

Panasonic®

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Operating Instructions Instrucciones de Operación

CT-13R4

CT-13R30

CT-13R40

CT-20G4

CT-20G14

CT-20G24

CT-20G34

CT-20R16

CT-2013S

CT-Z1417

CT-Z2117

CT-Z2137

CT-G2157

CT-Z1417X

CT-21G14X

CT-21R16X

CT-Z2117X

CT-Z2137X

CT-G2157X

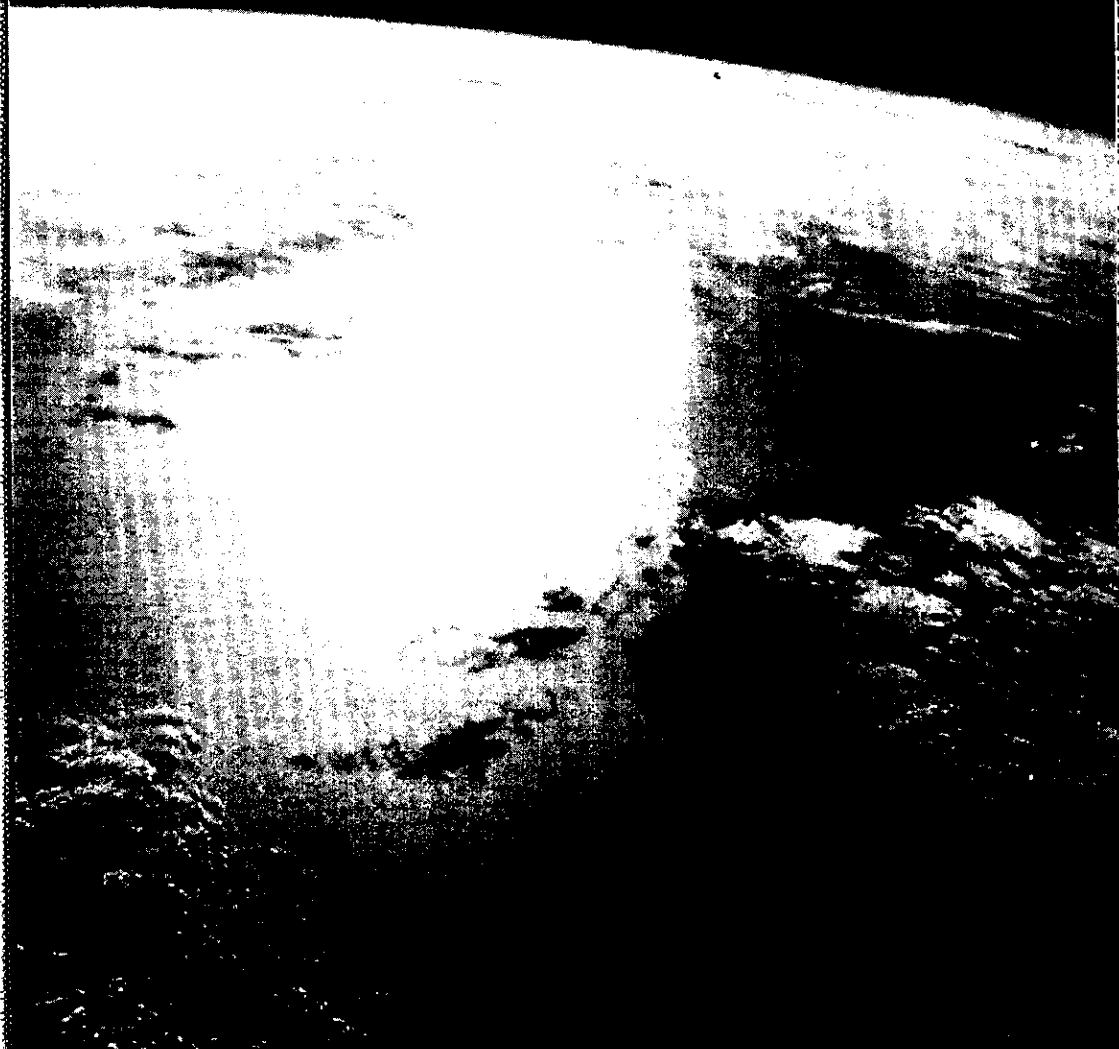
CT-Z1427L

CT-Z2127L

CT-Z2147L

CT-G2167L

CONGRATULATIONS • CARE AND CLEANING • SPECIFICATIONS • INSTALLATION • CABLE/ANTENNA • VHF/UHF ANTENNA • OPTIONAL EQUIPMENT CONNECTIONS •
MAINTENANCE • REMOTE CONTROL • SPECIAL FEATURES • LANGUAGES • TUNING • CHANNEL LISTING



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-13R4 CT-13R30 CT-13R40 CT-20G4 CT-20G14	CT-20G24 CT-20G34 CT-20R16 CT-2013S	120V AC, 60Hz
CT-Z1427Z CT-Z2127Z	CT-Z2147Z	Auto (110Vca- 220Vca); 50/60Hz
Channel Capability - 181		VHF-12; UHF-56; Cable-113
Video Input Jacks (some models)		1V _{p-p} , 75 Ohm, Phono Jack Type
Audio Input Jacks (some models)		500mV RMS 47K Ohm
To Audio AMP Jack (some models)		0-2.0V RMS 4.7K Ohm

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

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



Non-Polarized 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.

MAIN MENU • REMOTE CONTROL • SPECIAL FEATURES • LANGUAGES • TUNER • CHANNEL CATEGORY • CONGRATULATIONS • CARE AND CLEANING • SPECIFICATIONS • INSTALLATION • CABLE/ANTENNA • VHF/UHF ANTENNA • OPTIONAL EQUIPMENT CONNECTIONS

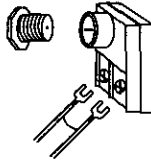
Antenna Connection

- 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



Helpful Hints: Cable Preset

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

Optional Equipment Connections

VCR's, video disc players, TV game consoles, and DSS equipment can also be connected to the antenna input connection. (See your equipment manual).

Procedure

1. Connect equipment as shown to front or rear Audio/Video input jacks.
Note: Front and rear Audio/Video connections cannot be operated at the same time.
2. Select the Video mode by pressing TV/VIDEO button.
3. Operate optional equipment as instructed in equipment manual.

To Audio Amplifier (AMP, some models)

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

Note: TO AUDIO AMP terminals cannot be used directly for external speakers.

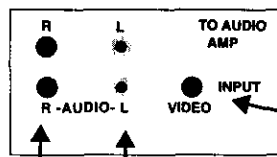
Audio Adjustments

1. Press TV SPEAKERS ON button located on back of set.
Note: If your TV does not have a TV SPEAKERS ON/OFF button, select TV SPEAKERS ON from AUDIO menu.
2. Set amplifier volume to minimum.
3. Adjust TV volume to desired level.
4. Adjust amplifier volume to match the TV.
5. Press TV SPEAKERS OFF button located on back of set.
Note: If your TV does not have a TV SPEAKERS ON/OFF button, select OFF&VAO from AUDIO menu.

6. Volume and mute are now selected using the TV controls.

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

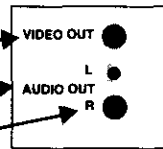
Terminals on back of TV (some models)



VCR or Video Disc



(Cables not supplied)



Terminals on back of VCR

STEREO MODELS



Terminals on front of TV (some models)

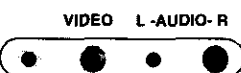
STEREO MODELS

MONO MODELS

VIDEO AUDIO



STEREO MODELS



Jack used for 1/8" headphone plug (some models)

Jack used for 1/8" earphone plug (some models)

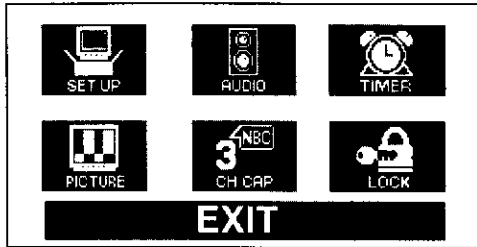
MAIN MENU

ACTION Button

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

Note: Models with no audio features will not display **AUDIO** icon in the Main Menu.

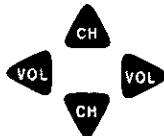
Main Menu



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

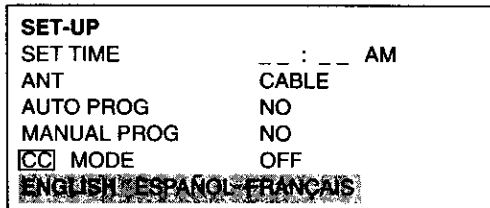
The Remote Control Quick Reference Guide is located in the package provided with the TV.

SPECIAL FEATURES

Languages



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

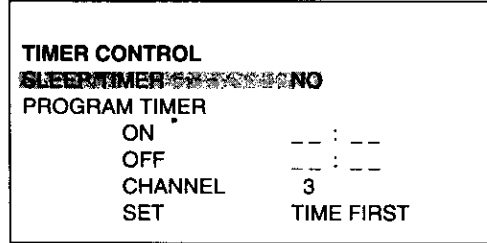


Timer



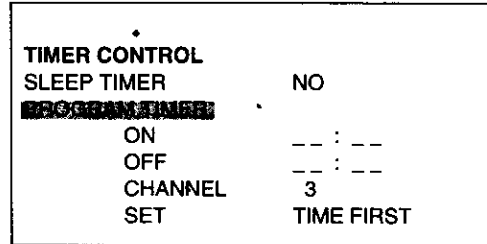
Sleep Timer

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



Program Timer

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



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**.

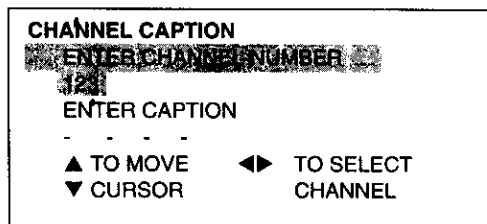
Helpful Hints: Turn Off After 90 Minutes

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.

CH CAP (Channel Caption)



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



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

Note: When **GAME GUARD** is ON, and if CH. 3 or CH. 4 is selected, the message **GAME GUARD ON** 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.

Main Menu Feature Chart Tabla de Características del Menú Principal

DESCRIPTION	MENU	DESCRIPCION
SET UP		AJUSTE
When entered, TIME will display on screen after pressing POWER button, RECALL button, or changing channels.	SET TIME AJUSTE DE LA HORA	TIME (HORA) aparecerá en pantalla al presionar ON (ENCENDIDO), RECALL (LLAMADA) ó al cambiar de canal.
Choose CABLE or TV to match the signal at your antenna input.	ANT ANTENA	Escoja CABLE o TV para igualar la señal de entrada de su antena.
Automatically program channels with a video signal into memory.	AUTO PROG PROG AUTOMÁTICA	Programa automáticamente los canales con señal de video en la memoria.
Manually add or delete channels from memory.	MANUAL PROG PROG MANUAL	Manualmente incluye o anula canales en memoria.
Closed Captioning displays when pressing the MUTE button.	CC MODE MODO CC	Aparecerán Subtítulos en presionar MUTE (SILENCIO).
Select English, Spanish, or French menu.	LANGUAGES IDIOMAS	Seleccione menús de Inglés, Español, o Francés.
AUDIO (some models)		SONIDO (algunos modelos)
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.	MODE MODALIDAD	Seleccione la modalidad de sonido: <input type="checkbox"/> STEREO - Receptor de sonido de dos canales. <input type="checkbox"/> SPA - Programa Secundario De Sonido. Sintonize un segundo sonido si está disponible en su área (sonido bilingüe o descriptivo). <input type="checkbox"/> MONO - Un sólo canal de sonido. Utilícelo cuando la señal de estéreo es débil.
Automatically maintain constant volume between programs and commercials.	AI SOUND SONIDO IA	Automáticamente mantiene el volumen constante entre programas y comerciales.
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 the amplifier only.	TV SPEAKERS ALTAVOZ	Seleccione ALTAVOCES DE TV: <input type="checkbox"/> SI (Encendido) - Los ALTAVOCES DE TV funcionan normalmente. <input type="checkbox"/> NO&VAO (Salida de audio variable) - ALTAVOCES DE TV APAGADOS, la salida de sonido via de acuerdo al volumen de TV. <input type="checkbox"/> NO&FAO (Salida de audio fija) - ALTAVOCES DE TV APAGADOS, la salida de sonido no es ajustable.
CH CAP		TÍTULOS DE CANAL
Provide labels for up to 30 stations using up to four characters for each station.	CHANNEL CAPTION TÍTULO DE CANAL	Programa hasta 30 emisoras usando un máximo de 4 siglas por cada emisora.

Main Menu Feature Chart (Cont.)
Tabla de Características del Menú Principal (Cont.)

<i>DESCRIPTION</i>	<i>MENU</i>	<i>DESCRIPCION</i>
TIMER		CRONOMETRO
Program TV to automatically turn off in 30, 60, or 90 minutes. Select NO to turn timer off.	SLEEP TIMER AUTO APAGADO	Programa la Televisión para que automáticamente se apague en 30, 60, ó 90 minutos. Seleccione NO para apagar el cronómetro.
Program TV to automatically turn on and off at selected time on a selected channel, daily or only one day.	PROGRAM TIMER CRONOMETRO PROGRAMABLE	Programa la Televisión para que automáticamente se encienda y apague en la hora seleccionada del canal seleccionado, diario o en un día únicamente.
PICTURE		IMAGEN
Reset all picture adjustments to factory default settings.	PICTURE NORM IMAGEN NORMAL	Reajusta todas las modificaciones de la imagen a los predispuestos de fábrica.
Adjust desired color intensity.	COLOR	Ajusta la intensidad del color deseada.
Adjust natural flesh tones.	TINT TINTE	Ajusta los tonos naturales de la piel.
Adjust dark areas for crisp detail.	BRIGHTNESS BRILLO	Ajusta las áreas oscuras para detalles más nítidos.
Adjust white areas of picture.	PICTURE CONTRASTE	Ajusta las áreas blancas de la imagen.
Adjust clarity of outline detail.	SHARPNESS NITIDEZ	Ajusta para dar mejor claridad a los detalles de la silueta.
LOCK		BLOQUEO
Program to prevent video games and VCR's from being viewed.	GAME GUARD BLOQUEO DE JUEGOS	Programa para prevenir el uso de juegos de video y videocassetas.

FELICITACIONES

Su nuevo Televisor Monitor/Receptor se caracteriza por un chasis de estado sólido que está diseñado para brindarle satisfacción por muchos años. Ha sido comprobada completamente en la fábrica para su mejor desempeño.

Registro del Usuario

Los números de modelo y de serie de esta unidad se encuentran en la parte posterior. Se recomienda que anote dichos números en los espacios que se proporcionan y se conserven como registro permanente de su compra. Esto le ayudará en su identificación en caso de robo o pérdida.

Los consumidores en Estados Unidos de América pueden registrar su producto en la siguiente dirección electrónica:

www.prodreg.com/panasonic

Número de Modelo

Número de Serie

Cuidado y limpieza

Pantalla (Apagar la Televisión)

- Use una solución de jabón suave o limpiador de vidrio con un paño suave y limpio. NO USE LIMPIADORES ABRASIVOS.
- Evite la humedad excesiva y seque bien.

Estante y Control Remoto

- Use un paño suave humedecido con agua o una solución de detergente suave. No use benceno, diluyentes (thinner) u otros productos de limpieza a base de petróleo.
- Seque con un paño suave y limpio. Evite la humedad excesiva.

Especificaciones

Fuente de Potencia CT-Z1417 (0,9A) CT-Z2137 (1,4A) CT-Z2117 (1,3A) CT-G2157 (1,5A)	120Vca; 60Hz
CT-Z1417X (0,9A) CT-Z2117X (1,2A) CT-Z1G14X (1,4A) CT-Z2137X (1,4A) CT-Z1R16X (1,2A) CT-G2157X (1,5A)	127Vca; 60Hz
CT-Z1427L (1,1A) CT-Z2147L (1,4A) CT-Z2127L (1,4A) CT-G2167L (1,5A)	Auto (110Vca- 220Vca); 50/60Hz
Capacidad de Canales - 181	VHF-12; UHF-56; Cable-113
Terminales de Entrada de Vídeo (algunos modelos)	1V _{p-p} ; 75 ohmios estilo fonográfico
Terminales de Entrada de Audio (algunos modelos)	500mV rms 47 Kilo Ohmios
Terminal para el Amplificador de Audio (algunos modelos)	0-2.0V rms 4.7 Kilo Ohmios

Las especificaciones están sujetas a cambio sin previo aviso ni obligación alguna.

Read these instructions completely before operating TV.
Lea estas instrucciones completamente antes de operar la Televisión.

Contents are subject to change without notice or obligation.
El contenido está sujeto a cambios sin previo aviso u obligación.

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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.

PRECAUCION

RIESGO DE SACUDIDAS ELECTRICAS. NO ABRIR.

PRECAUCION: A fin de reducir el riesgo de sacudidas eléctricas, no deberán de quitarse ni la cubierta ni la tapa posterior. No hay en el interior pieza alguna que el usuario tenga que reparar. Todo servicio habrá de binarlo personal de reparación capacitado.

El propósito del relámpago con punta de flecha dentro de un triángulo es el de advertir al usuario de que existen piezas internas del producto que representan riesgo de que las personas reciban sacudidas eléctricas.

El propósito del signo de exclamación dentro de un triángulo es el de advertir al usuario de que los documentos que acompañan al aparato incluyen importantes instrucciones de funcionamiento y reparación.

PRECAUCION: Con el objeto de prevenir el riesgo de incendio o de sacudida eléctrica, este aparato no deberá verse expuesto a la lluvia ni a la humedad.

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