

Panasonic®

Operating Instructions
54" Class 1080p Plasma HDTV
(54.1 inches measured diagonally)

Manual de instrucciones
Televisión de alta definición de 1080p y clase 54" de Plasma
(54,1 pulgadas medidas diagonalmente)

Model No.
Número de modelo **TC-P54Z1**

Quick Start Guide

(See page 8-18)

Guía de inicio rápido

(vea la página 8-18)



■ For assistance (U.S.A./Puerto Rico), please call:
1-877-95-VIERA (958-4372)
or visit us at www.panasonic.com/contactinfo

■ For assistance (Canada), please call:
1-866-330-0014
or visit us at www.vieraconcierge.ca

■ Para solicitar ayuda (EE.UU./Puerto Rico), llame al:
1-877-95-VIERA (958-4372)
ó visítenos en www.panasonic.com/contactinfo

Customer's Record

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____

Serial Number _____

Anotación del cliente

El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y guardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los servicios que le ofrece la garantía.

Modelo _____

Número de serie _____

Panasonic Corporation

Web Site: <http://panasonic.net/>

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PBS0109F0

AVCHD™

VIERA CAST™

VIERA Link™

VIERA™
IMAGE VIEWER

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

HDTV

SD
CC

BBE®
High Definition Sound

BBE.ViVA™
HD3D Sound

English

Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.

Español

Lea estas instrucciones antes de utilizar su televisor y guárdelas para consultarlas en el futuro.
Las imágenes mostradas en este manual tienen solamente fines ilustrativos.

TQB2AA2488

Turn your own living room into a movie theater!
Experience an amazing level of multimedia excitement



TENTATIVE

DIGITAL TELEVISION TRANSITION NOTICE

This device contains a digital television tuner, so it should receive digital over the air TV programming, with a suitable antenna, after the end of full-power analog TV broadcasting in the United States (as required by law) on February 17, 2009. Some older television receivers, if they rely on a TV antenna, will need a TV Converter to receive over the air digital programming, but should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games). When a Converter is used with an older television receiver, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. For more information, please see www.DTV.gov. For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see www.dtv2009.gov, or call the NTIA at 1-888-DTV-2009. Please check with your cable or satellite service provider if you have questions about your cable or satellite set-top box.



This product qualifies for ENERGY STAR in the "Home" setting and this is the setting in which energy savings will be achieved. Any modifications to the "Home" setting or other factory default settings could result in greater energy consumption beyond levels that meet ENERGY STAR qualifications.

Contents

Please read before using the unit

- Safety Precautions 4
- Notes 7

Quick Start Guide

- Accessories/Optional Accessory 8
- Basic Connection 15
- Identifying Controls 19
- First Time Setup 21

Enjoy your TV!

Basic Features

- Watching TV 25
- Using VIERA TOOLS 27
- Viewing from an SD Card 28
- Watching Videos and DVDs 32
- VIERA CAST™ 34
- Network Camera 36
- Displaying PC Screen on TV 38

Advanced Features

- How to Use Menu Functions (picture, sound quality, etc.) 40
- VIERA Link™ "HDAVI Control™" 44
- Network setting 50
- VIERA CAST setting 52
- Lock 54
- Editing and Setting Channels 56
- Closed Caption 58
- Input Labels/Audio Out 59
- Using Timer 60
- Remote control setting 61
- Recommended AV Connections 62

FAQs, etc.

- Ratings List for Lock 63
- Technical Information 64
- Care and Cleaning 68
- Specifications 69
- FAQ 70
- Limited Warranty (for U.S.A. and Puerto Rico only) 72
- Customer Services Directory (for U.S.A. and Puerto Rico) 73
- Limited Warranty (for Canada) 74

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<p>HDAVI Control™ is a trademark of Panasonic Corporation.</p>	

Quick Start Guide

Viewing

Advanced

FAQs, etc.

Safety Precautions



CAUTION

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 arrowhead 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 reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

Important Safety Instructions

- | | |
|---|---|
| <ol style="list-style-type: none"> 1) Read these instructions. 2) Keep these instructions. 3) Heed all warnings. 4) Follow all instructions. 5) Do not use this apparatus near water. 6) Clean only with dry cloth. 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. | <ol style="list-style-type: none"> 11) Only use attachments / accessories specified by the manufacturer. 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over. 13) Unplug this apparatus during lightning storms or when unused for long periods of time. 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected. |
|---|---|



WARNING/CAUTION

 **WARNING**

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

- **Set up**
This Plasma TV may fall and can cause personal injury or even death if not installed correctly. To prevent personal injury or death, follow these warnings:
- **Install the Plasma TV in accordance with the manufacturer's recommended pedestal or stand, corresponding hardware and installation instructions.** This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability. The following accessories are manufactured by Panasonic Corporation.
 - Wall-hanging bracket (Vertical) TY-WK5P1SW
 - **Be sure to ask a qualified technician to carry out the installation and set-up.** Two or more people are required to install or remove the television.

- **Some wall mounts (wall-hanging brackets) are not designed to be mounted to walls with steel studs or old cinder block constructions.** Ask your dealer or licensed contractor to properly secure the wall-hanging bracket.
- **Do not place the Plasma TV or its stand on a sloped or unstable surface.** The Plasma TV may fall or tip over.
- **Do not support the Plasma TV on a non-specified pedestal.**
- **Do not place the Plasma TV on furniture that can easily be used as steps, such as a chest of drawers.**
- **Do not climb or allow children to climb on the Plasma TV**
- **Place or install the Plasma TV where it cannot be pushed, pulled over or knocked down.**
- **Route all cords and cables such that they cannot be tripped over or pulled by curious children.**
- **Do not place any objects on top of the Plasma TV.** If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

- **AC Power Supply Cord**
To prevent fire or electric shock:
- **The Plasma TV is designed to operate on a 120 V AC, 60 Hz service. Insert the power cord plug as far as it will go into the wall socket.** If the plug is not fully inserted, heat may generate, which could cause a fire.
 - **The included power cord is for use with this unit only.**
 - **Do not use any power cord other than that provided with this TV.**
 - **Do not handle the power cord plug with wet hands.**
 - **Do not do anything that might damage the power supply cord.**
 - **When disconnecting the power supply cord, hold the plug, not the cord.**
 - **Do not use the power supply cord if the plug or cord is damaged.** Replace the cord or contact your Authorized Service Center

- **Handling the power supply cord**
- **Insert the power plug fully into the socket outlet. (If the power plug is loose, it could generate heat and cause fire.)**
 - **Ensure that the power plug is easily accessible.**
 - **Ensure the earth pin on the power plug is securely connected to prevent electrical shock.**
 - An apparatus with CLASS I construction shall be connected to a power socket outlet with a protective earthing connection.
 - **Do not touch the power plug with a wet hand. (This may cause electrical shock.)**
 - **Do not use any power cord other than that provided with this TV. (This may cause fire or electrical shock.)**
 - **Do not damage the power cord. (A damaged cord may cause fire or electrical shock.)**
 - Do not move the TV with the cord plugged in the socket outlet.
 - Do not place a heavy object on the cord or place the cord near a high-temperature object.
 - Do not twist the cord, bend it excessively, or stretch it.
 - Do not pull on the cord. Hold onto the power plug body when disconnecting cord.
 - Do not use a damaged power plug or socket outlet.

- **Radio waves**
- **Do not place this TV in any medical institutions or locations with medical devices.** Radio waves from this TV may interfere with the medical devices and cause accidents due to the malfunction.
 - **Do not use this TV near any automatic control devices such as automatic doors or fire alarms.** Radio waves from this TV may interfere with the automatic control devices and cause accidents due to the malfunction.
 - **Keep the RF remote control and Monitor Tuner away at least 8.7 inches (22 cm) from the location where a cardiac pacemaker is implanted.** Radio waves from this TV may interfere with the operation of the pacemaker.

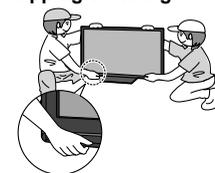
- **If Problems Occur During Use**
- **If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power supply cord immediately.** Continued use of the TV under these conditions might cause a fire or permanent damage to the TV. Have the TV evaluated by an Authorized Service Center. Servicing of the TV by unauthorized personnel is strongly discouraged due to its high voltage.
 - **If water or an object gets inside the Plasma TV, if the Plasma TV is dropped, or if the enclosure becomes damaged, unplug the power supply cord immediately.** A short-circuit may occur, which could cause a fire. Contact an Authorized Service Center for an evaluation.

CAUTION

- **Do not cover the ventilation holes.** Doing so may cause the Plasma TV to overheat, which can cause a fire or damage to the Plasma TV.
- **Leave a space of 3 15/16" (10 cm) or more at the top, left and right, and 2 3/4" (7 cm) or more at the rear.**
- **When using the pedestal, keep the space between the bottom of the TV and the pedestal or stand surface clear from objects that may obstruct ventilation.**

- **When Moving the Plasma TV**
- **Be sure to disconnect all cables before moving the Plasma TV.** Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock
 - **To prevent an electric shock, disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.**
 - **Transport only in upright position** Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.
 - **Using a dry cloth, clean any dust from the power supply cord and plug regularly.** Build-up of dust on the power cord plug can increase humidity, which might damage the insulation and cause a fire.
- This Plasma TV radiates infrared rays;** therefore, it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.
- The TV will still consume some power as long as the power supply cord is connected to the wall outlet.**

- **Display panel is made of glass. Do not apply strong force or impact to the display panel.** This may cause damage resulting in injury.
- **The TV is heavy. TV should be handled by 2 or more people. Support as shown to avoid injury by the TV tipping or falling.**



Safety Precautions (Continued)



FCC STATEMENT

FCC RF Exposure Warning:

- RF remote control and WirelessHD complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- To comply with FCC RF exposure requirements, RF remote control and WirelessHD must not be installed nor operated within 20 cm (8 inches) range of the RF remote control and WirelessHD or any human body (excluding extremities).
- RF remote control and WirelessHD may not be placed or operated with any other antenna or transmitter.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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.

FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

FCC Declaration of Conformity Model No. TC-P54Z1

Responsible Party:	Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company 1-877-95-VIERA (958-4372)
email:	consumerproducts@panasonic.com

CANADIAN NOTICE:

For Model TC-P54Z1

This Class B digital apparatus complies with Canadian ICES-003.

WARNING

CEA CHILD SAFETY NOTICES: Flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations. Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and may cause personal injury or even death.

The consumer electronics industry (of which Panasonic is a member) is committed to making home entertainment enjoyable and safe. To prevent personal injury or death, be sure to follow the following safety guidelines:

TUNE INTO SAFETY:

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on "larger than life" flat panel displays. Care should be taken to install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.

Panasonic recommends that a qualified installer perform the wall-mount installation. See page 5.

Notes

■ Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("Image retention"). This is not considered a malfunction and is not covered by the warranty.



To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 63)

Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photo
- Video game
- Computer image

■ Set up

- Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control's transmission range.

Accessories/Optional Accessory

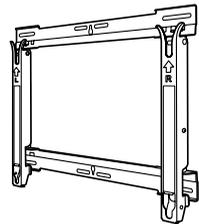
Accessories

✓ Check you have all the items shown.

Accessories

- Remote Control Transmitter
● N2QAYB000005
- Batteries for the Remote Control Transmitter (2)
● AA Battery
- AC cord
- Cleaning cloth
- Monitor tuner
- Wireless HD (Receiving unit)
- Wireless HD (Sending unit)
- Pedestal
● TBLX0102
How to assemble (p. 9)
- Operating Instructions
- Product Registration Card (U.S.A.)
- Quick Setup Guide
- Customer Care Plan Card (U.S.A.)
- RS232C terminal Specifications

Optional Accessory



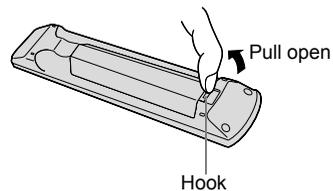
Wall-hanging bracket (vertical)
● TY-WK5P1SW

Note

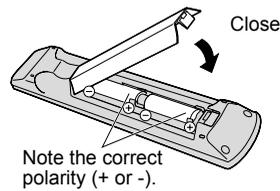
- In order to maintain the TV's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause its panel to crack.

Installing the remote's batteries

1



2



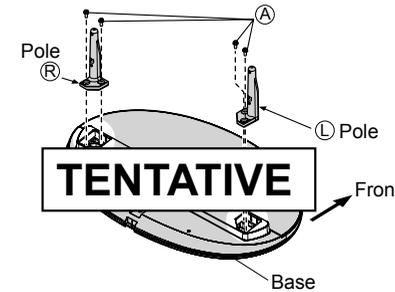
Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.

Attaching the pedestal to TV

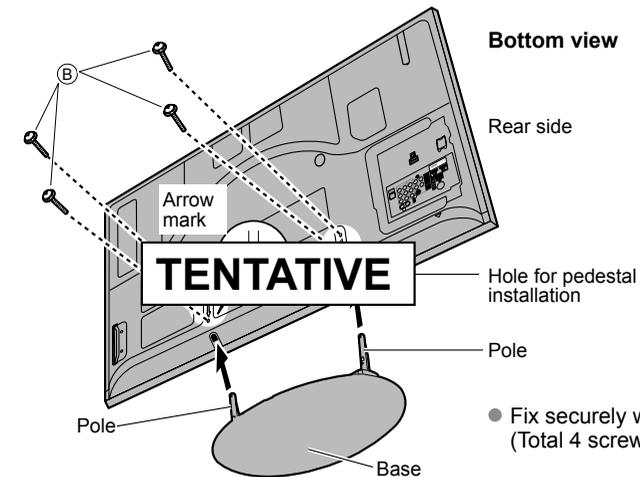
Assembling the pedestal

- Fix securely with assembly screws (A). (Total 4 screws)
- Tighten screws firmly.



Set-up

- Carry out work on a horizontal and level surface.
- Tighten screws firmly.



Warning

Do not disassemble or modify the pedestal.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any other TV and displays.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

During set-up, make sure that all screws are securely tightened.

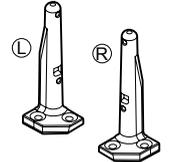
- If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Accessories

Assembly screws (4 of each)

- (A) M5 x 18 (Silver)
- (B) M5 x 25 (Black)

Poles (2)



- (L) or (R) is printed at the bottom of the poles.

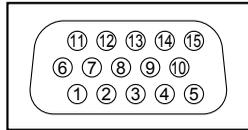
Base (1)

TENTATIVE

Technical Information (Continued)

PC Input Terminals Connection

- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with IBM PC/AT compatible D-sub 15P terminal.
- The maximum resolution: 1,280 × 1,024
- If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- Signal Names for D-sub 15P Connector



Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC

Care and Cleaning

First, unplug the Power cord plug from the wall outlet.

Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, soak a soft, lint-free cloth in diluted mild liquid dish soap (1 part mild liquid dish soap diluted by 100 times the amount of water) and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the surface may be adversely affected.

Cabinet

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in a weak mild liquid dish soap and then wring the cloth dry. Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any mild liquid dish soap to come into direct contact with the surface of the Plasma TV. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Pedestal

- Cleaning

Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth.

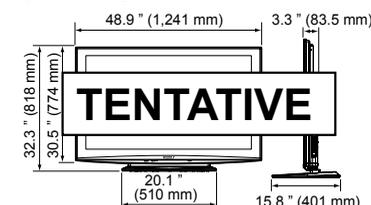
Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)

- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

Specifications

		TC-P54Z1
Power Source	Maximum	xxx W
	Standby condition	x.x W
	Drive method	AC type
Plasma Display panel	Aspect Ratio	16:9
	Visible screen size (W × H × Diagonal)	50" class (49.9 inches measured diagonally) 43.5" × 24.4" × 49.9" (1,105 mm × 622 mm × 1,268 mm)
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]
	Audio Output	20 W [10 W + 10 W] (10 % THD)
Sound		
PC signals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz	
Channel Capability (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: TENTATIVE	
Operating Conditions	Temperature: 32 °F - 104 °F (0 °C - 40 °C) Humidity: 20 % - 80 % RH (non-condensing)	
Connection Terminals	VIDEO IN 1	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) S-VIDEO: Mini DIN 4-pin Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]
	VIDEO IN 2	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]
	COMPONENT IN 1-2	Y: 1.0 V [p-p] (including synchronization) Pb, Pr: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]
	HDMI 1-4	TYPE A Connector × 4 ● This TV supports "HDAVI Control 4" function.
	PC	D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance)
	RS232C (Serial)	D-sub 9pin for external control
	LAN (for VIERA CAST IPTV)	RJ45 (10BASE-T/100BASE-TX)
	Card slot	SD CARD slot × 1
	AUDIO OUT	AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic
FEATURES	3D Y/C FILTER CLOSED CAPTION V-Chip IPTV (VIERA CAST) Photo viewer Movie player HDAVI Control 4	
Dimensions (W × H × D)	Including pedestal	48.9" × 32.3" × 15.8" (1,241 mm × 818 mm × 401 mm)
	TV Set only	48.9" × 30.5" × 3.3" (1,241 mm × 774 mm × 83.5 mm)
Mass	Including pedestal	xx.x lb. (xx.x kg)
	TV Set only	xx.x lb. (xx.x kg)

[TC-P54Z1]



Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.