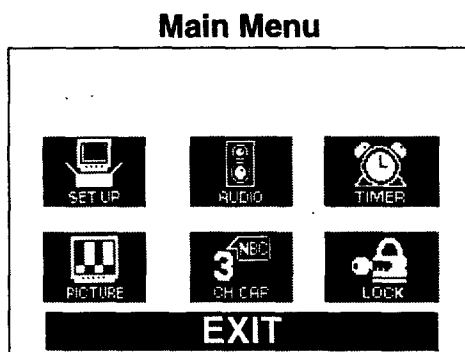
- Press the **TV/VIDEO** button on the Remote Control to select the same video input which your **VCR** is connected to.
- Verify the VCR is on.
- Choose channels for the *Main Picture* by pressing the **TV** button on the Remote Control and using the numeric keypad or **CH** up/down button.
- Choose channels for the PIP frame by pressing the **TV** button on the Remote Control and using the **PIP Channel** up/down buttons



SWAP and RECALL Buttons

The **SWAP** button switches the PIP and Main Picture source. Press the **RECALL** button for PIP and Main Picture source status, on screen.

Main Menu



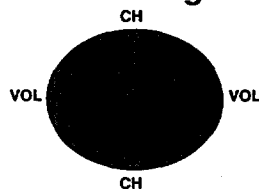
ACTION Button

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

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 Action / Navigation Buttons








Remote Control

The **Remote Control Quick Reference Guide** is located within the package provided with this TV.

Main Menu Feature Chart

<i>MENU</i>	<i>DESCRIPTION</i>
	SET UP
SET TIME	When entered, TIME will display on screen after pressing POWER button, RECALL button, or changing channels.
ANT	Choose CABLE or TV to match the signal at your antenna input.
AUTO PROG	Automatically program channels with a signal into memory.
MANUAL PROG	Manually add or delete channels from memory.
AUTO POWER ON	Power up the TV at the same time as the Cable Box or other components.
CC MODE	Select C1 or C2 for Closed Captioning display. Select OFF to display closed captioning when MUTE button is pressed.
LANGUAGES	Select English, Spanish, or French menu.
GEOMAGNETIC CORR (Some Models)	Adjustment may be required for geomagnetic fields in the area.
	AUDIO
AUDIO NORM	Reset BASS, TREBLE and BALANCE to factory default.
BASS	Increase or decrease the bass response.
TREBLE	Increase or decrease the treble response.
BALANCE	Emphasize the left/right speaker volume.
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	Automatically maintain constant volume between programs and commercials.
SURROUND	Enhances audio response when listening to stereo.

Main Menu Feature Chart (Cont.)

MENU	DESCRIPTION
	AUDIO
<p style="text-align: center;">TV SPEAKERS</p>	<p>Select TV SPEAKERS:</p> <ul style="list-style-type: none"> <input type="checkbox"/> ON - TV SPEAKERS operate normally. <input type="checkbox"/> OFF&VAO (Variable Audio Output) - TV Speakers off — audio adjustable by TV. <input type="checkbox"/> OFF&FAO (Fixed Audio Output) - TV SPEAKERS off — audio adjustable only by the external amplifier.
	TIMER
<p style="text-align: center;">SLEEP TIMER</p>	<p>Program TV to automatically turn off in 30, 60, or 90 minutes. Select NO to turn timer off.</p>
<p style="text-align: center;">PROGRAM TIMER</p>	<p>Program TV to automatically turn on and off at selected time on a selected channel, daily or only one day.</p>
	PICTURE
<p style="text-align: center;">PICTURE NORM</p>	<p>Reset all picture adjustments to factory default settings.</p>
<p style="text-align: center;">COLOR</p>	<p>Adjust desired color intensity.</p>
<p style="text-align: center;">TINT</p>	<p>Adjust natural flesh tones.</p>
<p style="text-align: center;">BRIGHTNESS</p>	<p>Adjust dark areas for crisp detail.</p>
<p style="text-align: center;">PICTURE</p>	<p>Adjust white areas of picture.</p>
<p style="text-align: center;">SHARPNESS</p>	<p>Adjust clarity of outline detail.</p>
	CH CAP
<p style="text-align: center;">CHANNEL CAPTION</p>	<p>Provide labels for up to 30 stations using up to four characters for each station.</p>
	LOCK
<p style="text-align: center;">GAME GUARD</p>	<p>Program to prevent video games, cable box, and VCR's from being viewed.</p>


SPECIAL FEATURES

Special Features

Languages

In SET UP menu, select ENGLISH, ESPAÑOL, or FRANÇAIS to change the menu language.


(menu may vary)

SET-UP		
SET TIME	00 : 00	PM
ANT	CABLE	
AUTO PROG	NO	
MANUAL PROG	NO	
AUTO POWER ON	OFF	
 MODE	OFF	
GEOMAGNETIC CORR NO		

Geomagnetic Corr (Correction) (some models)

In SET-UP menu, select GEOMAGNETIC CORR to adjust discoloration due to the geomagnetic field in the area. Use the Remote Control navigation keys to adjust the tilt bar parallel to the bottom of the picture frame.

(menu may vary)

SET-UP		
SET TIME	00 : 00	PM
ANT	CABLE	
AUTO PROG	NO	
MANUAL PROG	NO	
AUTO POWER ON	OFF	
 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		
PROGRAM TIMER		
ON	12 : 00 PM	
OFF	12 : 00 AM	
CHANNEL	3	
SET	TIME FIRST	


Note: Timer features are unavailable when AUTO POWER is on.

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
ON	12: 00 PM
OFF	12: 00 AM
CHANNEL	3
SET	TIME FIRST

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


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.

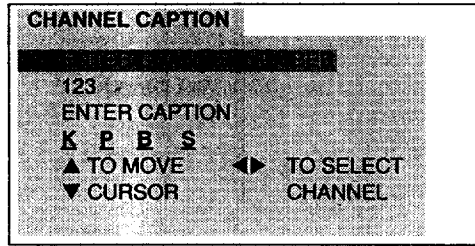

PROGRAM TIMER Activation

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.

CH CAP (Channel Caption)



Program channel captions (station labels) for 30 stations using up to four characters. Use the numeric keypad for entering numbers unavailable with the select arrows.



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

LOCK

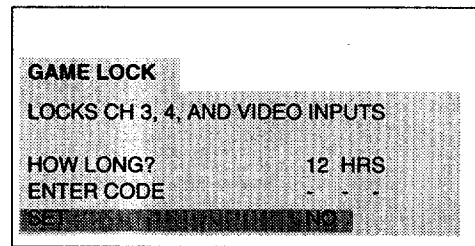


Game Guard Lock

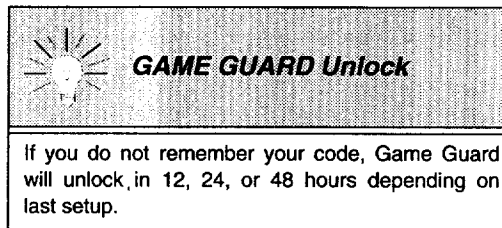
In LOCK menu, use to prevent video games and VCR tapes from being viewed for 12, 24, or 48 hours using a secret code.

Lock Channel 3, Channel 4, and video inputs for 12, 24, or 48 hours by entering a three-digit secret code using the numeric keypad.

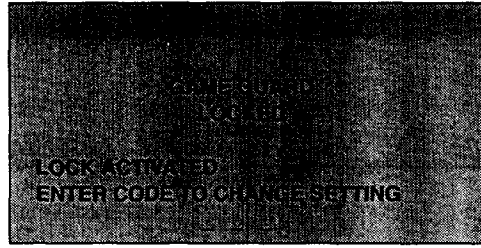
Unlock GAME GUARD by re-entering the same three-digit secret code.



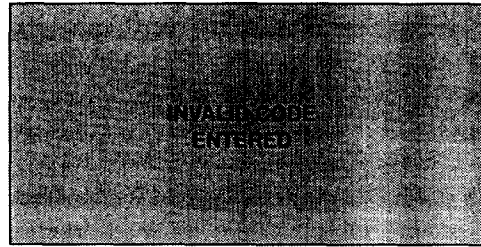
Note: Understand how to unlock GAME GUARD before using it. Use a code that is easy to remember or record it in a safe place.



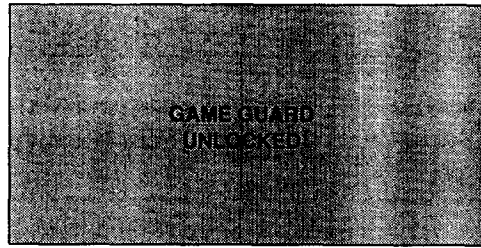
Unlocking Game Guard



Enter the same three-digit code.












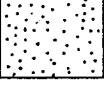





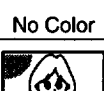

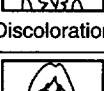

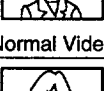
If the three-digit code is not the same as entered previously.



If the same three-digit code is used.

TROUBLESHOOTING CHART
Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

AUDIO	VIDEO	Solutions
 Noisy Audio	 Snowy Video	Adjust Antenna Location and Connection
 Noisy Audio	 Multiple Image	Adjust Antenna Location and Connection Check Antenna Lead-in Wire
 Noisy Audio	 Interference	Move TV from Electrical Appliances, Lights, Vehicles, and Medical Equipment
 No Audio	 Normal Video	Increase Volume Check Mute Check TV SPEAKERS on/off Change Channel
 Noisy Audio	 No Video	Set TV or Cable Mode Properly Check Antenna Cables
 No Audio	 No Video/No PIP	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 Audio	 No Color	Adjust Color Settings Change Channel
 Normal Audio	 Discoloration	Adjust Geomagnetic Corr (Correction) in the SET-UP menu (some models)
 Wrong Audio	 Normal Video	Check Audio Is Set To Stereo Or Mono, Not SAP
 Normal Audio	 Normal Video	Replace Remote Control Batteries
Intermittent Remote Control Operation		

**Read these instructions completely before operating TV.
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