



Operating Instructions Manual de instrucciones

High Definition Plasma Display Alta definición Pantalla de plasma

Model No. Número de modelo.

TH-42PH10UKA TH-50PH10UKA TH-58PH10UKA



The illustration shown is an image.

Before connecting, operating or adjusting this product, please read these instructions completely.

Please keep this manual for future reference.



La ilustración mostrada es una imagen.

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.

English

Español

TQB2AA0766-1



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 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. (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.

This video monitor is designed to display television content from a separate TV tuner. Full-power analog TV broadcasting in the United States will end (as required by law) on February 17, 2009, after which full-power TV broadcasts will be digital only. If this device is used after that date to record or display programming from a product with a TV tuner that relies on a TV antenna, that product would need to contain a digital tuner, or a TV Converter would be necessary to tune the digital signal received with a TV antenna. Analog TVs 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 or directly with this product, 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 or 1-888-CALL-FCC. 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.

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.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt as well, and record the model number and serial number of your set in the space provided on the rear cover of these instructions.

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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, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corporation of North America could cause harmful interference and would void the user's authority to operate this device.

FCC Declaration of Conformity

Model No. TH-42PH10UKA, TH-50PH10UKA, TH-58PH10UKA

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 permanent image retention to remain on the Plasma Display.

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

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark 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.

Safety Precautions

^

CAUTION

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.)

(All of	the following accessories are manufactured by Panasonic Corporation.)
Speakers	TY-SP42P8W-K (TH-42PH10UKA), TY-SP50P8W-K (TH-50PH10UKA), TY-SP58P10WK (TH-58PH10UKA)
Pedestal	TY-ST07-K (TH-42PH10UKA, TH-50PH10UKA), TY-ST08-K (TH-42PH10UKA, TH-50PH10UKA), TY-ST58-K (TH-58PH10UKA)
Mobile stand	TY-ST42PF3 (TH-42PH10UKA, TH-50PH10UKA), TY-ST58PF10
Wall-hanging bracket (vertical)	TY-WK42PV7
• Wall-hanging bracket (angled)	TY-WK42PR7
	TY-WK42DR1 (TH-42PH10UKA, TH-50PH10UKA)
Ceiling-hanging bracket	TY-CE42PS7 (TH-42PH10UKA, TH-50PH10UKA)
BNC Component Video Terminal Board	TY-42TM6A
 BNC Composite Video Terminal Board 	TY-42TM6B
BNC Dual Video Terminal Board	
 RCA Component Video Terminal Board 	TY-42TM6Z
• RCA Composite Video Terminal Board	TY-42TM6V
RGB (Digital) Terminal Board	TY-42TM6D
RGB Active Through Terminal Board	
PC Input Terminal Board	TY-42TM6P
Composite / Component Video Terminal Board	TY-42TM6Y
• SDI Terminal Board	
•HD-SDI Terminal Board	
HDMI Terminal Board	
Dual HDMI Terminal Board	TY-FB10HMD
• Touch Panel	TY-TP42P8-S (TH-42PH10UKA), TY-TP42P10S (TH-42PH10UKA),
	TY-TP50P8-S (TH-50PH10UKA), TY-TP50P10S (TH-50PH10UKA),
Ir Through Terminal Board	TY-TP58P10S (TH-58PH10UKA)
Wireless Presentation Board	
AV Terminal Box	
	TY-AR50P9W (TH-50PH10UKA), TY-AR42P9W (TH-42PH10UKA),
Tritti giare filter	TY-AR58P10W (TH-58PH10UKA) TY-FB9TU (TH-50PH10UKA, TH-58PH10UKA)
(Except for Canada and United States of Ame	erica, only Mexico)

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 NORMAL 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, 2 3/8" (6 cm) or more at the bottom, and 2 3/4" (7 cm) or more at the rear. If using some other setting-up method, 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.

■ AC Power Supply Cord

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

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

Accessories Supplied

Check that you have the Accessories and items shown



Operating
Instruction book



Transmitter
EUR7636070R



Remote Control

Batteries for the Remote Control Transmitter (2 × AA Size)



Fixing bands × 2



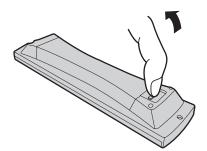
AC cord

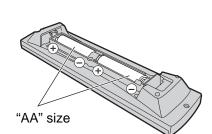


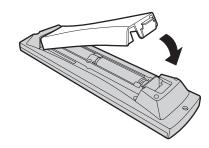
Remote Control Batteries

Requires two AA batteries.

- 1. Pull and hold the hook, then open the battery cover.
- 2. Insert batteries note correct polarity (+ and -).
- 3. Replace the cover.







Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

⚠ 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.

Connections

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. (Example: TH-42PH10UKA) Speakers (Optional accessories) (\bigcirc) (\bigcirc) 1 Speaker terminal (L) Speaker AC cord connection (see page 13) terminal (R) - AC cord fixing Unplug the AC cord Unplug the AC cord pressing the two knobs. Plug the AC cord into the display unit. Note: Plug the AC cord until it clicks. 1 When disconnecting the AC cord, be Note: absolutely sure to disconnect the AC Make sure that the AC cord is locked on both the left and right sides. cord plug at the socket outlet first. Cable fixing bands Secure any excess cables with bands as required. Pass the attached cable To secure cables connected to Terminals, wrap the cable fixing band around them then pass the pointed end through the locking block, as shown in the figure. fixing band through the clip While ensuring there is sufficient slack in cables to minimize stress (especially as shown in the figure. in the power cord), firmly bind all cables with the supplied fixing band. To loosen: To tighten: Push the catch Pull 1 Pull $\Theta \Theta \Theta$ \bigcirc \bigcirc \bigcirc (.....) HDMI AVIN⊸ COMPONENT/RGB IN РĊ IN SERIAL SLOT1 SLOT2 SLOT3 COMPONENT/RGB IN and Optional Terminal **Dual HDMI Terminals** From EXTERNAL From SERIAL Board Insert Slot (equivalent of Dual Audio IN Terminals (equivalent monitor terminal Terminal on (covered) **HDMI** Terminal Board of BNC Component Video on Computer Computer (TY-FB10HMD)) Terminal Board (TY-42TM6A))

Note:

At factory shipment, Terminal boards are installed in SLOT 2 and SLOT 3.

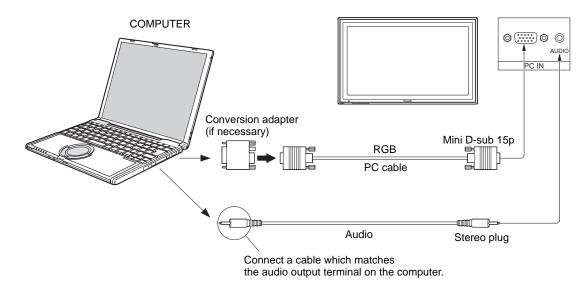
(see page 12)

(see page 11)

(see page 12)

(see page 10)

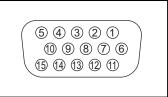
PC Input Terminals connection



Notes:

- Due to space limitations, occasionally you may have trouble connecting Mini D-sub 15P cable with ferrite core to PC input Terminal.
- 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 768 x 768 dots (TH-42PH10UKA), 1,024 x 768 dots (TH-50PH10UKA, TH-58PH10UKA) when the aspect mode is set to "NORMAL", and 1,024 x 768 dots (TH-42PH10UKA), 1,366 x 768 dots (TH-50PH10UKA, TH-58PH10UKA) 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 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). (see page 36)

Signal Names for Mini D-sub 15P Connector

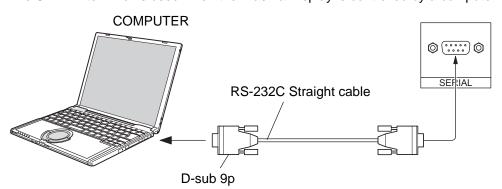


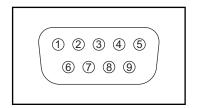
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	$R (P_R/C_R)$	6	GND (Ground)	11)	NC (not connected)
2	G (Y)	7	GND (Ground)	12	SDA
3	B (P _B /C _B)	8	GND (Ground)	13	HD/SYNC
4	NC (not connected)	9	NC (not connected)	14)	VD
5	GND (Ground)	10	GND (Ground)	15	SCL

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 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.

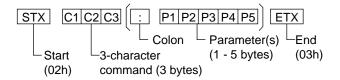
Communication parameters

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

RS-232C Conversion cable				
D-sub 9-pin female	Details			
2	RXD			
3	TXD			
(5)	GND			
4.6	Non use			
⑦ ⑧	Shorted			
1.9	NC			

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.
- SL1A, SL1B, SL2A and SL2B of Command IMS are available only when a dual input terminal board is attached.

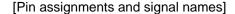
Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio MUTE OFF
AIVIT	1	Audio MUTE ON
IMS	None SL1 SL2 SL3 PC1 SL1A SL1B SL2A SL2B	Input select (toggle) Slot1 input Slot2 input Slot3 input PC input Slot1 input (INPUT1A) Slot1 input (INPUT1B) Slot2 input (INPUT2A) Slot2 input (INPUT2B)
DAM	None NORM ZOOM FULL JUST SELF	Screen mode select (toggle) NORMAL (4 : 3) ZOOM FULL JUST Panasonic AUTO

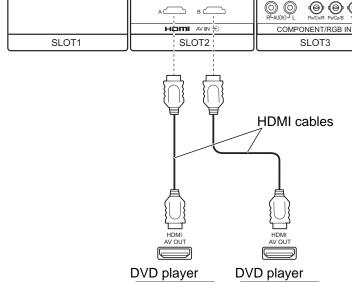
With the power off, this display responds to PON command only.

HDMI connection

This unit has terminal boards equivalent to Dual HDMI Terminal Board (TY-FB10HMD) and BNC Component Video Terminal Board (TY-42TM6A) as standard equipment.



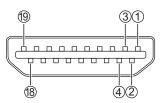
Pin No.	Signal	Pin No.	Signal
1	T.M.D.S Data2+	11)	T.M.D.S Clock Shield
2	T.M.D.S Data2 Shield	12	T.M.D.S Clock-
3	T.M.D.S Data2-	13	CEC
4	T.M.D.S Data1+	_	Reserved
⑤	T.M.D.S Data1 Shield	(4)	(N.C. on device)
6	T.M.D.S Data1-	15	SCL
7	T.M.D.S Data0+	16	SDA
8	T.M.D.S Data0 Shield	17	DDC/CEC Ground
9	T.M.D.S Data0-	18	+5V Power
10	T.M.D.S Clock+	19	Hot Plug Detect



 $\Theta \Theta \Theta$

SLOT3

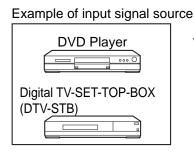
0

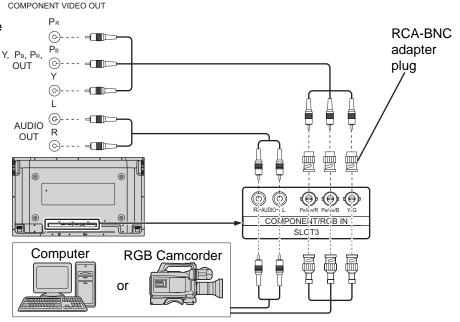


Note:

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

COMPONENT / RGB connection



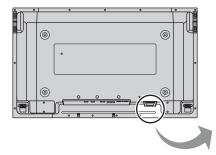


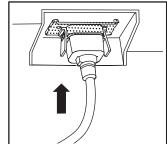
- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT" (when COMPONENT signal connection) or "RGB" (when RGB signal connection). (see page 36)
- Additional equipment, cables and adapter plugs shown are not supplied with this set.
- SYNC ON G signal is needed. (see page 38)

Power ON / OFF

Connecting the AC cord plug to the Plasma Display.

Fix the AC cord plug securely to the Plasma Display. (see page 9)





Connecting the plug to the Wall Outlet

Note:

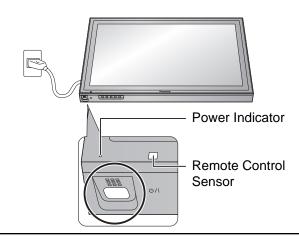
When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

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

Power Indicator: Green

Example: The screen below is displayed for a while after the Plasma Display is turned on. (setting condition is an

example.)



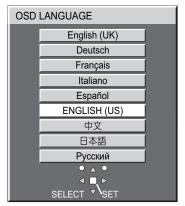
When the POWER is turned on for the first time, the LANGUAGE selection screen is displayed.

From the second time on, language selection can be done from the setup menu. (see page 18)

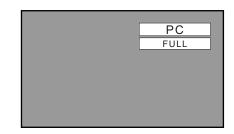
Select the desired language using the ▲ or ▼ button and press the ACTION (■) button.

Note:

Set with the remote control. Buttons on the main unit are unavailable for this setting.



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



OFF

Press the OFF button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

ON

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

Power Indicator: Green

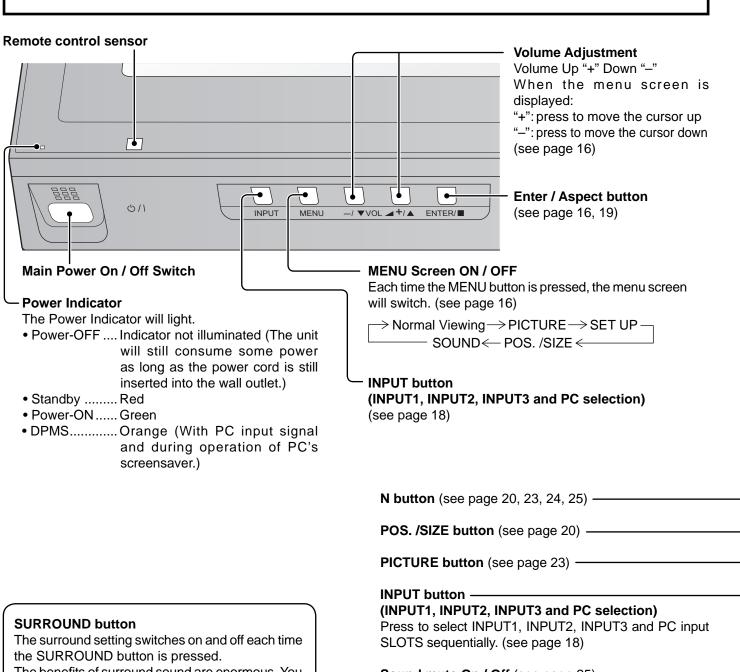
Turn the power to the Plasma Display off by pressing the \circlearrowleft /| switch on the unit, when the Plasma Display is on or in standby mode.

Note:

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



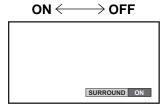
Basic Controls



The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

Note:

The surround settings are memorized separately for each AUDIO MENU (STANDARD, DYNAMIC, CLEAR).



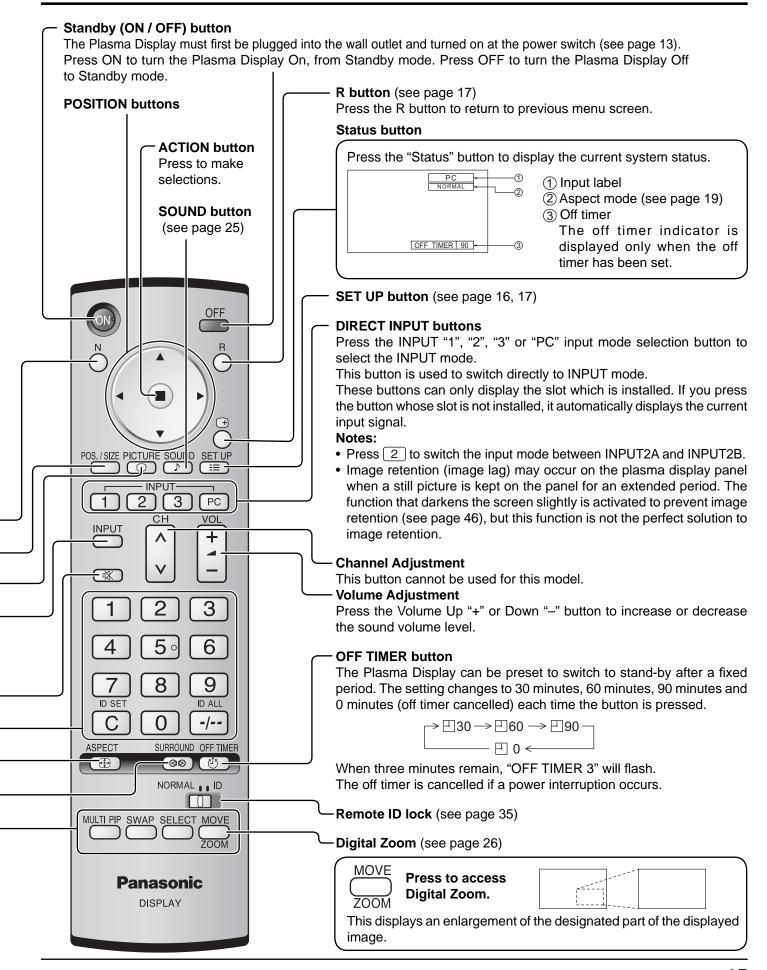
Sound mute On / Off (see page 25) ——

Numeric buttons (see page 35) —

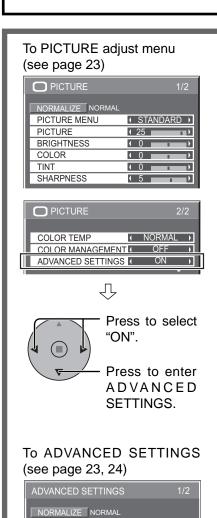
ASPECT button -

Press to adjust the aspect. (see page 19)

MULTI Window buttons (see page 21) _____



On-Screen Menu Displays



BLACK EXTENSION

ADVANCED SETTINGS

INPUT I FVFI

W/B HIGH R

W/B HIGH G

W/B HIGH B

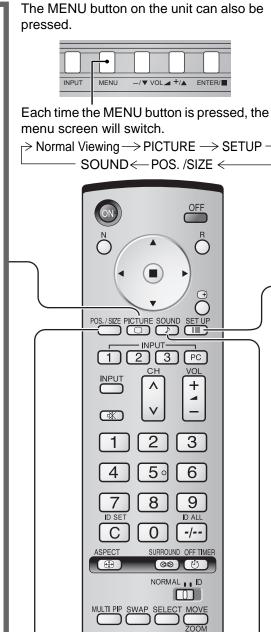
W/B LOW R

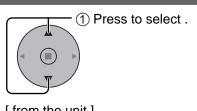
W/B LOW G

W/B LOW B

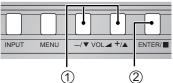
GAMMA

AGC

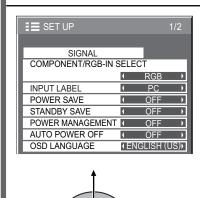


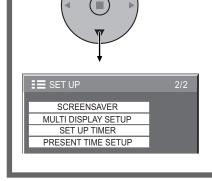


[from the unit]



- 1 Press to select.
- ② Press to access each adjust screen.





To POS. /SIZE adjust menu (see page 20)

↓ 0 **■**

(0 **■**

4 O m

↓ 0

OFF

-

•

Þ

-

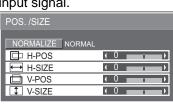
=).

T

- >

П

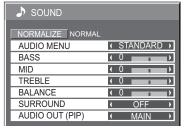
During "VIDEO (S VIDEO)", "COMPONENT" and "Digital" input signal.



During "RGB/PC" input signal.

	_			
POS./SIZE				
NORMALIZE NORMAL				
☐ H-POS	1	0	- 1	-
← H-SIZE	1	0	-	-
☐ V-POS	1	0	1	-
↓ V-SIZE	1	0	- 1	-
→ CLOCK PHASE	1	0	-	_

To SOUND adjust menu (see page 25)

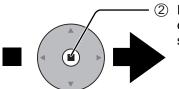


Panasonic

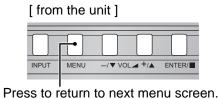
DISPLAY

Note:

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



② Press to access each adjust screen.





Press the R button to return to previous menu.

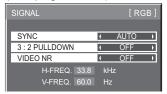
To SIGNAL screen for VIDEO (S VIDEO) (see page 36, 37)

SIGNAL		[VIDE	o]
3D Y/C FILTER (NTSC)	4	ON)
COLOR SYSTEM	1	AUTO	→
3:2 PULLDOWN	1	OFF	→
Panasonic AUTO (4:3)	1	NORMAL)
VIDEO NR	1	OFF	Ŧ

To SIGNAL screen for COMPONENT (see page 37)

	`	1 0	
SIGNAL	[CC	MPONE	NT]
3:2 PULLDOWN	4	OFF	•
VIDEO NR	4	OFF	

To SIGNAL screen for RGB (see page 37, 38)

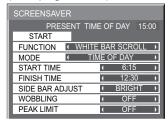


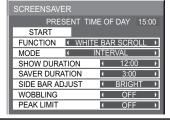
To SIGNAL screen for Digital (see page 37, 38)

SIGNAL	[Digital]
3 : 2 PULLDOWN VIDEO NR	OFF)
H-FREQ. 33.8	kHz
V-FREQ. 60.0	Hz

Note: "SIGNAL" setup menu displays a different setting condition for each input signal. (see page 18)

To setup SCREENSAVER (See page 29-31)



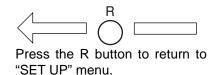


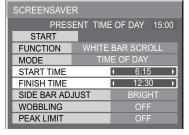
Press to select START TIME/ FINISH TIME (When TIME OF DAY is selected)

Press to select SHOW DURATION/ SAVER DURATION (When

INTERVAL is selected).

Press to set up.





SCREENSAVE	R					
PRES	ENT	TIME	OF	DAY	15:0	0
START						
FUNCTION	WI	HITE	BAF	R SCR	DLL	
MODE		IN	TEF	RVAL		
SHOW DURAT	TION		1	12:0)	F
SAVER DURA	TION		1	3:00		F
SIDE BAR AD	JUST			BRIGH	1T	
WOBBLING				OFF		
PEAK LIMIT				OFF		

To setup MULTIDISPLAY screen. (See page 33)

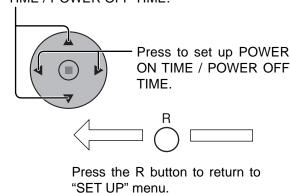
MULTI DISPLAY SETUP (OFF) HORIZONTAL SCALE (× 2)	MULTI DISPLAY SETUP			
HORIZONTAL SCALE (×2)				
	MULTI DISPLAY SETUP	1	OFF	•
	HORIZONTAL SCALE	1	× 2	-
VERTICAL SCALE (× 2)	VERTICAL SCALE	1	× 2	
SEAM HIDES VIDEO (OFF)	SEAM HIDES VIDEO	1	OFF	-
LOCATION (A1)	LOCATION	1	A1	\rightarrow
POWER ON SCREEN DELAY ON	POWER ON SCREEN DELAY	1	ON	

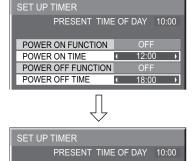
To SET UP TIMER selection screen. (see page 27, 28)

To PRESENT TIME SETUP. (see page 27)

PRESENT TIME SETUP	
PRESENT TIME OF DAY	MON 99:99
SET	
DAY	MON)
PRESENT TIME OF DAY	99:99

Press to select POWER ON TIME / POWER OFF TIME.





SET OF THINLIN	
PRESENT TIME	E OF DAY 10:00
111202111 11111	2 01 2711 10.00
POWER ON FUNCTION	◆ OFF →
POWER ON TIME	12:00
POWER OFF FUNCTION	(OFF)
POWER OFF TIME	18:00
TOWER OF THE	10.00

Initial selections

Selecting the input signal

Select the input signals to be connected by installing the optional Terminal Boards.

INPUT -

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 INPUT1 \rightarrow INPUT2A \rightarrow INPUT2B \rightarrow INPUT3 \rightarrow PC-

SLOT2 is for dual input so that you can select INPUT2A or

INPUT2B for INPUT2.

INPUT2A: HDMI signal terminal in SLOT2 INPUT2B: HDMI signal terminal in SLOT2

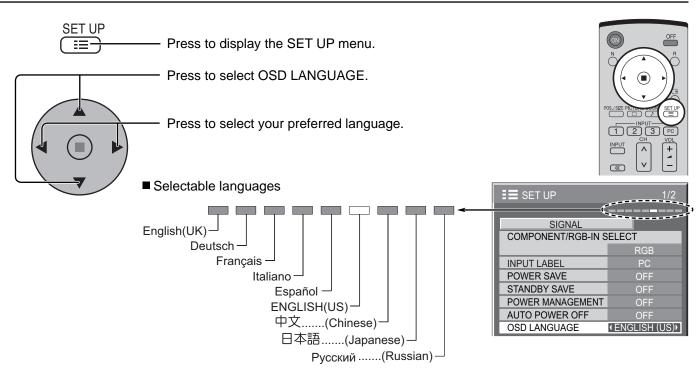


Notes:

- Selecting is also possible by pressing the INPUT button on the unit.
- Input terminal will not be selected if the terminal board is not installed into the SLOT.
- Select to match the signals from the source connected to the component/RGB input terminals. (see page 36)
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.

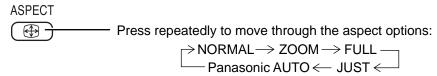


Selecting the On-Screen Menu Language



ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.



Note:

[from the unit]

INPUT MENU -/▼VOL⊿+/▲ ENTER/■

When selecting an input slot that attaches BNC Dual Video Terminal Board (TY-FB9BD), Panasonic AUTO cannot be selected.

The aspect mode changes each time the ENTER button is pressed.

[During MULTI PIP Operations]

Picture and Picture, Picture in Picture : → NORMAL → FULL —

• Others : Aspect switching is not possible.

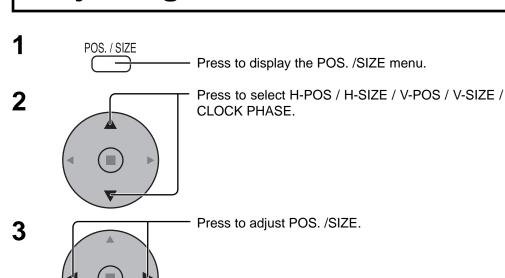
Notes:

- For PC signal input, the mode switches between "NORMAL", "ZOOM" and "FULL" only.
- For a 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p signal input, the mode is set to "FULL" mode, and switching is not possible.
- Panasonic AUTO can be selected only during Video signal input.
- The aspect mode is memorized separately for each input terminal.

Mode	Picture	Explanation
NORMAL	NORMALI 3	NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM	3 → 16 ZOÓM 9 9	ZOOM mode magnifies the central section of the picture.
FULL	3 → 16 FULL 9 9	FULL will display the picture at its maximum size but with slight elongation.
JUST	3 → 16 JUST 9 9	JUST mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic AUTO	For an elongated image Image is expanded Changes in accordance with the Panasonic AUTO mode setting (see page 37). For a 4:3 image	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. Notes: Panasonic AUTO mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to NORMAL. If adjusting the PICTURE V-POS/V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment. Panasonic AUTO can not be selected while BNC Dual Video Terminal Board (TY-FB9BD) is installed.

Note: Do not allow the picture to be displayed in NORMAL mode for an extended period, as this can cause a permanent image retention to remain on the Plasma Display Panel.

Adjusting POS. /SIZE





Notes:

 Adjustment details are memorized separately for different input signal formats. (Adjustments for component signals are memorized for 525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p each, and RGB/PC/Digital signals are memorized for each frequency.)

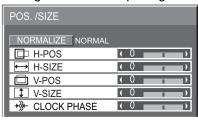
Press to exit from adjust mode.

- If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the POS. /SIZE function.
- If adjusting the PICTURE V-POS / V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

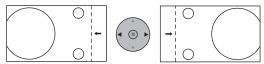
During "VIDEO (S VIDEO)", "COMPONENT" and "Digital" input signal.



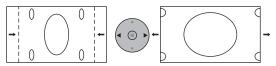
During "RGB / PC" input signal.



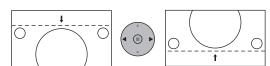
H-POS Adjust the horizontal position.



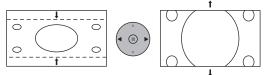
H-SIZE Adjust the horizontal size.



V-POS Adjust the vertical position.



V-SIZE Adjust the vertical size.



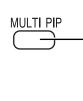
CLOCK PHASE (RGB/PC in mode)

Eliminate the flickering and distortion.

Helpful Hint (NORMALIZE Normalization)

While the POS. /SIZE display is active, if either the N button on the remote control is pressed at any time or the ACTION (**■**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

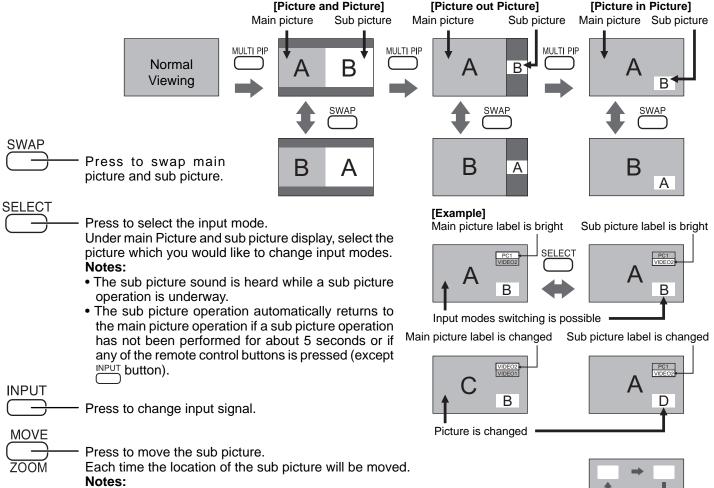
MULTI PIP



Press repeatedly.

Each time pressing this button main picture and sub picture will be displayed as follows below.





Notes:

- If "Input lock" in Options menu is set to other than "Off", MULTI PIP function isn't available.
- Sound output is from the picture which is selected in Audio OUT(PIP) (see page 25).

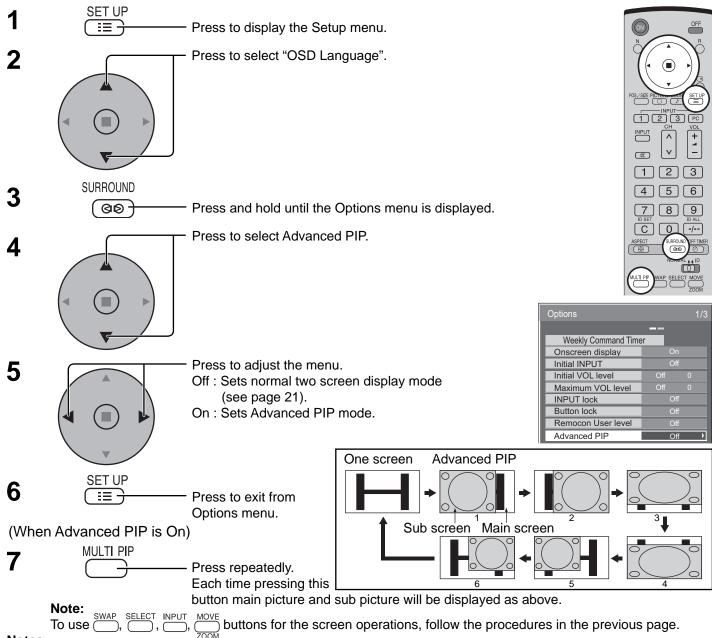
• This button is effective only in the picture in picture.

- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the 2-picture display mode.

• The sub picture may be hidden by the on screen display, depending on its position.

- Due to the small dimensions of the sub pictures, these sub pictures cannot be shown in detail.
- Computer screen picture is displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.
- Following combinations of two analog signals cannot be displayed simultaneously;
 Component Component, Component PC (RGB), PC (RGB) Component, PC (RGB) PC (RGB)

Advanced PIP



Notes:

Advanced PIP corresponding signal

Sub screen	Main screen
NTSC, PAL, SECAM (tuner, video) 525i, 525p, 625i, 625p, 750/60p, 750/50p, 1125/60i, 1125/50i, 1250/50i (Component Video, RGB, DVI, SDI, HDMI)	640x480@60Hz, 852x480@60Hz, 1024x768@60Hz, 1366x768@60Hz (RGB, DVI, HDMI) 1280x768@60Hz (DVI)

- If "Input lock" in Options menu is set to other than "Off", MULTI PIP function isn't available.
- Sound output is from the picture which is selected in Audio OUT (PIP) (see page 25).
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the 2-picture display mode.
- Due to the small dimensions of the sub pictures, these sub pictures cannot be shown in detail.
- Computer screen picture is displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.
- Following combinations of two analog signals cannot be displayed simultaneously:
- Component Component, Component PC (RGB), PC (RGB) Component, PC (RGB) PC (RGB) Refer to each board's operating instruction for DVI, SDI, HDMI's corresponding signals.

PICTURE Adjustments

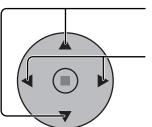
1

PICTURE

Press to display the PICTURE menu.

2 Select to

Select to adjust each item.



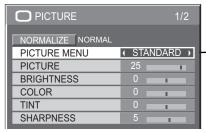
Press to select the menu to adjust.

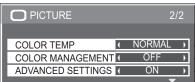
Select the desired level by looking at the picture behind the menu.

Note:

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







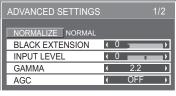


Press to select "ON".

Press to enter Advanced settings.

ADVANCED SETTINGS ON

Enables fine picture adjustment at a professional level (see next page).



ADVANCED SETTINGS				2/2
W/B HIGH R	•	0	_	, i
W/B HIGH G	1	0		١,
W/B HIGH B	1	0	-1	-
W/B LOW R	1	0		-
W/B LOW G	1	0	- 1	-
W/B LOW B	(0		•

ADVANCED SETTINGS OFF

Displays images with settings of the PICTURE menu.

Press the left ◀ or right ▶ button to switch between modes.



STANDARD

For viewing in standard (evening lighting) environments. This menu selects the normal levels of BRIGHTNESS and PICTURE.

DYNAMIC

For viewing in brighter environments.

This menu selects higher than normal levels of BRIGHTNESS and PICTURE.

CINEMA

Ideal for movies.

Note:

If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (see next page)

Press the left ◀ or right ▶ button to switch between modes.

 \rightarrow NORMAL \longleftrightarrow COOL \longleftrightarrow WARM \leftarrow

COLOR MANAGEMENT ON

Enables vivid color adjustment automatically.

Helpful Hint (\(\cdot \) | NORMALIZE | Normalization)

While the "PICTURE" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (**■**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

PICTURE Adjustments

Item	Effect		Adjustments	
PICTURE	Less	More	Adjusts the proper picture contrast.	
BRIGHTNESS	Darker	Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.	
COLOR	Less	More	Adjusts color saturation.	
TINT	Reddish	Greenish	Adjusts for natural flesh tones.	
SHARPNESS	Less	More	Adjusts picture sharpness.	

Notes:

- "COLOR" and "TINT" settings cannot be adjusted for "RGB/PC" and "Digital" input signal.
- You can change the level of each function (PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE MENU.
- The setting details for STANDARD, DYNAMIC and CINEMA respectively are memorized separately for each input terminal.
- The "TINT" setting can be adjusted for NTSC signal only during "VIDEO (S VIDEO)" input signal.
- In PICTURE, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

ADVANCED SETTINGS

Item Effect		ect	Details
BLACK EXTENSION	Less	More	Adjusts the dark shades of the image in gradation.
INPUT LEVEL	Less	More	Adjustment of parts which are extremely bright and hard to see. (This cannot be adjusted when the input signal is Digital.)
GAMMA	Down	Up	$S CURVE \longleftrightarrow 2.0 \longleftrightarrow 2.2 \longleftrightarrow 2.5$
AGC	OFF	ON	Increases the brightness of dark signal automatically.
W/B HIGH R	Less	More	Adjusts the white balance for light red areas.
W/B HIGH G	Less	More	Adjusts the white balance for light green areas.
W/B HIGH B	Less	More	Adjusts the white balance for light blue areas.
W/B LOW R	Less	More	Adjusts the white balance for dark red areas.
W/B LOW G	Less	More	Adjusts the white balance for dark green areas.
W/B LOW B	Less	More	Adjusts the white balance for dark blue areas.

Notes:

- Carry out "W/B" adjustment as follows.
 - 1. Adjust the white balance of the bright sections using the "W/B HIGH R", "W/B HIGH G" and "W/B HIGH B" settings.
 - 2. Adjust the white balance of the dark sections using the "W/B LOW R", "W/B LOW G" and "W/B LOW B" settings.
 - 3. Repeat steps 1 and 2 to adjust.

Steps 1 and 2 affect each other's settings, so repeat each step in turn to make the adjustment.

- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.

Helpful Hint (\(\sum / NORMALIZE \) Normalization)

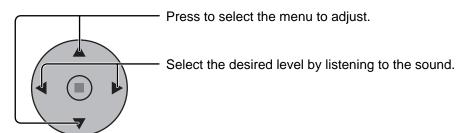
On the remote control unit, while the "ADVANCED SETTINGS" menu is displayed, if either the N button is pressed at any time or the ACTION (**a**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

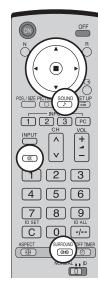
SOUND Adjustment

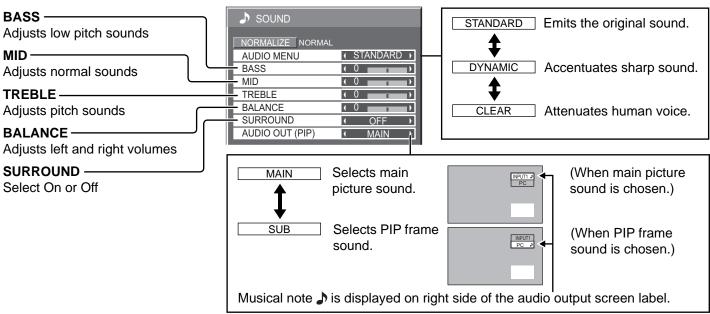
SOUND

Press to display the SOUND menu.

2 Select to adjust each item.







Notes:

- Press the SURROUND button to directly turn the surround effect ON and OFF. (see page 14)
- BASS, MID, TREBLE and SURROUND settings are memorized separately for each AUDIO MENU.

Helpful Hint (\(\simeq \) NORMALIZE Normalization)

While the "SOUND" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (**■**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

MUTE

Useful when answering the phone or receiving unexpected visitors.

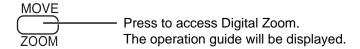
Press this button to mute the sound.

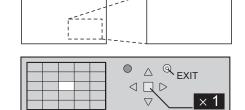
Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

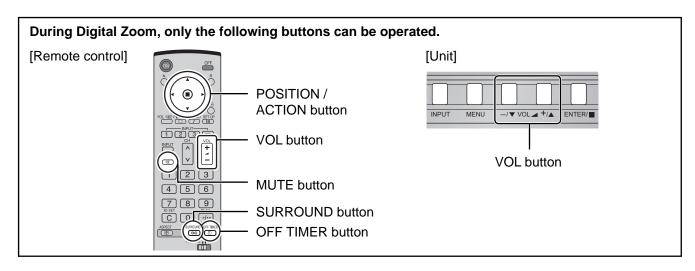
Digital Zoom

This displays an enlargement of the designated part of the displayed image.

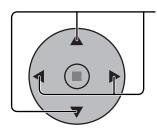
1 Display the operation guide.



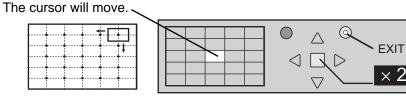




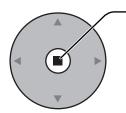
2 Select the area of the image to be enlarged.



Press on the enlargement location to select.



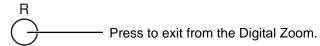
3 Select the magnification required for the enlarged display.



Each time this is pressed, the magnification factor changes. This is shown in the image being displayed.



4 Return to normal display (quit Digital Zoom).



Notes:

- When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state: "Multi-viewer" (Picture in Picture, Picture out Picture, Picture and Picture) operation. (see page 21)
- While Digital Zoom is in operation, "Adjusting POS. /SIZE" cannot be used.

PRESENT TIME SETUP / SET UP TIMER

The timer can switch the Plasma Display ON or OFF.

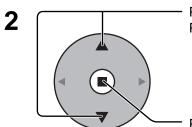
Before attempting Timer Set, confirm the PRESENT TIME OF DAY and adjust if necessary. Then set POWER ON TIME / POWER OFF TIME.

1



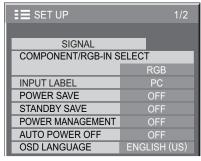
Press to display the SET UP menu.

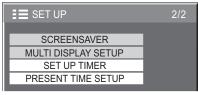




Press to select SET UP TIMER or PRESENT TIME SETUP.

Press to display the SET UP TIMER screen or PRESENT TIME SETUP screen.



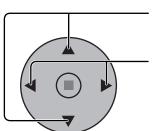


PRESENT TIME SETUP

Display the PRESENT TIME SETUP screen.

To set up DAY and PRESENT TIME OF DAY, follow the procedure described below.

1



Press to select DAY or PRESENT TIME OF DAY.

Press to set up DAY or PRESENT TIME OF DAY.

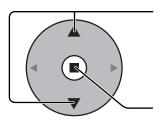
▶ button: Forward

■ button: Back

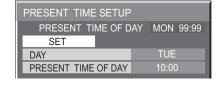
Notes:

- Pressing "◄" or "▶" button once changes PRESENT TIME OF DAY 1minute.
- Pressing "◄" or "▶" button continuously changes PRESENT TIME OF DAY by 15 minutes.

2



Press to select SET.



PRESENT TIME SETUP

PRESENT TIME OF DAY

PRESENT TIME OF DAY MON 99:99

MON

Press to store PRESENT TIME SETUP.

Notes:

- SET cannot be selected unless PRESENT TIME OF DAY is set.
- Unless setting the present time other than "99:99", DAY setting is invalid.

3

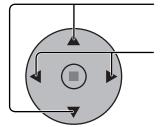


Press to exit from PRESENT TIME SETUP.

SET UP TIMER

Display the SET UP TIMER SCREEN.

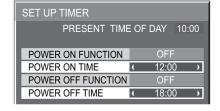
1



Press to select POWER ON TIME / POWER OFF TIME.

Press to set up POWER ON TIME / POWER OFF TIME.

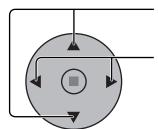
► button: Forward **◆** button: Back



Notes:

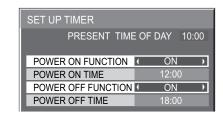
- Pressing "◄" or "▶" button once changes POWER ON TIME / POWER OFF TIME 1minute.
- Pressing "◄" or "▶" button continuously changes POWER ON TIME / POWER OFF TIME by 15 minutes.

2



Press to select POWER ON FUNCTION / POWER OFF FUNCTION.

Press to select ON.



3



Press twice to exit from SET UP.

Note:

Timer function will not work unless "PRESENT TIME OF DAY" is set.

SCREENSAVER (For preventing image retention)

Do not display a still picture, especially in NORMAL mode, for any length of time. If the display must remain on, a SCREENSAVER should be used.

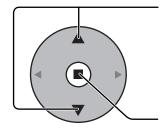
1

SET UP

Press to display the SET UP menu.

2

Press to select the SCREENSAVER.



Press to select the SCREENSAVER screen.

SCREENSAVER MULTI DISPLAY SETUP SET UP TIMER PRESENT TIME SETUP

PRESENT TIME OF DAY 99:99

WHITE BAR SCROLL →

SCREENSAVER

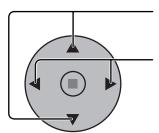
START

SIDE BAR ADJUST WOBBLING PEAK LIMIT

FUNCTION

MODE START TIME FINISH TIME

3 NEGATIVE / SCROLL selection



Press to select the FUNCTION.

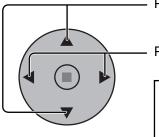
Press to select the desired function.

WHITE BAR SCROLL ← NEGATIVE

WHITE BAR SCROLL: A white bar will scroll from left to right.

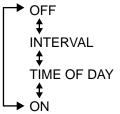
NEGATIVE: A negative image will be displayed on the screen.

4 MODE selection



Press to select the MODE.

Press to select each mode items.



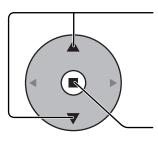
- : Operates when SHOW DURATION and SAVER DURATION are set up and those times arrive.
- : Operates when START TIME and FINISH TIME are set up and those times arrive.
- : Operates when START is selected and the ACTION (**a**) button is pressed.

SCREENSAVER

START

FUNCTION W
MODE
START TIME
FINISH TIME
SIDE BAR ADJUST
WOBBLING
PEAK LIMIT

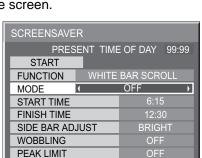
5 START setting



When the MODE is set to ON, press to select START.

Press to start SCREENSAVER.

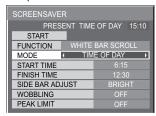
The menu screen will disappear and the SCREENSAVER will be activated. **To stop the SCREENSAVER under ON, press the R button.**

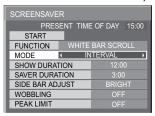


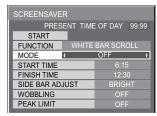
PRESENT TIME OF DAY 99:99

Setup of SCREENSAVER Time

After selecting TIME OF DAY or INTERVAL, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when "MODE" is "ON" or "OFF".)







START

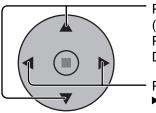
FUNCTION MODE

START TIME

FINISH TIME

WOBBLING

SIDE BAR ADJUST



Press to select START TIME / FINISH TIME (When TIME OF DAY is selected).

Press to select SHOW DURATION / SAVER DURATION (When INTERVAL is selected).

Press to setup.

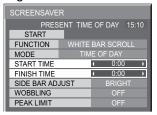
button: Forward

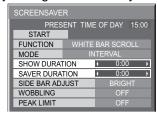
Notes:

◆ button: Back

Pressing "◄" or "▶" button once changes the Time 1minute.
 [However, switching occurs every 15 minutes when Periodic Time is selected.]

Pressing "◄" or "▶" button continuously changes the Time by 15 minutes.







SCREENSAVER

PRESENT TIME OF DAY 15:00

START

FUNCTION WHITE BAR SCROLL

MODE INTERVAL

SHOW DURATION 12:00 >

SAVER DURATION 3:00 >

SIDE BAR ADJUST BRIGHT

WOBBLING OFF

PEAK LIMIT OFF

PRESENT TIME OF DAY 15:00

WHITE BAR SCROLL

← 6:15

-

Note: Timer function will not work unless "PRESENT TIME OF DAY" is set.

Reduces screen image retention

These functions prevent the occurrence of an "image retention" on the display when turned ON.

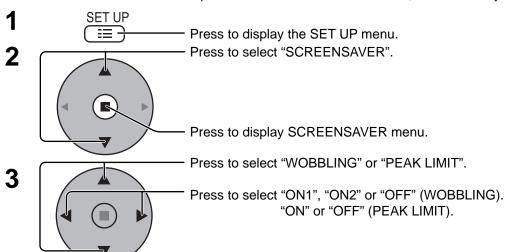
WOBBLING: Automatically shifts the display image (therefore unnoticeable to the eye) to prevent image retention of sharper contour of image.

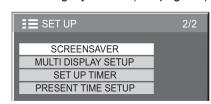
ON1: Shifts the image every 30 seconds.

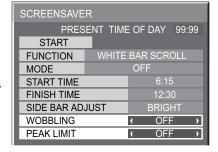
ON2: Shifts the image at a dot level pitch depending on screen-detection.

PEAK LIMIT: Suppresses image contrast (peak brightness).

Note: When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 46)



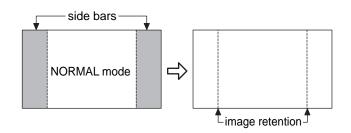




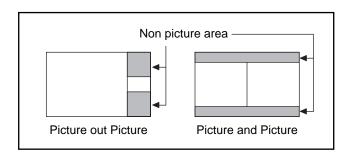
SIDE BAR ADJUST

Do not display a picture in NORMAL mode for an extended period, as this can cause an image retention to remain on the side bars on either side of the display field.

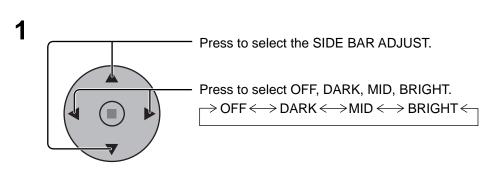
To reduce the risk of such an image retention, change the brightness of the side bars.

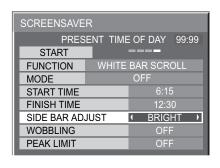


This function may be applicable to the non-picture area.



Display the SCREENSAVER screen. (Refer to the previous page, operation guide steps 1 and 2)





Notes:

• To reduce the occurrence of image retention, set the SIDE BAR ADJUST to BRIGHT.

Press to exit from SCREENSAVER.

• The side bar may flash (alternate black/white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

Reduces power consumption

POWER SAVE: When this function is turned ON, luminous level of the Plasma Display is suppressed, so

power consumption is reduced.

STANDBY SAVE: When this function is turned ON, power consumption of the microcomputer is reduced

during power supply standby (see page 13-15), so standby power of the set is reduced.

The unit power supply is turned ON or OFF depending on whether or not there is a signal POWER MANAGEMENT:

during PC input mode.

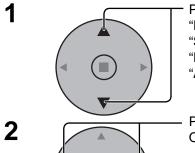
This function is enabled when it is turned ON. (Only during input from PC(Mini D-sub)

terminal)

AUTO POWER OFF: Equipment power supply is turned OFF when there is no signal.

When this is set to On, the power supply of the unit goes Off 10 minutes after the input

This function is effective for input signals except input from PC (Mini D-sub) terminal.



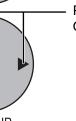
Press to select

"POWER SAVE"

"STANDBY SAVE"

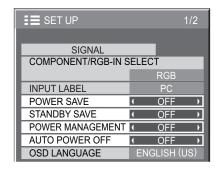
"POWER MANAGEMENT"

"AUTO POWER OFF".



Press to select "ON" or "OFF".

 $On \longleftrightarrow Off$



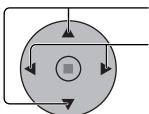
Note:

SET UP Press to exit from SET UP.

"POWER MANAGEMENT" and "AUTO POWER OFF" are effective during normal viewing (one picture screen) only.

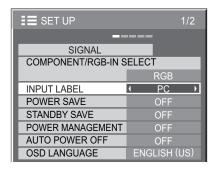
Customizing the Input labels

This function can change the label of the Input signal to be displayed. Select the input signal which you would like to change its label before customizing the Input labels. (see page 15, 18)



Press to select INPUT LABEL.

Press to change the INPUT LABEL.



While selecting a Input signal through Optional Terminal Board connected to Slot 1, Slot 2 and Slot 3, the Input label will depend on each Optional Terminal Board.

INPUT LABELS for Slot 1, Slot 2, Slot 3 and Mini D-sub:

[Slot1 Input] INPUT1/VIDEO1/COMPONENT1/RGB1/DIGITAL1/PC1/DVD1/CATV1/VCR1/STB1 INPUT2/VIDEO2/COMPONENT2/RGB2/DIGITAL2/PC2/DVD2/CATV2/VCR2/STB2 [Slot2 Input]

[Slot3 Input] INPUT3/VIDEO3/COMPONENT3/RGB3/PC3/DVD3/CATV3/VCR3/STB3

[PC (Mini D-sub) input] PC/COMPONENT/RGB/DVD/STB

When BNC Dual Video Terminal Board (TY-FB9BD) is used, an "A" or "B" is added at the end of each input label, depending on the input selected (see below).

Addition sign	"A"	"B"
Selected Input	Composite	S VIDEO

SET UP for MULTI DISPLAY

By lining up Plasma Displays in groups, for example, as illustrated below, an enlarged picture may be displayed across all screens.

For this mode of operation, each plasma display has to be set up with a Display number to determine its location.

(Example)

group of 4 (2×2)





group of 16 (4×4)



(see page 34 for more displays lineups.)

How to setup MULTI DISPLAY

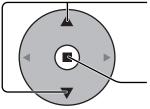
1



Press to display the SET UP menu.



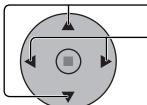
2



Press to select the MULTI DISPLAY SETUP.

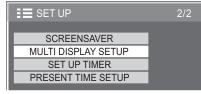
Press to display the "MULTI DISPLAY SETUP" menu.

3



Press to select the MULTI DISPLAY SETUP.

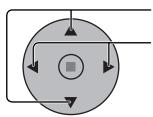
Press to select "ON" or "OFF".



MULTI DISPLAY SETUP				
MULTI DISPLAY SETUP	(OFF)			
HORIZONTAL SCALE	× 2			
VERTICAL SCALE	× 2			
SEAM HIDES VIDEO	OFF			
LOCATION	A1			
POWER ON SCREEN DELAY	ON			

How to set the Display location number for each Plasma Display

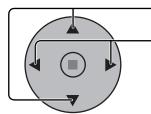
4



Press to select HORIZONTAL SCALE.

Press to select "x 1", "x 2", "x 3", "x 4".

5

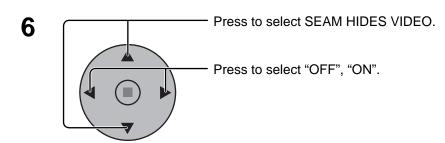


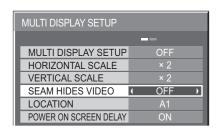
Press to select VERTICAL SCALE.

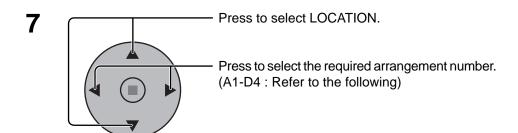
Press to select "x 1", "x 2", "x 3", "x 4".

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
HORIZONTAL SCALE	(× 2)
VERTICAL SCALE	× 2
SEAM HIDES VIDEO	OFF
LOCATION	A1
POWER ON SCREEN DELAY	ON

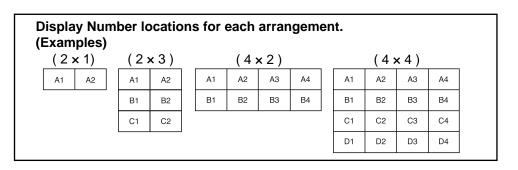
MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
HORIZONTAL SCALE	× 2
VERTICAL SCALE	(× 2)
SEAM HIDES VIDEO	OFF
LOCATION	A1
POWER ON SCREEN DELAY	ON





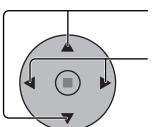


MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	ON
HORIZONTAL SCALE	× 2
VERTICAL SCALE	× 2
SEAM HIDES VIDEO	OFF
LOCATION	← A1 →
POWER ON SCREEN DELAY	ON



8 POWER ON SCREEN DELAY

Turning the power on for the multiple displays system, each display is turned on with a time lag to reduce the power load.



Press to select POWER ON SCREEN DELAY.

Press to select OFF or ON.

OFF: All the display turns on simultaneously.

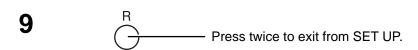
ON: Each display turns on in the order of LOCATION.

Delay time=LOCATION (difference from A1) × 1 sec.

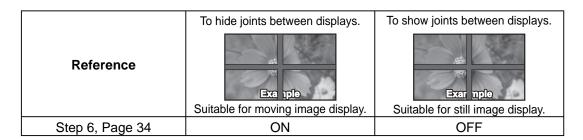
Example) Case of B2 in 4 x 2 \rightarrow A1, A2, A3, A4, B1, B2 \rightarrow 5 sec.

Notes:

- This setting is valid when MULTI DISPLAY SETUP is ON.
- During this function is working, the power indicator is blinking green.
- This function also works when the power recovers from failure or after plugging off and in again the power cord.
 If unplugging and plugging the power cord while the unit is in standby mode and the power is being supplied to the board, each unit has time delay to start supplying the power to the attached board according to LOCATION, and the power indicator lights up red first and it turns orange when the power starts being supplied to the board.



SEAM HIDES VIDEO Setting



ID Remote Control Function

You can set the remote control ID when you want to use this remote control on one of several different displays.

- Switch NORMAL ... ID to NORMAL ... ID on the right side.
- $2 \quad \text{Press the } \overset{\text{\tiny D.SET}}{\text{\tiny C}} \text{ button on the remote control.}$
- **3** Press one of 1 9, 0 for the tens digit setting.
- 4 Press one of 1 9, 0 for the units digit setting.

Notes:

- The numbers in 2, 3 and 4 should be set up quickly.
- Adjustable ID number range is 0 99.
- If a number button is pressed more than two times, the first two numbers become the ID number for the remote control.

ID remote control button operation

The operation is the same as normal remote control except for the buttor

ID Cancellation

Press -/-- button on remote control. (This has the same effect as pressing the C, O, O buttons at the same time.)

Notes:

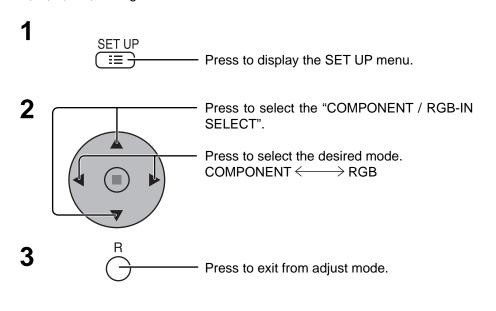
- Set the Remote ID "On" to operate the ID remote control.
 If Remote ID is set to "On", you can use the remote control without identical ID number during option menu display.
 (see page 41)
- The ID remote control cannot be used when ID select is set to anything other than 0, and the remote control ID is not the same as the ID select number (see page 41).



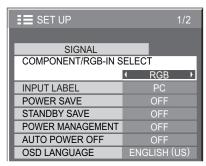
SET UP for Input Signals

COMPONENT / RGB IN SELECT

Select to match the signals from the source connected to the COMPONENT / RGB input terminals. Y, P_B, P_R signals \Longrightarrow "COMPONENT" R, G, B, HD, VD signals \Longrightarrow "RGB"







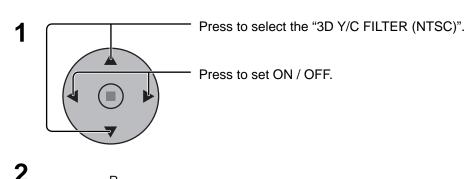
Note:

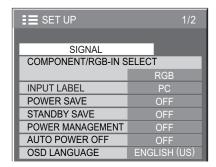
Selection may not be possible, depending on which optional board is installed.

3D Y/C FILTER - For NTSC AV images

Select "SIGNAL" from the "SET UP" menu during VIDEO (S VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)

Press to exit from adjust mode.





Press ACTION (■) button

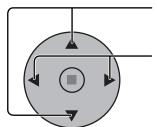
[VIDEO]
(ON)
AUTO
OFF
NORMAL
OFF

Note:

When ON, this setting only affects NTSC input signals.

COLOR SYSTEM / Panasonic AUTO

Select SIGNAL from the "SET UP" menu during VIDEO (S VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)

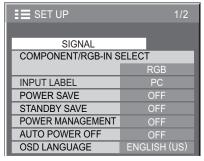


Press to select the "COLOR SYSTEM" or "Panasonic AUTO".

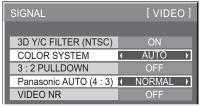
Press to select each function.

If the image becomes unstable:

With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.



Press ACTION (■) button



Mode	Function			
COLOR SYSTEM	Set the color system to match the input signal. When selecting "AUTO", the color system is automatically selected from NTSC/PAL/SECAM, however, M.NTSC signal is not displayed properly depending on the attached terminal board. To display M.NTSC signal, select "M.NTSC" in COLOR SYSTEM. AUTO > PAL > SECAM > M.NTSC > NTSC			
Panasonic AUTO (4:3)	Set to "NORMAL" to view 4:3 images in an unchanged format when Panasonic AUTO is selected. If you would like to view 4:3 images in Just format, set to "JUST".			

Note:

Panasonic AUTO does not function when BNC Dual Video Terminal Board (TY-FB9BD) is used.

3:2 PULLDOWN / VIDEO NR

3:2 PULLDOWN: When ON, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.

If the picture is not stable, turn the setting to OFF.

Notes:

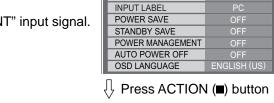
When ON, this setting only affects the following signal input:

- NTSC / PAL signal input during "VIDEO (S VIDEO)" input signal.
- 525i(480i), 625i(575i), 1125(1080)/60i signal input during "COMPONENT" input signal.

VIDEO NR: Automatically reduces unwanted picture noise.

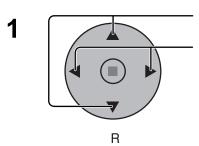
Note:

VIDEO NR cannot be adjusted while a PC signal is being applied.



≣ SET UP

SIGNAL COMPONENT/RGB-IN SELECT



Press to select 3:2 PULLDOWN or VIDEO NR. Press to set ON/OFF.

		MPONE	ИТЛ
3 : 2 PULLDOWN	(OFF	
VIDEO NR	(OFF	$\overline{}$

OFF

OFF



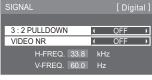
3D Y/C FILTER (NTSC)

Panasonic AUTO (4:3)

COLOR SYSTEM

3:2 PULLDOWN

VIDEO NR



Press to exit from adjust mode.

SYNC

Select SIGNAL from the "SET UP" menu during RGB input signal.

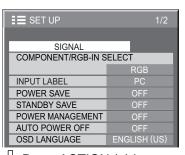


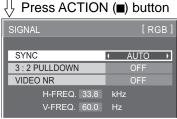
Press to exit from adjust mode.

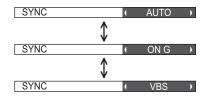
Setting RGB sync signal

Confirm that the input is set to RGB INPUT (this setting is valid only for RGB INPUT signal).

- AUTO: The H and V sync or synchronized signal are automatically selected. If both input, it is selected the H and V sync.
- ON G: Uses a synchronized signal on the Video G signal, which is input from the G connector.
- VBS: Uses a synchronized signal of Composite Sync input, which is input from the HD connector.







REFRESH RATE

This function sets the refresh rate of the display.

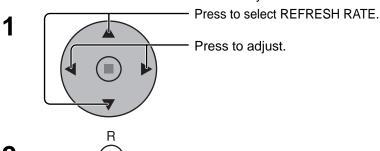
This menu is displayed when the input signal is 50 Hz system (50i, 50p, 25p, 24p, 24sF) of vertical scan rate.

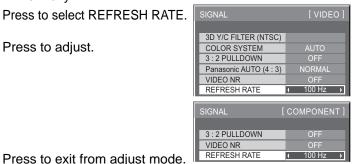
100 Hz: Reduce screen flicker.

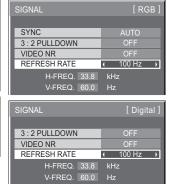
50 Hz: Enhance the resolution of moving images.

Note:

It is recommended to set to 100 Hz normally.







H-FREQ. (kHz) / V-FREQ. (Hz)

Displays the H (Horizontal) / V (Vertical) frequencies.

This display is valid only for RGB/PC and Digital input signal. Display range:

Horizontal 15 - 110 kHz Vertical 48 - 120 Hz

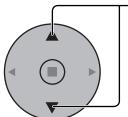


Options Adjustments

1 SET UP

| SET UP | Press to display the Setup menu.

Press to select "OSD Language".



SURROUND

Press and hold until the Options menu is displayed.

Press to select your preferred menu.



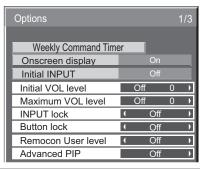
5

Press to adjust the menu.

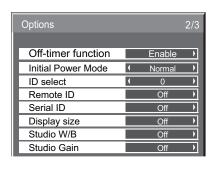
SET UP
Press to exit from Options menu.

Options			1/3
Weekly Command Tim	er		
Onscreen display		On)
Initial INPUT	1	Off)
Initial VOL level	Off	()
Maximum VOL level	Off	()
INPUT lock		Off	
Button lock	Off		
Remocon User level	evel Off		
Advanced PIP		Off	

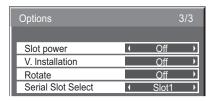
Item	Effect	Adjustments
Weekly Command Timer		Sets Weekly Command Timer. (see page 43)
Onscreen display	On Off	 On: Displays all the following on screen. Power on display Input signal switch display No signal display Mute and the remaining time of off-timer after was pressed. Off: Hides all the items above from view.
Initial INPUT	 	Off ←> PC ←> INPUT1 ←> INPUT2 ←> INPUT3 Adjusts the input signal when the unit is turned on. Notes: • Only the adjusted signal is displayed. (see page 18) • Signal can be displayed when the Terminal board is installed. • This menu is available only when "INPUT lock" is "Off". • When a dual input terminal board is attached, A or B is displayed depending on the selected input signal. (Ex. INPUT1A, INPUT1B)



Item	Effect	Adjustments			
Initial VOL level	Off On	Press button to adjust the volume when the unit is turned on. Off On Off: Sets normal volume. On: Sets your preferred volume. Notes: • When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range • You can hear the changed volume regardless of your volume setting before opening the options men if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.			
Maximum VOL level	Off On	Press button to adjust the maximum volume. Off On Off: Sets auto maximum volume. On: Sets your preferred maximum volume. Notes: If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level". The volume display can go up to 63 regardless of the settings. You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.			
INPUT lock	 	Off ←> PC ←> INPUT1 ←> INPUT2 ←> INPUT3 Locks the input switch operation. Notes: Only the adjusted signal is displayed (see page 18). Signal can be displayed when the Terminal board is installed. Input switch can be used when this is set to "Off". In two screen display mode, if anything other than "Off" is set, the value will be fixed as the value input in the single screen display mode. When a dual input terminal board is attached, A or B is displayed depending on the selected input signal. (Ex. INPUT1A, INPUT1B)			
Button lock	 	Off ← MENU&ENTER ← On Off: All the buttons at the bottom of the main unit can be used. MENU&ENTER: Locks □ and □ buttons on bottom face of main unit. On: Locks all the button on bottom face of main unit. Sets Button lock with the unit buttons in the following procedure. Off: Press □ four times→Press □ four tim			
Remocon User level	 	Off \longleftrightarrow User1 \longleftrightarrow User2 \longleftrightarrow User3 Off: You can use all of the buttons on the remote control. User1: You can only use , OFF, NPUT, 12 3 PC, O, SURROUND, SURROUND, OFF, buttons on the remote control. User3: Locks all the buttons on remote control.			
Advanced PIP	Off On	Off: Sets normal two screen display mode (see page 21). On: Sets Advanced PIP mode (see page 22). Notes: • When "INPUT lock" is "On", you cannot use all the two screen display functions. • (a), (c) buttons are unavailable during Advanced PIP mode operation.			



Item	Effect	Adjustments		
Off-timer function	Enable Disable	Enable: Enables the "Off-timer function". Disable: Disables the "Off-timer function". Note: When "Disable" is set, the Off-timer is cancelled.		
Initial Power Mode	4 >	Normal Standby Standby On Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again. Normal: Power returns in as the same state as before the power interruption. Standby: Power returns in standby mode. (Power Indicator : red/orange) Dn: Power returns in power On. (Power Indicator : green) Note: When using multiple displays, "Standby" is preferred to be set in order to reduce a power load.		
ID select	▲ ▶	Sets panel ID number when panel is used in "Remote ID" or "Serial ID". Set value range: 0 - 100 (Standard value: 0)		
Remote ID	Off On	Off: Disables ID remote control functions. You can use normal remote control operations. On: Enable ID remote control functions.		
Serial ID	Off On	Sets the panel ID Control. Off: Disables external control by the ID. On: Enables the external control by the ID.		
Display size	Off On	Adjusts the image display size on screen. Off: Sets the normal image display size on screen. On: Sets the image display size approximately 95 % of the normal image display. Off On Notes: This setting is valid only when the input signals are as follows; NTSC, PAL, SECAM, M.NTSC, PAL60, PAL-M, PAL-N (BNC Dual Video Terminal Board (TY-FB9BD)) 525i, 525p, 625i, 625p, 750/60p, 750/50p, 1125/60i, 1125/50i, 1125/24sF, 1125/25p, 1125/24p, 1125/30p, 1250/50i (Component Video, RGB, DVI, SDI, HDMI) This setting is invalid when two screen display, digital zoom or Multi screen is selected. When "Display size" is set to "On", "POS. /SIZE" adjustment cannot be used. Refer to each board's operating instruction for DVI, SDI, HDMI's corresponding signals.		
Studio W/B	Off On	Off: Nullify all the settings adjusted. On: Sets the color temperature for TV studio. Note: Valid only when the low is set as color temperature on screen adjustment.		
Studio Gain	Off On	Sharpens the contrast for a better view when a part of the image is too light to see. Off: Disables "Studio Gain". On: Enables "Studio Gain". Note: This setting is valid only when the input signals are as follows: Component Video, RGB (analog), SDI, HDMI		



Item	Effect	Adjustments
Slot Power	*	Off ←→ Auto ←→ On Off: Power is not transmitted to the slot power. Auto: Power is transmitted to the slot power only when main power is on. On: Power is transmitted to the slot power when main power is on or in the standby state. Note: In some cases, power is transmitted to the slot power when main power is on or in the standby state regardless of the slot power setting.
V.Installation	Off On	Off: Sets fan to the horizontal installation mode. On: Sets fan to the vertical installation mode. Notes: • This functions when display is turned on. • Turn up the power switch for the upward direction when you set Display vertically.
Rotate	Off On	Off: Does not rotate the image. On: Rotates the image 180 degrees.
Serial Slot Select	◆	Slot1 Slot2 Slot3 Selects the slot which communicates serial. Note: The setting of an external command can be set only from the fixed serial terminal. (see page 11)

Normalization

When both main unit buttons and remote control are disabled due to the "Button lock", "Remocon User level" or "Remote ID" adjustments, set all the values "Off" so that all the buttons are enabled again.

Press the $\bigcap_{x \in \mathbb{Z}}$ button on main unit together with $\bigcap_{x \in \mathbb{Z}}$ button on the remote control and hold for more than 5 seconds. The "SHIPPING" menu is displayed and the lock is released when it disappears.

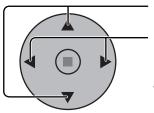
Weekly Command Timer

You can set 7-day timer programming by setting time and command.

Note:

Before setting Weekly Command Timer, set PRESENT TIME SETUP. (see page 27)

1



Press to select Function.

Press to select "On".

Note:

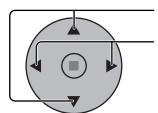
 When Function is set to On, SET UP TIMER (see page 28) is unavailable and INTERVAL / TIME OF DAY in MODE of SCREENSAVER (see page 29) cannot be selected.



Press ACTION (■) button



2



Press to select a day.

Press to select a program number.

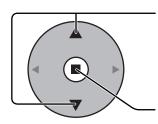
Note:

You can set the program from 1 to 7.
 --- indicates unset.



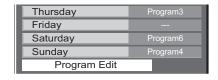
Program number

3

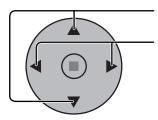


Press to select Program Edit.

Press to show the Program Edit screen.



4



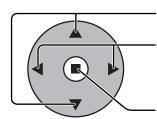
Press to select Program.

Press to change the program numbers (1-7).

Program Edit screen



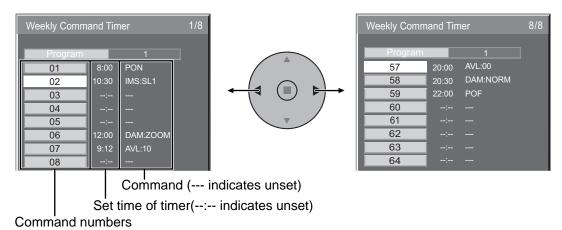
5



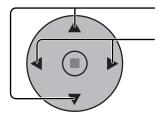
Press to select a command number.

Press to show the previous / next command pages (1-8) of the selected program.

Press to show the command setting screen.



6



Press to select Command No.

Press to select a command number.

Command setting screen

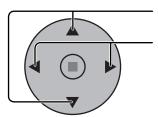
Weekly Command Timer

Command No

Command I



7



Press to select Time / Command.

Press to set each item.

Time: Set the time to execute a command program.

Pressing "◀" or "▶" button once changes

"Time" 1 minute.

Pressing "◀" or "▶" button continuously changes "Time" by 15 minutes.

Command: Select a command to execute at the set time. This unit has 64 commands to set. (see page 48)

Notes:

- Command is performed in order of execution time, regardless of the command number.
- If a command execution time overlaps with that of other commands, these commands are performed in number order.
- Pressing N, Time becomes --:-- and Command becomes ---.

Note:

• Press on to return to the previous screen.

Shipping condition

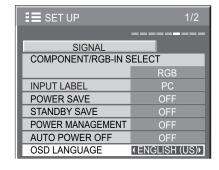
This function allows you to reset the unit to the factory setting.



Press to select "OSD LANGUAGE".

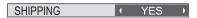


Press and hold till the SHIPPING menu is displayed.



Press to select "YES".

Press to confirm.



[from the unit]

- 1 Press the MENU button till the Setup menu is displayed.
- 2 Press the Volume Up "+" or Down "-" button to select "OSD LANGUAGE".
- 3 Press and hold the ENTER button till the SHIPPING menu is displayed.
- 4 Press the Volume Up "+" or Down "-" button to select "YES".
- 5 Press the ENTER button and wait for 10 sec.

Note:

Press the R button to return to SET UP menu when SHIPPING menu is displayed.

Troubleshooting

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

Symp	otoms	Checks
Picture	Sound	Cilecks
Interference	Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the remote control.)
? No Picture	No Sound	Not plugged into AC outlet Not switched on PICTURE and BRIGHTNESS/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
? No Picture	Normal Sound	If a signal with a non-applicable color system format, or frequency is input, only the input terminal indication is displayed.
No Color	Normal Sound	Color controls set at minimum level. (see page 23, 24) COLOR SYSTEM (see page 37)
No remote control operati	ons can be performed.	Check whether the batteries have discharged completely and, if they have not, whether they were inserted properly. Check whether the remote control sensor is exposed to an outdoor light or a strong fluorescent light. Check whether the remote control designed specifically for use with the unit is being used. (The unit cannot be operated by any other remote control.)
A cracking sound is sometimes heard from the unit.		If there is nothing wrong with the picture or sound, this is the sound of the cabinet undergoing very slight contractions in response to changes in the room temperature. There are no adverse effects on the performance or other aspects.
The top or bottom of the poff when I use the zoom for	oicture on the screen is cut unction.	Adjust the position of the picture on the screen.
	ttom of the screen where ear when I use the zoom	When using a video software program (such as a cinema size program) with a screen wider than one in the 16:9 mode, blank areas separate from the images are formed at the top and bottom of the screen.
I can hear sounds coming	from inside the unit.	When the power is turned on, a sound of the display panel being driven may be heard: This is normal and not indicative of malfunctioning.
This Plasma Display uses signal. However, this is no		Hence a slight time lag may occur between image and audio, depending on the type of input

Plasma Display panel

Symptoms	Check
The screen darkens slightly when bright pictures with minimal movements are shown.	The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen's service life: It is normal and not indicative of malfunctioning.
It takes a while for the picture to appear.	The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched or when the images for the main picture and sub picture on the two screens are swapped.
The edges of the images flicker.	Due to the characteristics of the system used to drive the panel, the edges may appear to flicker in the fast-moving parts of the images: This is normal and not indicative of malfunctioning.
The brightness on both sides of images in NORMAL mode changes.	When viewing the side panels at the "BRIGHT" or "MID" setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
Image retention appears	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 NORMAL mode. Note: The permanent image retention on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.
Whirring sounds can be heard from the display unit.	The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.

VIDEO/COMPONENT/RGB/PC input signals

VIDEO input (HDMI)

S	ignal format	Vertical frequency (Hz)	Horizontal frequency (kHz)	Dot clock (MHz)	Number of active pixels	Total number of pixels	Number of active lines	Total number of lines
1	VGA60	59.94	31.47	25.18	640	800	480	525
2	525/60p	59.94	31.47	27.00	720	858	480	525
3	625/50p	50.00	31.25	27.00	720	864	576	625
4	750/60p	60.00	45.00	74.25	1,280	1,650	720	750
5	750/50p	50.00	37.50	74.25	1,280	1,980	720	750
6	1,125/60i	60.00	33.75	74.25	1,920	2,200	1,080	1,125
7	1,125/50i	50.00	28.13	74.25	1,920	2,640	1,080	1,125

Audio signal Linear PCM: 48/44.1/32 kHz

Applicable input signals for Component / Mini D-sub 15P (Component) / RGB / Mini D-sub 15P (RGB) (* Mark)

	Signal name	Horizontal frequency	Vertical frequency	Dot clock frequency	Component / Mini D-sub 15P	RGB / Mini D-sub 15P
	Oignal Hame	(kHz)	(Hz)	(MHz)	(Component)	(RGB)
1	525 (480) / 60i	15.73	59.94	13.5	*	*
2	525 (480) / 60p	31.47	59.94	27.0	*	* *1
3	625 (575) / 50i	15.63	50.00	13.5	*	*
4	625 (575) / 50p	31.25	50.00	27.0	*	*
5	750 (720) / 60p	45.00	60.00	74.25	*	*
6	750 (720) / 50p	37.50	50.00	74.25	*	*
7	1,125 (1,080) / 60i	33.75	60.00	74.25	*	*
8	1,125 (1,080) / 50i	28.13	50.00	74.25	*	*
9	1,125 (1,080) / 24sF	27.00	47.92	74.25	*	*
10	1,125 (1,080) / 30p	33.75	30.00	74.25	*	*
11	1,125 (1,080) / 25p	28.13	25.00	74.25	*	*
12	1,125 (1,080) / 24p	27.00	24.00	74.25	*	*
13	1,250 (1,080) / 50i	31.25	50.00	74.25	*	*
14	640 × 400 @70 Hz	31.46	70.07	25.17		*
15	640 × 480 @60 Hz	31.47	59.94	25.18		* *2
16	640 × 480 @72 Hz	37.86	72.81	31.5		*
17	640 × 480 @75 Hz	37.50	75.00	31.5		*
18	640 × 480 @85 Hz	43.27	85.01	36.0		*
19	852 × 480 @60 Hz	31.47	59.94	33.54		* *2
20	800 × 600 @56 Hz	35.16	56.25	36.0		*
21	800 × 600 @60 Hz	37.88	60.32	40.0		*
22	800 × 600 @72 Hz	48.08	72.19	50.0		*
23	800 × 600 @75 Hz	46.88	75.00	49.5		*
24	800 × 600 @85 Hz	53.67	85.06	56.25		*
25	1,024 × 768 @60 Hz	48.36	60.00	65.0		*
26	1,024 × 768 @70 Hz	56.48	70.07	75.0		*
27	1,024 × 768 @75 Hz	60.02	75.03	78.75		*
28	1,024 × 768 @85 Hz	68.68	85.00	94.5		*
29	1,152 × 864 @75 Hz	67.50	75.00	108.0		*
30	1,280 × 960 @60 Hz	60.00	60.00	108.0		*
31	1,280 × 960 @85 Hz	85.94	85.00	148.5		*
32	1,280 x 1,024 @60 Hz	63.98	60.02	108.0		*
33	1,280 × 1,024 @75 Hz	79.98	75.03	135.0		*
34	1,280 × 1,024 @85 Hz	91.15	85.02	157.5		*
35	1,600 × 1,200 @60 Hz	75.00	60.00	162.0		*
36	1,600 × 1,200 @65 Hz	81.25	65.00	175.5		*
37	1,066 × 600 @60 Hz	37.64	59.94	53.0		*
38	1,366 × 768 @60 Hz	48.36	60.00	86.71		*
39	Macintosh13" (640 x 480)	35.00	66.67	30.24		*
40	Macintosh16" (832 x 624)	49.72	74.54	57.28		*
41	Macintosh21" (1,152 x 870)	68.68	75.06	100.0		*

^{*1:} When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60Hz signal. *2: When inputted VGA 60Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal. **Note:** Signals without above specification may not be displayed properly.

Command list of Weekly Command Timer

No.	Command	Control details
2	AAC:MENCLR AAC:MENDYN	Audio Menu (Clear)
3	AAC:MENDTN AAC:MENSTD	Audio Menu (Dynamic) Audio Menu (Standard)
4	AAC:SURMON	Surround (ON)
5	AAC:SUROFF	Surround (OFF)
6	AMT:0	Audio Mute (OFF)
7	AMT:1	Audio Mute (ON)
8	ASO:M	Audio out when PIP mode (Main Picture)
9	ASO:S	Audio out when PIP mode (Sub Picture)
10	AVL:00	Audio Volume (00)
11	AVL:10	Audio Volume (10)
12	AVL:20	Audio Volume (20)
13	AVL:30	Audio Volume (30)
14	AVL:40	Audio Volume (40)
15	AVL:50	Audio Volume (50)
16	AVL:60	Audio Volume (60)
17	DAM:FULL	Aspect (FULL)
18	DAM:JUST	Aspect (JUST)
19	DAM:NORM	Aspect (NORMAL)
20	DAM:SELF	Aspect (Panasonic Auto)
21	DAM:ZOOM	Aspect (ZOOM)
22 23	DWA:OFF DWA:OVL1	Dual Picture mode (OFF)
24	DWA:OVL1	Advanced PIP mode (1) (see page 22) Advanced PIP mode (2) (see page 22)
25	DWA:OVL2	Advanced PIP mode (3) (see page 22)
26	DWA:OVL4	Advanced FIP mode (4) (see page 22)
27	DWA:OVL4	Advanced PIP mode (5) (see page 22)
28	DWA:OVL6	Advanced PIP mode (6) (see page 22)
29	DWA:OVLOF	Advanced PIP mode (OFF) (normal two screen display mode)
30	DWA:OVLON	Advanced PIP mode (ON)
31	DWA:PIN0	The location of the sub picture (lower right)
32	DWA:PIN1	The location of the sub picture (lower left)
33	DWA:PIN2	The location of the sub picture (upper left)
34	DWA:PIN3	The location of the sub picture (upper right)
35	DWA:PIP	Dual Picture mode (Picture in Picture)
36	DWA:POP	Dual Picture mode (Picture out Picture)
37	DWA:SWP	Swap main picture and sub picture when PIP mode
38	DWA:TWN	Dual Picture mode (Picture and Picture)
39	IMS:PC1	Input select (PC1) (Main Picture when PIP mode)
40	IMS:SL1	Input select (SLOT1) (Main Picture when PIP mode)
41	IMS:SL1A	Input select (SLOT1A) (Main Picture when PIP mode)
42	IMS:SL1B	Input select (SLOT1B) (Main Picture when PIP mode)
43	IMS:SL2	Input select (SLOT2) (Main Picture when PIP mode) Input select (SLOT2A) (Main Picture when PIP mode)
44 45	IMS:SL2A IMS:SL2B	Input select (SLOT2A) (Main Picture when PIP mode) Input select (SLOT2B) (Main Picture when PIP mode)
46	IMS:SL3	Input select (SLOT3) (Main Picture when PIP mode)
47	ISS:PC1	Sub Picture Input Select (PC1)
48	ISS:SL1	Sub Picture Input Select (I C1)
49	ISS:SL1A	Sub Picture Input Select (SLOT1A)
50	ISS:SL1B	Sub Picture Input Select (SLOT1B)
51	ISS:SL2	Sub Picture Input Select (SLOT2)
52	ISS:SL2A	Sub Picture Input Select (SLOT2A)
53	ISS:SL2B	Sub Picture Input Select (SLOT2B)
54	ISS:SL3	Sub Picture Input Select (SLOT3)
55	OSP:SCR0	Screen Saver WHITE BAR SCROLL (OFF)
56	OSP:SCR1	Screen Saver WHITE BAR SCROLL (ON)
57	POF	Power OFF
58	PON	Power ON
59	SSC:FNC0	Screen Saver function (WHITE BAR SCROLL)
60	SSC:FNC1	Screen Saver function (NEGATIVE)
61	SSC:MOD0	ScreenSaver (Mode (OFF))
62	SSC:MOD3	ScreenSaver (Mode (ON))
63	VMT:0*	Picture Mute (OFF)
64	VMT:1*	Picture Mute (ON)

^{*} Picture Mute cannot be unlocked by powering off/on with the remote control. Turn off and on again with the button on the unit or enter the command VMT:0 to unlock Picture Mute.

Specifications

	TH-42PH10UKA			
Power Source	110 - 127 V AC, 50 / 60 Hz			
Power Consumption				
Power on	380 W			
Stand-by condition	Save OFF 0.7 W, Save ON 0.5 W			
Power off condition	0.2 W			
Plasma Display panel	Drive method : AC type 42-inch,			
	16:9 aspect ratio			
Screen size	36.3" (922 mm) (W) × 20.4" (518 mm) (H)			
	× 42" (1,057 mm) (diagonal)			
(No.of pixels)	786,432 (1,024 (W) × 768 (H))			
	[3,072 × 768 dots]			
Operating condition				
Temperature	32 °F - 104 °F (0 °C - 40 °C)			
Humidity	20 % - 80 %			
Applicable signals				
Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p, 1125 (1080) / 60i · 50i · 24p · 25p			
	· 30p · 24sF ···· SMPTE274M, 1250 (1080) / 50i			
PC signals	VGA, SVGA, XGA			
	SXGA, UXGA ···· (compressed)			
	Horizontal scanning frequency 15 - 110 kHz			
	Vertical scanning frequency 48 - 120 Hz			
Connection terminals				
HDMI A-B	TYPE A Connector × 2			
COMPONENT/RGB IN	Y/G (BNC) with/sync 1.0 Vp-p (75 Ω)			
	P _B /B (BNC), P _R /R (BNC) 0.7 Vp-p (75 Ω)			
	AUDIO IN (RCA PIN JACK × 2) 0.5 Vrms (high impedance)			
PC IN	(HIGH-DENSITY MINI D-SUB 15PIN) Y or G with/sync 1.0 Vp-p (75 Ω)			
	Y or G without/sync 0.7 Vp-p (75 Ω)			
	B/P _B /C _B : 0.7 Vp-p (75 Ω)			
	R/P _R /C _R : 0.7 Vp-p (75 Ω)			
	HD/VD: 1.0 - 5.0 Vp-p (high impedance)			
	AUDIO IN (M3 JACK) 0.5 Vrms (high impedance)			
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RS-232C COMPATIBLE			
SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)			
Accessories Supplied	FUDERSSEE			
Remote Control Transmitter				
Batteries	2 × AA Size			
Fixing bands	TMME203 × 2			
Dimensions (W × H × D)	40.2" (1,020 mm) × 24" (610 mm) × 3.5" (89 mm)			
Mass (weight)				
main unit only	approx. 57.3 lbs			
with speakers	approx. 66.1 lbs			

Note:

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

Specifications

		TH-50PH10UKA TH-58PH10UKA				
Power Source		110 - 127 V AC, 50/60 Hz				
Pov	wer Consumption					
	Power on	505 W		660 W		
	Stand-by condition	Save OFF 0.6 W, Save ON 0.4 V	٧	Save OFF 0.6 W, Save ON 0.4 W		
	Power off condition	0.1 W		0.1 W		
Pla	sma Display panel	Drive method : AC type 50-inch,		Drive method : AC type 58-inch,		
		16:9 aspect ratio		16:9 aspect ratio		
Screen size		43.5" (1,106 mm) (W) × 24.5" (622 mi	m) (H)	50.7" (1,287 mm) (W) × 28.5" (723 mm) (H)		
		× 50" (1,269 mm) (diagonal)		× 58" (1,476 mm) (diagonal)		
	(No.of pixels)	1,049,088 (1,366 (W) × 768 (H))	1,049,088 (1,366 (W) × 768 (H))		
		[4,098 x 768 dots]		[4,098 × 768 dots]		
Ор	erating condition					
	Temperature	32 °F	F - 104 °F	F (0 °C - 40 °C)		
	Humidity		20 %	- 80 %		
Ap	plicable signals					
	Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50 · 30p · 24sF ···· SMPTE274M, 1250 (108		(20) / 60p · 50p, 1125 (1080) / 60i · 50i · 24p · 25p		
	PC signals	VGA, SVGA, XGA				
		SXGA, UXGA ···· (compressed)				
		Horizontal scanning frequency 15 - 110 kHz				
		Vertical scanning frequency 48 - 120 Hz				
Connection terminals						
	HDMI A-B	T	YPE A Co	onnector × 2		
	COMPONENT/RGB IN	Y/G (BNC)	with/syn	ic 1.0 Vp-p (75 Ω)		
		PB/B (BNC), PR/R (BNC)	0.7 Vp-p	ο (75 Ω)		
		AUDIO IN (RCA PIN JACK × 2)	0.5 Vrm	s (high impedance)		
	PC IN	(HIGH-DENSITY MINI D-SUB 15PIN)	Y or G v	vith/sync 1.0 Vp-p (75 Ω)		
			Y or G v	vithout/sync 0.7 Vp-p (75 Ω)		
		В/Рв/Св:	0.7 Vp-p	ο (75 Ω)		
		R/Pr/Cr:	0.7 Vp-p	ο (75 Ω)		
		HD/VD:	1.0 - 5.0	Vp-p (high impedance)		
		AUDIO IN (M3 JACK)	0.5 Vrm	s (high impedance)		
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RS-232C COMPATIBLE				
	SPEAKERS (6 Ω)	16W	[8 W + 8	W] (10 % THD)		
Accessories Supplied						
	Remote Control Transmitter	EUR7636070R				
	Batteries	2 × AA Size				
	Fixing bands	TMME203 × 2				
	nensions (W \times H \times D)	47.6" (1,210 mm) × 28.5" (724 mm) × 3.7" (95 mm) 55.1" (1,399 mm) × 33.2" (843 mm) × 3.9" (9		55.1" (1,399 mm) × 33.2" (843 mm) × 3.9" (99 mm)		
Ма	ss (weight)					
	main unit only	approx. 79.4 lbs		approx. 119 lbs		
	with speakers	approx. 88.2 lbs		approx. 130.1 lbs		

Note:

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

(for the U.S.A and Puerto Rico)

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.

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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

(for Canada)

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

LIMITED WARRANTY STATEMENT

Panasonic Canada Inc. (also known as PCI) warrants this product to be free of defects in material and workmanship under normal use during the applicable warranty coverage period described below. PCI agrees to repair, or at its option, exchange, any part that becomes defective. However, the product must be purchased and serviced in Canada. The product or part that shows evidence of defect must be delivered prepaid or carried in to an authorized Panasonic Broadcast Service Center. This warranty does not cover shipping costs.

The warranty coverage period is one year for both parts and labour beginning with the date of original end user purchase, subject to the exceptions as stated below. Repaired or replacement parts supplied during the warranty coverage period carry the unexpired portion of the original warranty coverage period. Proof of product purchase is a condition of warranty service. The owner must produce the product purchase receipt or other satisfactory evidence of date of original purchase.

This warranty does not apply to external appearance items, such as handles, knobs, safety windows, etc. This warranty does not apply to any part, or parts, of the product, installed, altered, repaired or misused in any way that, in the opinion of PCI, affects the reliability of or detracts from the performance of the product.

For products requiring routine preventive maintenance, that maintenance <u>must be</u> <u>performed in order to maintain warranty coverage</u>.

Serial numbers that have been altered, defaced or removed void this warranty. This warranty does not cover replacements or repairs necessitated by loss or damage resulting from any cause beyond the control of PCI.

Marking or retained images (sometimes called "burn-in") resulting from the display of fixed images on video display products are not defects and are not covered under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY COVERAGE PERIOD EXCEPTIONS

Item	Parts	Labour
Video Tape	30 days—Replacement only (content not covered)	N/A
P2/SD Cards	(Content not covered)	N/A
Video Heads	1 year or 2,000 hrs. (prorated) Whichever comes first	1 year or 2,000 hrs. Whichever comes first
D5 Video heads	1 year or 1,000 hrs. Whichever comes first	1 year or 1,000 hrs. Whichever comes first
Maintenance Items	90 days	90 days
Colour Camera CCD Imaging Block	2 years	1 year
BT-H Series LCD Monitors	2 years	1 year
* DLP™ Projectors	3 years or 17,000 hrs. Whichever comes first	3 years or 17,000 hrs. Whichever comes first
* LCD Projectors above 2,500 ANSI Lumens	3 years or 2,500 hrs. Whichever comes first	3 years or 2,500 hrs. Whichever comes first.
* LCD Projectors below 2,500 ANSI Lumens	3 years or 1,500 hrs. Whichever comes first	3 years or 1,500 hrs. Whichever comes first
Projector Lamps	50% of the rated lamp life or 1 year. Whichever comes first	50% of the rated lamp life or 1 year. Whichever comes first.
103 inch Plasma displays	3 year (burn-in not covered)	3 year
Hard Drive Disk Unit	1 year plus balance (if any) of the original Manufacturer's Limited Warranty. (Content not covered)	1 year

 Dust, smoke, rental/staging environment and twenty-four/seven operation, dramatically decreases the interval between performances of routine preventive maintenance required to maintain this warranty coverage.

Warranty Service

If the product needs to be shipped for service, carefully pack (preferably in the original carton) and enclose a letter, detailing the complaint. Send prepaid and adequately insured to the local authorized Panasonic Service Centre in your area or to Panasonic Technical Support and Product Services Department, 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3. Shipping to the latter location requires a return authorization before shipment. No liability is assumed for loss or damage to the product while in transit.

Customer Service

Customer Service Directory

Obtain information products and operative assistant; localize the closer distributor or Service Center; buy spare parts and accessories by our web site to Latin American:

http://www.lar.panasonic.com

Also you may contact us directly by our Contact Center:

Panama 800-PANA (800-7262)

Colombia 1-8000-94PANA (1-8000-947262) - National Line

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Costa Rica 800-PANA737 (800-7262737)

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Guatemala 1-801-811-PANA (1-801-811-7262)

Chile 800-260602

From a cell phone: 245-2520

Venezuela 800-PANA-800 (800-7262-800)

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Mexico Service

To obtain information in the Republic of Mexico contact us at:

email: atencion.clientes@mx.panasonic.com

Or you may contact us in the next following phones numbers:

01800-VIP-PANA (01800-847-7262) - Interior

(55) 5000-1200 - Mexico D.F. and Metropolitan Area

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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 N	lumber	Serial Number

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Panasonic Professional Display Company

Unit of Panasonic Corporation of North America

Executive Office:

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