Panasonic®

Model No. No. de Modelo

TH-42PF20U TH-50PF20U

Operating Instructions High Definition Plasma Display Manual de instrucciones Alta definición Pantalla de plasma



For more detailed instructions, refer to the Operating Instructions on the CD-ROM.

To view the Operating Instructions on the CD-ROM, you need a computer equipped with a CD-ROM drive, and Adobe® Reader® (Version 7.0 or later is recommended) installed on your computer. Depending on the operating system or settings on your computer, the Operating Instructions may not start automatically.

In this case, open the PDF file under the "MANUAL" folder manually to view the instructions.

Para obtener instrucciones más detalladas, consulte las instrucciones de manejo contenidas en el CD-ROM.

Para ver las instrucciones de manejo contenidas en el CD-ROM, se necesita un ordenador equipado con una unidad de CD-ROM, y que tenga instalado Adobe® Reader® (se recomienda la versión 7.0 o posterior).

Dependiendo del sistema operativo o de las configuraciones del ordenador, las nstrucciones de manejo pueden no iniciarse automáticamente. En tal caso, abra manualmente e l archivo PDF en "MANUAL" carpeta para visualizar las instrucciones.

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English

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

Español

Antes de conectar, utilizar o ajustar este producto, lea completamente este manual de instrucciones; y guárdelo para consultarlo en el futuro en caso de ser necesario.





TQB2AA0590





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 damage which may result in fire or shock hazard, do not expose this apparatus to rain or moisture. Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set.

Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.)

- **WARNING :** 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
 - 2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.



Important Safety Instructions

- 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.
- 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.



FCC STATEMENT

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 technician for help.

This device complies with Part15 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. TH-42PF20U, TH-50PF20U

Responsible Party:	Panasonic Corporation of North America One Panasonic Way 1F-10, Secaucus, NJ 07094
Contact Source:	Panasonic Professional Display Company Panasonic Plasma Concierge 1-800-973-4390

CANADIAN NOTICE:

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

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Inc., USA.
- SVGA, XGA, SXGA and UXGA are registered trademarks of the Video Electronics Standard Association. Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Safety Precautions

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Panasonic Corporation.)

Speakers	. TY-SP42P8W-K (for TH-42PF20U)
Pedestal	TY-ST20-K
Mobile stand	.TY-ST58PF20
Wall-hanging bracket (vertical)	. TY-WK42PV20
• Wall-hanging bracket (angled)	. TY-WK42PR20
Ceiling-hanging bracket	.TY-CE42PS20
• BNC Dual Video Terminal Board	. TY-FB9BD
• HD-SDI Terminal Board with audio	.TY-FB10HD
• Dual Link HD-SDI Terminal Board	. TY-FB11DHD
Dual HDMI Terminal Board	. TY-FB10HMD
• DVI-D Terminal Board	TY-FB11DD
• Ir Through Terminal Board	.TY-FB9RT
Mate-IF Boad	.TY-FB11HB
AV Terminal Box	.TY-TB10AV
Anti Glare Filter	.TY-AR42P12W (for TH-42PF20U), TY-AR50P12W (for TH-50PF20U)
Touch Panel	TY-TP42P10S (for TH-42PF20U), TY-TP50P10S (for TH-50PF20U)

Always be sure to ask a qualified technician to carry out set-up.

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.

■ When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

 Top of the Plasma Display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display if its ventilation holes are blocked.

Be sure to disconnect all cables before moving the Plasma Display.

 Moving the Display with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.

• Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it from becoming dusty.

 Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

This Plasma Display 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 Display.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

WARNING

Setup

Do not place the Plasma Display on sloped or unstable surfaces.

• The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

 If water spills onto the Plasma Display 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 Display, please consult an Authorized Service Center.

Do not cover the ventilation holes.

 Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Transport only in upright position!

 Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

If using the pedestal (optional accessory), 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, and also keep the space between the bottom of the display and the floor surface. If using some other setting-up method, follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 3 15/16'' (10 cm) or more at the top, bottom, left and right, and 2 3/4'' (7 cm) or more at the rear.)

When installing the Plasma Display vertically;

Turn up the power switch for the upward direction when you install the Plasma Display vertically.

And set "DISPLAY ORIENTATION" to "PORTRAIT" in SET UP menu.

An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.

■ AC Power Supply Cord

The Plasma Display is designed to operate on 110 - 127 V AC, 50/60 Hz.

Ensure that the mains plug is easily accessible.

Do not use any power supply cord other than that provided with this unit.

· Doing so may cause fire or electric shocks.

Securely insert the power cord plug as far as it will go.

 If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.

• Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.

 Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the Plasma Display will not be used for a long period of time, unplug the power cord from the wall outlet.

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 Display, unplug the power cord immediately.

 Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.

 A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

Maintenance

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, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and 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, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

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

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added 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 detergent to come into direct contact with the surface of the Plasma Display. 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.

Accessories Supplied



▲ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. Disposal of batteries should be in an environment-friendly manner.

Observe the following precautions:

- 1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when the remote control acts sporadically or stops operating the Plasma Display.
- 6. Do not burn or breakup batteries.
 - Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Connections

Speaker connection

When connecting the speakers, be sure to use only the optional accessory speakers.

Refer to the speaker's Installation Manual for details on speaker installation.



AC cord connection and fixing, cable fixing



Using the clamper

When using the Wall-hanging bracket (vertical) (TY-WK42PV20), use the holes (A) and (B) to secure the cables. If the clamper is used on the hole (C), the cables may be caught by the wall-hanging bracket.

Secure any excess cables with clamper as required.



Video equipment connection



VIDEO and COMPONENT / RGB IN connection

Note:

Additional equipment, cables and adapter plugs shown are not supplied with this set.



HDMI connection

[F	Pin assignments	and sig			A'	VIN -O	6	@	PCIN ⊕	SERIAL	
Pin No.	Signal Name	Pin No.	Signal Name		- AN	RLAUD	010 ⁻⁵ -	VIDEO	Y/G		
1	T.M.D.S Data2+	11	T.M.D.S Clock Shield			R LAUD COMP		PR/CR/R /RGB IN	® Ps/Cs/B ⊕		
2	T.M.D.S Data2 Shield	12	T.M.D.S Clock-							Å	
3	T.M.D.S Data2-	13	CEC							<u>{ }</u>	
4	T.M.D.S Data1+		Posorvod							<u>ا</u>	
5	T.M.D.S Data1 Shield	14	(N.C. on device)	(19	3	1				Н	DMI cable
6	T.M.D.S Data1-	15	SCL							_	
7	T.M.D.S Data0+	16	SDA	ممممممه,		┶╢				L	
8	T.M.D.S Data0 Shield	17	DDC/CEC Ground								
9	T.M.D.S Data0-	18	+5V Power	18	4	2					
10	T.M.D.S Clock+	19	Hot Plug Detect							AV OUT	
									-		
									DV	Dplayer	
Note:								É	_		

Additional equipment and HDMI cable shown are not supplied with this set.

DVI-D IN connection



Notes:

• Additional equipment and cables shown are not supplied with this set.

· Use the DVI-D cable complying with the DVI standard. Image deterioration may occur depending on the length or the quality of the cable.

PC Input Terminals connection



Notes:

- With regard to the typical PC input signals that are described in the applicable input signals list, adjustment values such as for the standard picture positions and sizes have already been stored in this unit. You can add up to eight PC input signal types that are not included in the list.
- 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.)
- The display resolution is a maximum of 1,440 × 1,080 dots when the aspect mode is set to "4:3", and 1,920 × 1,080 dots when the aspect mode is set to "FULL". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT" (when COMPONENT signal connection) or "RGB" (when RGB signal connection).

$\begin{array}{c} (1) (2) (3) (4) (5) \\ (6) (7) (8) (9) (0) \\ (1) (2) (3) (4) (5) \end{array}$

Pin Layout Terminal

	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
13 14 15	1	$R (P_R/C_R)$	6	GND (Ground)	1	NC (not connected)
	2	G (Y)	\overline{O}	GND (Ground)	12	SDA
345	3	В (P _в /C _в)	8	GND (Ground)	13	HD/SYNC
for PC Input	4	NC (not connected)	0	+5 V DC	14	VD
	5	GND (Ground)	10	GND (Ground)	15	SCL

Signal Names for Mini D-sub 15P Connector

SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for SERIAL Terminal

Notes:

- Use the RS-232C straight cable to connect the computer to the Plasma Display.
- The computer shown is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	-

Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



Notes:

- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.
- S1A and S1B of Command IMS are available only when a dual input terminal board is attached.

Signal names for D-sub 9P connector

Pin No.	Details
2	R X D
3	TXD
5	GND
4.6	Non use
(7) (8)	(Shorted in this set)
1•9	NC

These signal names are those of computer specifications.

Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio MUTE OFF
	1	Audio MUTE ON
IMS	None SL1 S1A S1B VD1 YP1 HM1 DV1 PC1	Input select (toggle) SLOT input (SLOT INPUT) SLOT input (SLOT INPUT A) SLOT input (SLOT INPUT B) VIDEO input (VIDEO) COMPONENT/RGB IN input (COMPONENT) HDMI input (HDMI) DVI-D IN input (DVI) PC IN input (PC)
DAM	None ZOOM FULL JUST NORM SJST SNOM SFUL ZOM2	Screen mode select (toggle) ZOOM (For Video/SD/PC signal) FULL JUST (For Video/SD signal) 4:3 (For Video/SD/PC signal) JUST (For HD signal) 4:3 (For HD signal) H-FILL (For HD signal) ZOOM (For HD signal)

With the power off, this display responds to PON command only.

Power ON / OFF

Connecting the AC cord plug to the Plasma Display.





Connecting the plug to the Wall Outlet.

Note:

When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green



Press the (b) button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

Press the (b) button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display off by pressing the \oplus/I switch on the unit, when the Plasma Display is on or in standby mode.

Note:

During operation of the power management function, the power indicator turns orange in the power off state.



When first switching on the unit

Following screen will be displayed when the unit is turned on for the first time. Select the items with the remote control. Unit buttons are invalid.

OSD LANGUAGE



PRESENT TIME SETUP



DISPLAY ORIENTATION



① For vertical installation, select "PORTRAIT".











PORTRAIT

Notes:

- Once the items are set, the screens won't be displayed when switching on the unit next time.
- After the setting, the items can be changed in the following menus.

OSD LANGUAGE PRESENT TIME SETUP DISPLAY ORIENTATION

From the second time on, the below screen is displayed for a while (setting condition is an example).



Selecting the input signal



Press to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Input signals will change as follows:

 \rightarrow PC \rightarrow VIDEO \rightarrow COMPONENT* \rightarrow HDMI \rightarrow DVI -

VIDEO: Video input terminal in AV IN (VIDEO). COMPONENT*: Component or RGB input terminal in COMPONENT/RGB IN. HDMI: HDMI input terminal in AV IN (HDMI). DVI: DVI input terminal in DVI-D IN. PC: PC input terminal in PC IN.

* "COMPONENT" may be displayed as "RGB" depending on the setting of "COMPONENT/RGB-IN SELECT".

When an optional Terminal Board is installed:

 $ightarrow PC \rightarrow SLOT INPUT \rightarrow VIDEO \rightarrow COMPONENT \rightarrow HDMI \rightarrow DVI -$

SLOT INPUT: Input terminal in Terminal Board Note:

When a Terminal Board incompatible with the Plasma Display is installed, "NON-COMPATIBLE FUNCTION BOARD" is displayed.

When a Terminal Board with dual input terminals is installed:

 \rightarrow PC \rightarrow SLOT INPUT A \rightarrow SLOT INPUT B \rightarrow VIDEO \rightarrow COMPONENT \rightarrow HDMI \rightarrow DVI -

SLOT INPUT A, SLOT INPUT B: Dual input terminal in Terminal Board.

Notes:

- Selecting is also possible by pressing the INPUT button on the unit.
- Outputs the sound as set in "Audio input select" in the Options menu.
- Select to match the signals from the source connected to the component/RGB input terminals.
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- Image retention (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent image retention, but this function is not the perfect solution to image retention.





Basic Controls

Main Unit



Remote Control Transmitter



On-Screen Menu Displays



Overview

Note: Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.

POS./SIZE Image: Signal (VIDEO) INTO SETUP: Image: Signal (VIDEO) INTO SETUP: Image: Signal (VIDEO) INSIGNAL (VIDEO) Image: Signal (VIDEO) Insignal		·,
PICTURE 2/2 MULTI DISPLAY SETUP 2/2 MULTI DISPLAY SETUP 2/2 PICTURE MENU STANDARD PRESENT TIMES SETUP DISPLAY ORIENTATION DISPLAY ORIENTATION LANDSCAPE MEMORY SAVE MULTI DISPLAY SETUP	POS./SIZE NORMALIZE NORMAL AUTO SETUP D D H-POS D D H-POS D D H-POS D D I V-POS D D OT CLOCK D CLOCK HASE D CLAMP POSITION D 1:1 PIXEL MODE OFF	SIGNAL [VIDEO] SIGNAL SIGNAL SCREENSAVER EXTENDED LIFE SETTINGS INPUT LABEL COMPONENTINGB-IN SELECT POWER SAVE STANDBY SAVE OFF STANDBY SAVE OFF DUD POWER MAVAGEMENT AUTO OFF STANDBY SAVE OFF AUTO POWER MAVAGEMENT AUTO POWER OFF STANDBY SAVE OFF STANDBY SAVE STANDBY SAVE OFF STANDBY SAVE OFF STANDBY SAVE OFF STANDBY SAVE OFF STANDBY SAVE STANDBY SAVE OFF STANDBY SAVE STANDBY SAVE STANDB
MULTI DISPLAY SETUP OFF → HORIZONTAL SCALE x 2 → VERTICAL SCALE x 2 → SEAM HIDES VIDEO OFF → LOCATION A1 → A1SYNCHRONIZATION OFF →	PICTURE NORMALIZE PICTURE MENU STANDARD PICTURE MENU STANDARD BRIGHTNESS COLOR TINT COLOR TINT COLOR TEMP NORMAL COLOR TEMP NORMAL COLOR TEMP NORMAL ADVANCED SETTINGS MEMORY SAVE MEMORY SAVE MEMORY SAVE	Implifying the setup 2/2 Multi DISPLAY SETUP EXPRESS SETTINGS PORTRAIT SETUP EXPRESS SETTINGS PRESENT TIME SETUP EXPRESS SETTINGS DISPLAY ORIENTATION LANDSCAPE Implifying the setup Implifying the setup DISPLAY ORIENTATION LANDSCAPE Implifying the setup Implifying the setup
ADVANCED SETTINGS MULTI PIP BLACK EXTENSION 0 INPUT LEVEL 0 0 GAMMA 2.2 0 ACC OFF 0 WB HIGH R 0 0 WB HIGH G 0 0 WB HIGH B 0 0 WB LOW B 0 0	ADVANCED SETTINGS	MULTI PIP SETUP MULTI PIP T BLEND PIP DISPLAY MODE
Image: Sound in the standard in	♪ SOUND 1/2 NORMALIZE NORMAL AUDIO MENU \$TANDARD > BASS 0 0 MID 0 0 1 TREBLE 0 0 1 BALANCE 0 0 1 SURROUND OFF > AUDIO OUT (PIP) MAIN 2 IFT CHANNEL 1 CHANNEL 1 RIGHT CHANNEL 1 CHANNEL 1	PORT MODE OFF SEAM MIDES VIDEO OFF VEWING AREA 16:9 LOCATION 1 AI-STNCHRONIZATION OFF PORT 1024 P LAN SPEED Auto NETWORK ID 0 PORT 1024 P LAN SPEED Auto NETWORK ID 0 PORT 1024 P MAC ADDRESS MAC ADDRESS

Using Network Function

This unit has a network function to control the network connected display with your computer.

Note:

To use the network function, set each "NETWORK SETUP" setting and make sure to set the "CONTROL I/F SELECT" to "LAN".

When "LAN" is set, the slot power is turned on, and power indicator is lit orange under the condition of power off with remote control (stand-by state), regardless of the "Slot power" setting.



Notes:

- Make sure the broadband router or hub supports 10BASE-T/100BASE-TX.
- To connect a device using 100BASE-TX, use "category 5" LAN cable.
- Touching the LAN terminal with a statically charged hand (body) may cause damage due to its discharge. Do not touch the LAN terminal or a metal part of the LAN cable.
- · For instructions on how to connect, consult your network administrator.

Command Control

Network function of the unit can control the unit in the same way as serial control from a network.

Supported commands

Commands used in the serial control are supported. (see page 12)

Note:

Consult your local Panasonic dealer for detail instructions on command usage.

Specifications

			TH-42PF20U	TH-50PF20U								
Po	wer Source		110 - 127 V AC, 50/60 Hz									
Po	wer Consump	otion										
	Rated Power	Consumption	400 W	475 W								
	On mode Av Consur	erage Power nption*	165 W	220 W								
	Stand-by	condition	Save OFF 0.9 W, Save ON 0.4 W	Save OFF 0.9 W, Save ON 0.4 W								
	Power off	condition	0.2 W	0.2 W								
Pla	sma Display	panel	Drive method : AC type 42-inch, 16:9 aspect ratio	Drive method : AC type 50-inch, 16:9 aspect ratio								
Scr	een size		36.2" (921 mm) (W) × 20.4" (518 mm) (H) 43.5" (1,105 mm) (W) × 24.4" (622 mm × 41.6" (1,057 mm) (diagonal) × 41.6" (1,057 mm) (diagonal) × 49.9" (1.268 mm) (diagonal)									
	(No.of	pixels)	2,073,600 (1,920 [5,760 × 1	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]								
Op	erating condi	tion										
	Tempe	erature	32 °F - 104 °F	(0 °C - 40 °C)								
	Hum	nidity	20 %	- 80 %								
Ap	plicable signa	als										
	Color System	1	NTSC, PAL, PAL60, SECAM, Modified NTSC									
	Scannin	g format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (7 · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i	225 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p 24p · 25p · 30p · 24sF, 1250 (1080) / 50i								
	PC si	gnals	VGA, SVGA, XGA, SXGA									
			UXGA (d	compressed)								
			Horizontal scanning fr	requency 15 - 110 kHz								
			Vertical scanning fre	equency 48 - 120 Hz								
Co	nnection term	inals										
			RJ45 10BASE-T/100BASE-TX, compatible with P	JLink™								
	AV IN			1.0 Vp-p (75 Ω)								
			KCA Pin jack x 2 0.5 Vims									
			TIPEAC	Jonnector								
	COMPONE	Y/G	BNC	with sync 1.0 Vn-n (75.0)								
		PB/CB/B	BNC	0.7 Vn-n (75.0)								
		Pr/Cr/R	BNC	$0.7 \text{ Vp-p} (75 \Omega)$								
		AUDIO L-R	RCA Pin jack × 2	0.5 Vrms								
	DVI-D IN		DVI-D 24 Pin	Compliance with DVI Revision 1.0								
			Content Protection	Compatible with HDCP 1.1								
		AUDIO	Stereo mini jack (M3) × 1	0.5 Vrms								
	PC IN		High-Density Mini D-sub 15 Pin	Y or G with sync 1.0 Vp-p (75 Ω)								
				Y or G without sync 0.7 Vp-p (75 Ω)								
				Рв/Св/В: 0.7 Vp-р (75 Ω)								
				Pr/Cr/R: 0.7 Vp-p (75 Ω)								
				HD/VD: 1.0 - 5.0 Vp-p (high impedance)								
			Stereo mini jack (M3) × 1	0.5 Vrms								
	SEF	KIAL	External Control Terminal									
			D-Sub 9 Pin									
D :	EXT	<u>5</u> P	Opeaker Terminal	$0 \Sigma 2$, $10 VV [8 VV + 8 VV] (10 % IHD)$								
	nensions (W :	кнхD)	40.2 (1,020 mm) × 24.1 (010 mm) × 3.5 (89 mm)	41.7 (1,210 mm) × 20.3 (724 mm) × 3.5 (89 mm)								
wia	ss (weight)	nit only		approx 69 4 lba								
	rnain u											
	l with sp	eakers	appiux. 01.0 lbs	approx. 79.4 lbs								

* Based on IEC 62087 Ed.2 section 11.6.1 measurement method.

Note:

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

Panasonic Professional Display Company Unit of Panasonic Corporation of North America One Panasonic Way 1F-10 Secaucus, NJ 07094

Panasonic Professional Flat Panel Display Limited Warranty

Panasonic Professional Display Company. (referred to as "the Warrantor") will repair this product and all included accessories with new or refurbished parts, free of charge in the USA or Puerto Rico, of the original purchase in the event of a defect in materials or workmanship as follows:

Models or Parts	Part Warranty	Labor Warranty
Professional Flat Panel Display	2 Years	2 Years

On-site or carry-in service in the **USA and Puerto Rico** may be obtained during the warranty period by contacting Panasonic Professional Display Company Service toll free at 1-800-973-4390.

This warranty is extended only to the original purchaser and is non transferable. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use. The warranty does not cover damage which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from improper installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITION, DAMAGE TO DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may nor apply to you. This warranty gives you specific legal rights and you may other rights, which vary from state to state.

If you have a problem with this product that is not handled to your satisfaction, then write the Consumer Affairs Department at the Company address indicated above.

In the USA and Puerto Rico FOR SERVICE CALL TOLL FREE 1-800-973-4390

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Model Number

Serial Number

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Panasonic Professional Display Company

Unit of Panasonic Corporation of North America

Executive Office :

One Panasonic Way 1F-10, Secaucus, NJ 07094

Panasonic Canada Inc. 5770 Ambler Drive Mississauga, Ontario

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