

Operating Instructions Manual de instrucciones High Definition Hospitality Plasma Display Pantalla de plasma de alta definición para la industria hotelera

> Model No. TH-37PR10UA Número de modelo. TH-42PR10UA



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.

En	g	lis	h	

Español

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.

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-37PR10UA, TH-42PR10UA

Responsible Party:Panasonic Corporation of North America
One Panasonic Way, Secaucus, NJ 07094Contact Source:Panasonic Broadcast & Television Systems Company
1-800-524-1448
email: pbtscservice@us.panasonic.com

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.

Safety Precautions

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

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

Pedestal	TY-ST09GR-K
Wall-hanging bracket (vertical)	TY-WK42PV3W
• Wall-hanging bracket (angled)	TY-WK42PR3U
•BNC Component Video Terminal Board	
•BNC Composite Video Terminal Board	TY-42TM6B
•BNC Dual Video Terminal Board	TY-FB9BD
Ir Through Terminal Board	TY-FB9RT
RCA Component Video Terminal Board	TY-42TM6Z
RCA Composite Video Terminal Board	TY-42TM6V
PC Input Terminal Board	TY-42TM6P
•RGB (Digital) Terminal Board	TY-42TM6D
HDMI Terminal Board	TY-FB8HM
Dual HDMI Terminal Board	
• AV Terminal Box	
• U/V Tuner Board with MATE I/F	TY-FB9TU
(Except for Canada and United States of America, only Mexico)	

Always be sure to ask a gualified 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.

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.

Transport only in upright position!

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

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.

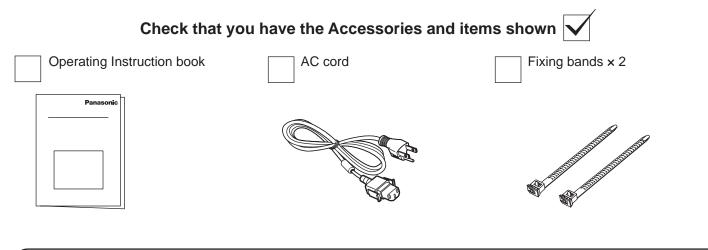
- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the 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

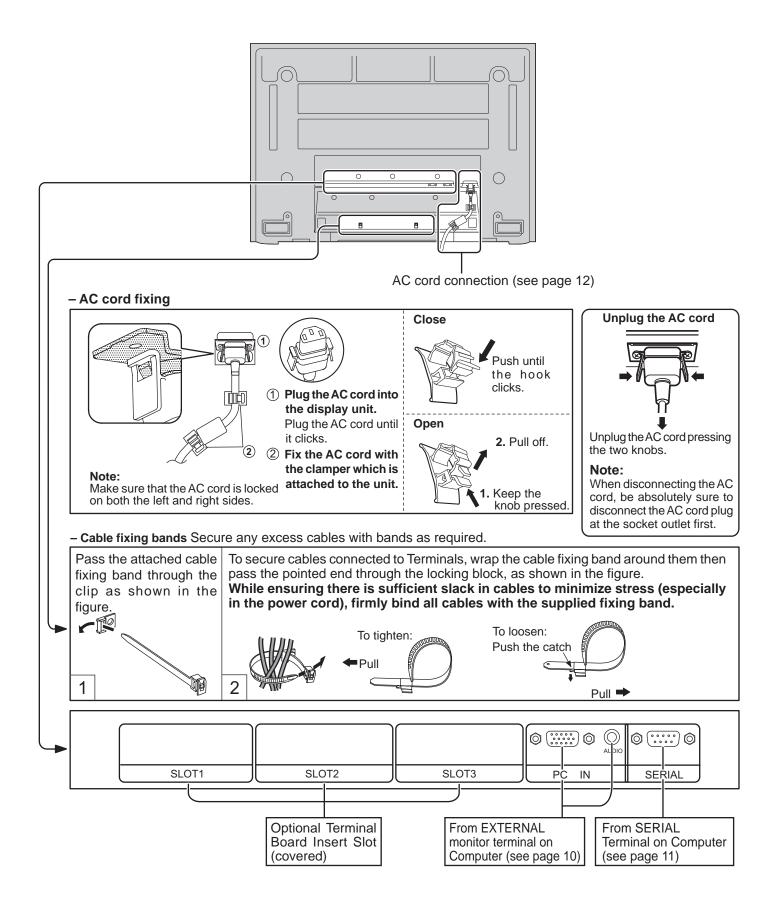
Accessories Supplied



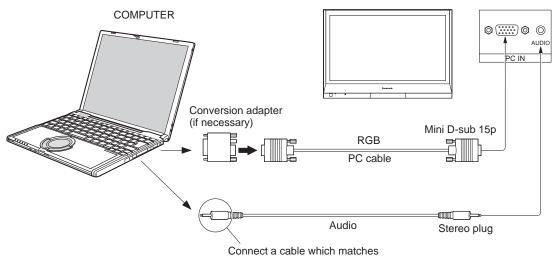
The remote control is not included with this set. Available for purchase separately.

Object model : EUR7636070R

Connections



PC Input Terminals connection



the audio output terminal on the computer.

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 × 720 dots (TH-37PR10UA), 768 × 768 dots (TH-42PR10UA) when the aspect mode is set to "NORMAL", and 1,024 × 720 dots (TH-37PR10UA), 1,024 × 768 dots (TH-42PR10UA) when the aspect mode is set to "FULL". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT"
- (when component connection) or "RGB" (when RGB signal connection). (see page 32)

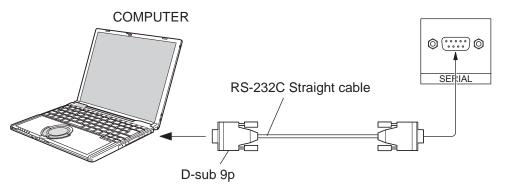
54321 10 9 8 7 0 (15) (14) (13) (12) (11)

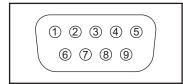
	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
$ \begin{pmatrix} 5 & 4 & 3 & 2 & 1 \\ 0 & 9 & 8 & 7 & 6 \\ 15 & 4 & 13 & 12 & 1 \end{pmatrix} $	1	$R (P_R/C_R)$	6	GND (Ground)	(1)	NC (not connected)
	2	G (Y)	\overline{O}	GND (Ground)	12	SDA
	3	B (P _B /C _B)	8	GND (Ground)	13	HD/SYNC
Pin Layout for PC Input	4	NC (not connected)	9	NC (not connected)	14	VD
Terminal	5	GND (Ground)	10	GND (Ground)	15	SCL

Signal Names for Mini D-sub 15P Connector

SERIAL Terminals connection

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





Pin layout for SERIAL Terminal

Notes:

- Use the RS-232C 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.

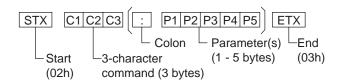
Communication parameters

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

RS-232C Conversion cable				
D-sub 9-pin female	Details			
2	RXD			
3	ТХD			
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

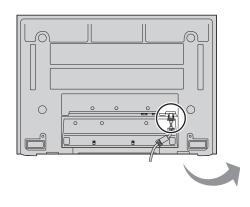
Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio MUTE OFF
	1	Audio MUTE ON
IMS	None SL1 SL2 SL3 PC1 SL1A SL1B SL2A SL2B	Input select (toggle) Slot1 input Slot2 input PC input Slot1 input (INPUT1A) Slot1 input (INPUT1B) Slot2 input (INPUT2A) Slot2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

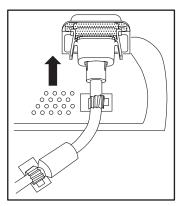
With the power off, this display responds to PON command only.

Power ON / OFF

Connecting the AC cord plug to the Plasma Display.

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





Connecting the plug to the Wall Outlet.

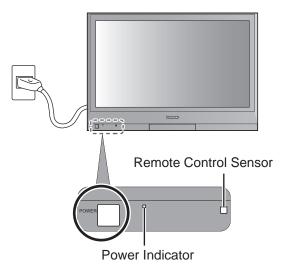
Notes:

- Main plug types vary between countries. The power plug shown at right may, therefore, not be the type fitted to your set.
- 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).





Press the $\stackrel{\text{OFF}}{\longrightarrow}$ button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)



Press the \bigcirc 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 POWER switch on the unit, when the Plasma Display is on or in standby mode.

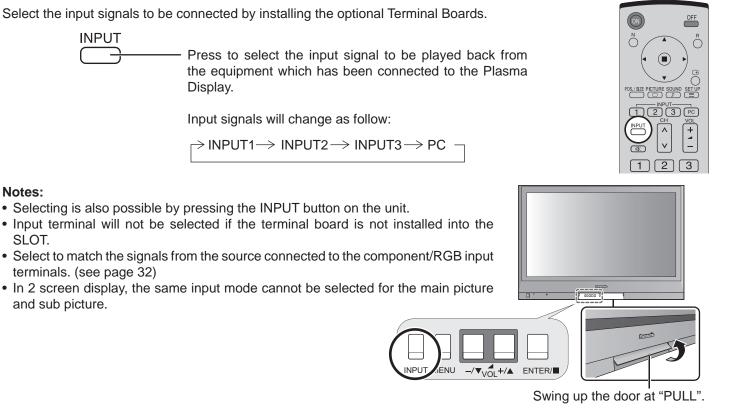
Note:

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

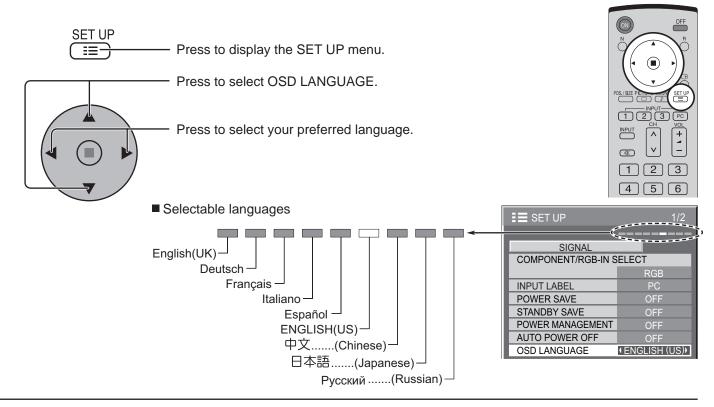


Initial selections

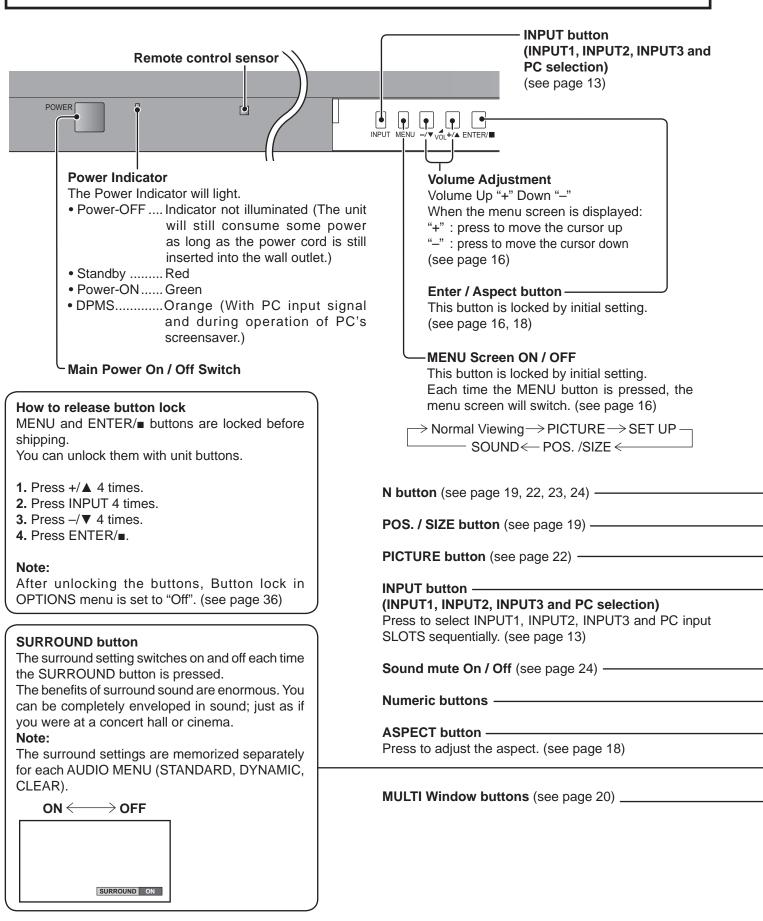
Selecting the input signal

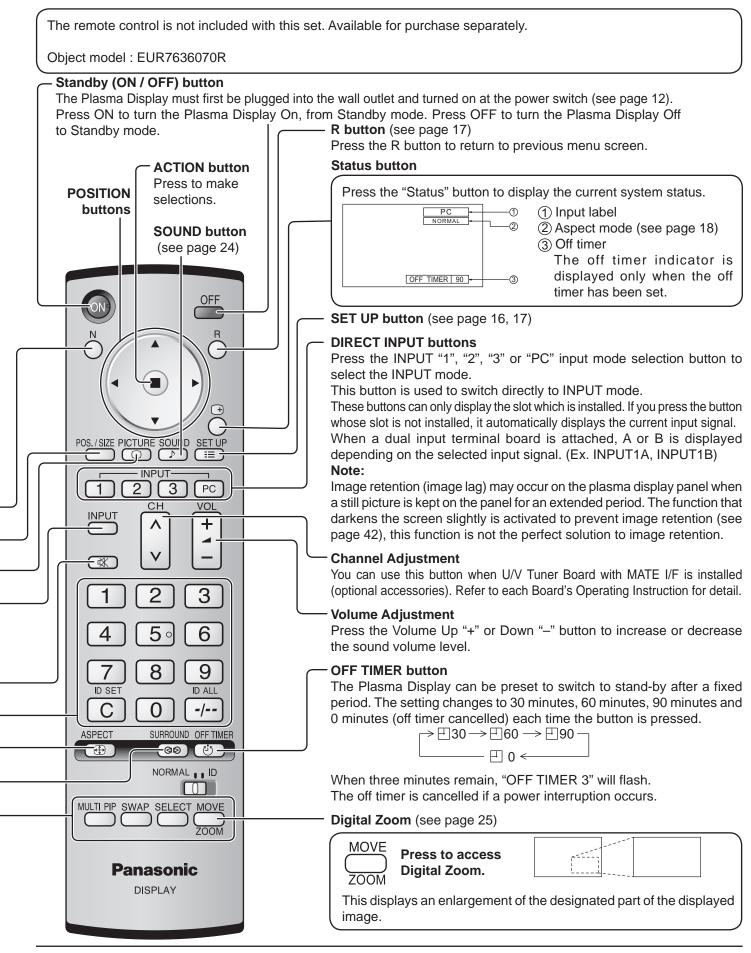


Selecting the On-Screen Menu Language

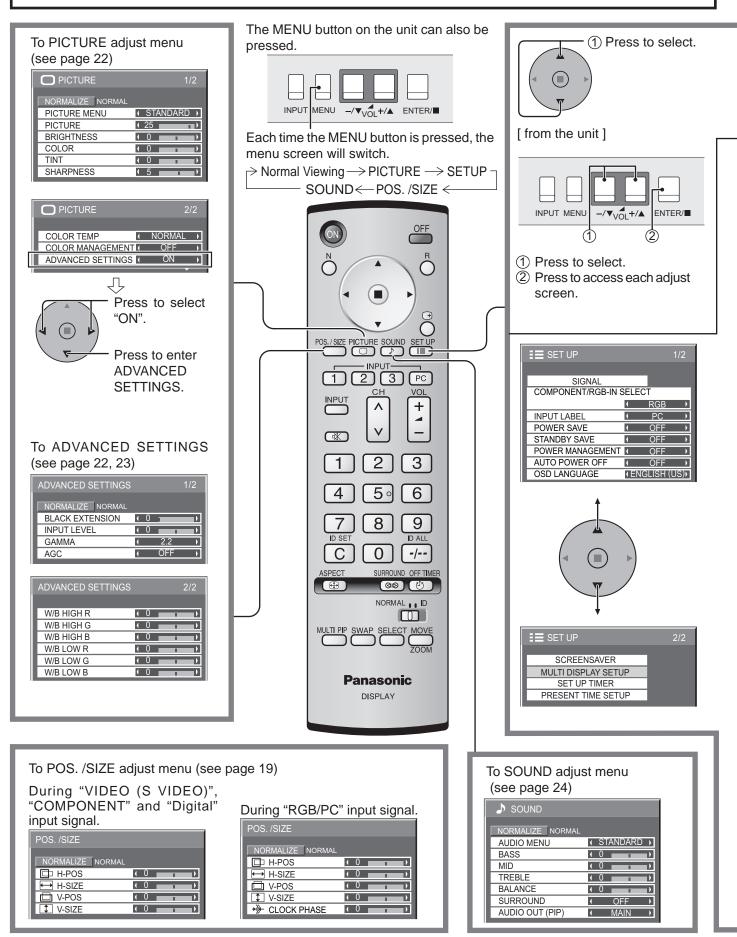


Basic Controls





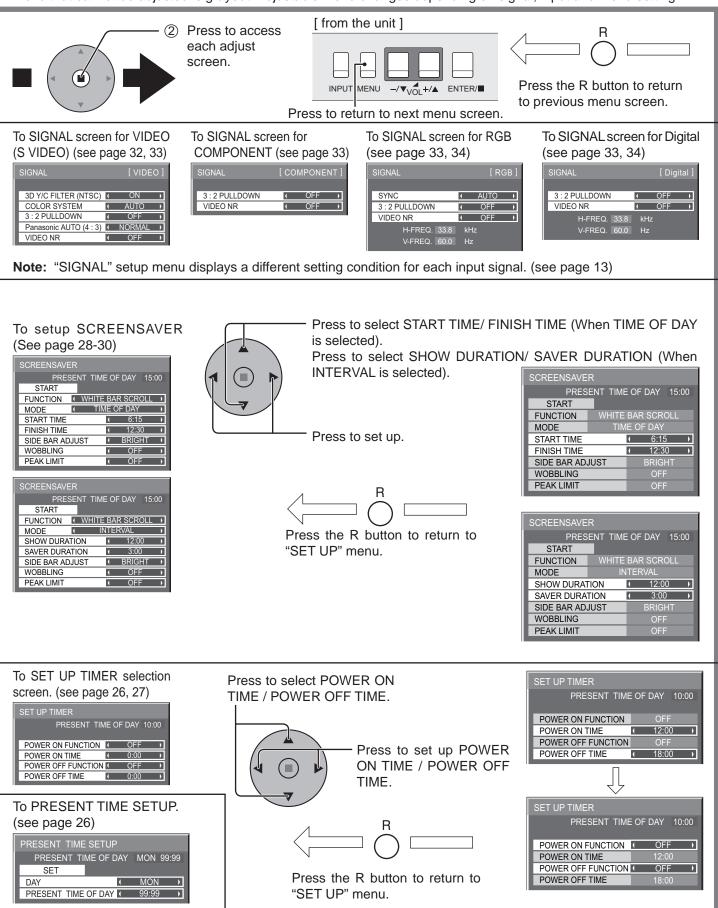
On-Screen Menu Displays



On-Screen Menu Displays

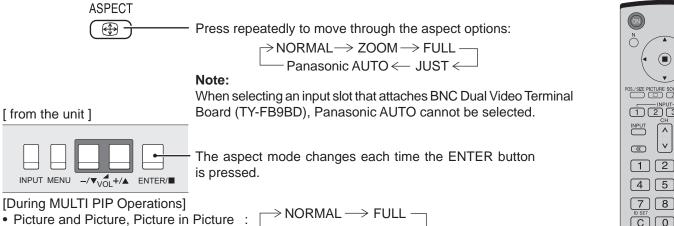
Note:

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



ASPECT Controls

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



• Others

- : Aspect switching is not possible.



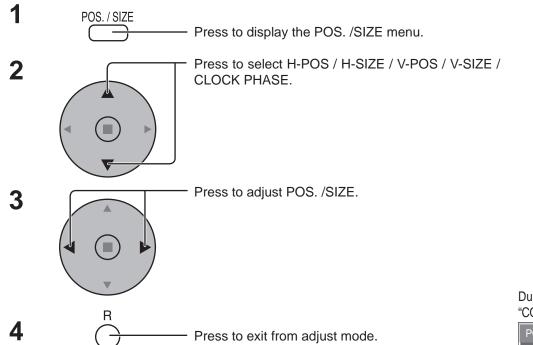
Notes:

- 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		NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with slight elongation.
JUST		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 For an elongated 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.

ote: 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



 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

 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

 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



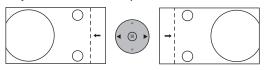
During "VIDEO (S VIDEO)", "COMPONENT" and "Digital" input signal.

POS. /SIZE	
NORMALIZE NORMA	۸L
🗇 H-POS	(0
↔ H-SIZE	(0
🗇 V-POS	(0
V-SIZE	(0

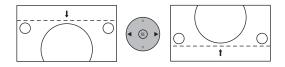
During "RGB / PC" input signal.

POS. /SIZE	
NORMALIZE NORMAL	
🗇 H-POS	(0
H-SIZE	(0
🗖 V-POS	(0
V-SIZE	(0
+ CLOCK PHASE	(0

H-POS Adjust the horizontal position.



V-POS Adjust the vertical position.



CLOCK PHASE (RGB/PC in mode)

Notes:

frequency.)

POS. /SIZE function.

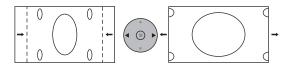
to a former adjustment.

Eliminate the flickering and distortion.

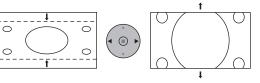
Helpful Hint ($\stackrel{\mathbb{N}}{\bigcirc}$ / NORMALIZE Normalization)

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.

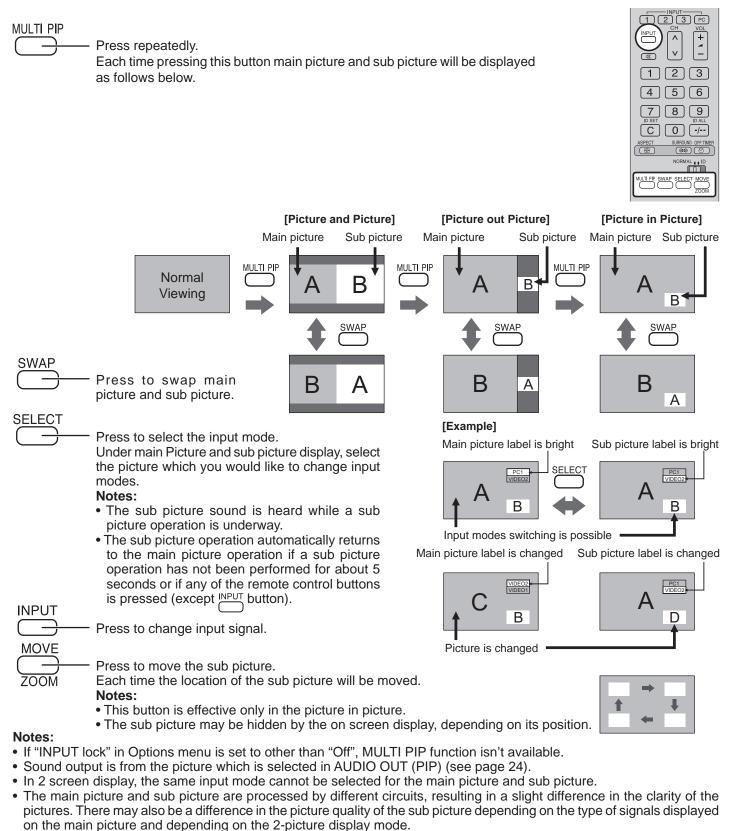
H-SIZE Adjust the horizontal size.



V-SIZE Adjust the vertical size.

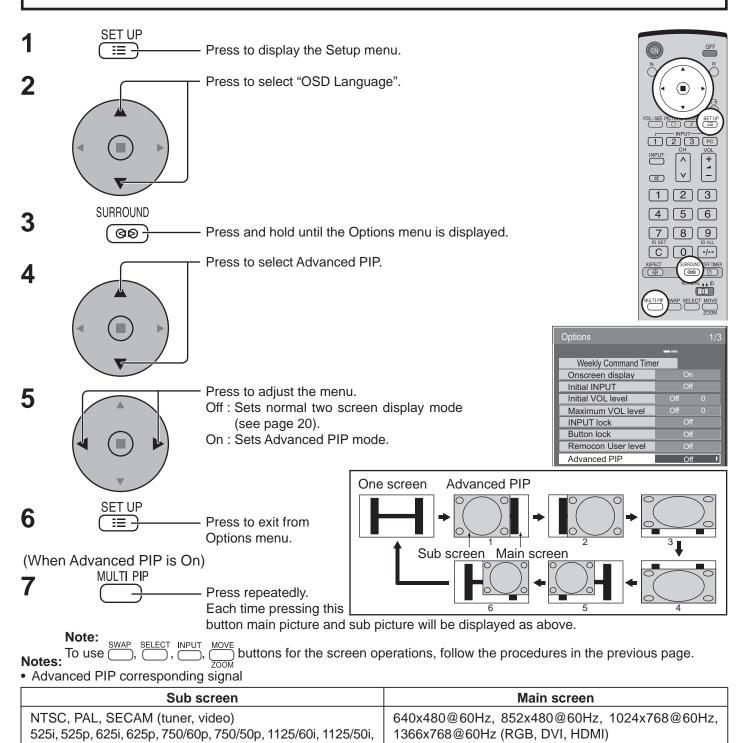


MULTI PIP



- 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



1250/50i (Component Video, RGB, DVI, SDI, 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 24).
- 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.

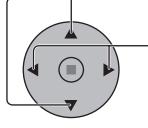
PICTURE Adjustments



- Press to display the PICTURE menu.

2 Select to adjust each item.

Press to select the menu to adjust.

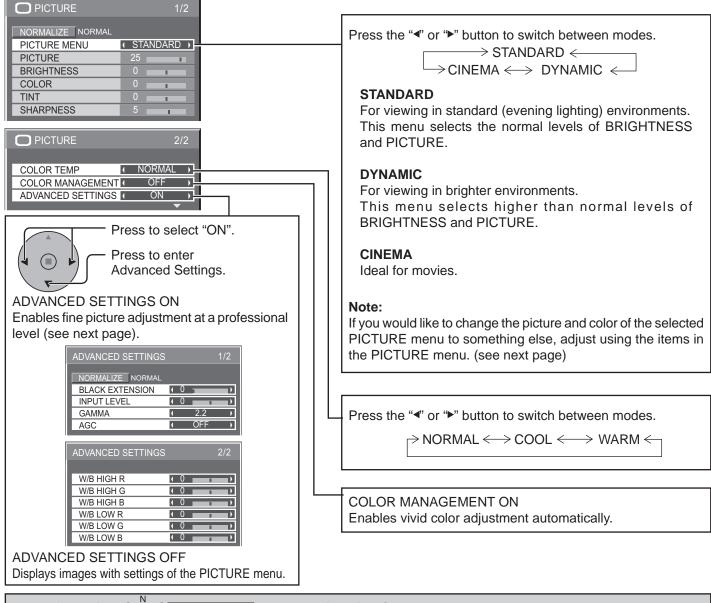


Select the desired level by looking at the picture behind the menu.

Note:



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



Helpful Hint ($\bigcirc^{\mathbb{N}}$ / 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.

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

ltem	Eff	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	$S CURVE \longleftrightarrow 2.0 \iff 2.2 \iff 2.5$
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.
 - Adjust the white balance of the dark sections using the "W/B LOW R", "W/B LOW G" and "W/B LOW B" settings.
 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 (\bigcirc / NORMALIZE Normalization)

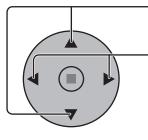
On the remote control unit, while the "ADVANCED SETTINGS" menu is displayed, if either the N button is pressed at any time or the ACTION (**■**) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

SOUND Adjustment



- Press to display the SOUND menu.

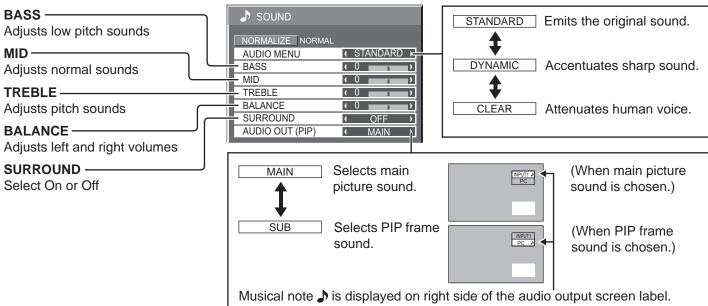
2 Select to adjust each item.



Press to select the menu to adjust.

Select the desired level by listening to the sound.





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 ($\bigcirc^{\mathbb{N}}$ / 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.

 \mathbb{A}

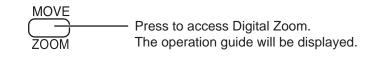
Press this button to mute the sound.

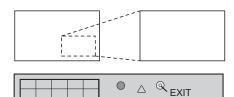
Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

Digital Zoom

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

Display the operation guide.

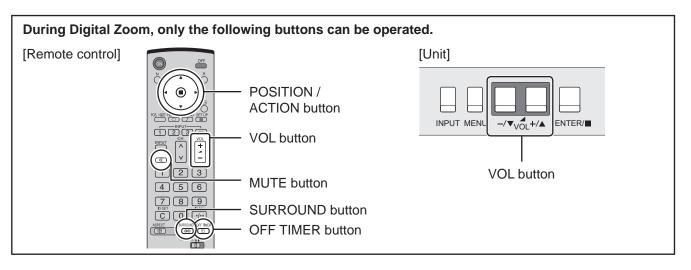




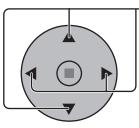
 $\triangleleft \Box \triangleright$

 ∇

× 1



Select the area of the image to be enlarged.



Press on the enlargement location to select.

The	cui	SO	r wi	ll m	IOV	e.
						••••
						ŧ

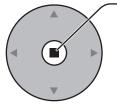
|--|

3

2

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.



 $\rightarrow \boxed{\times 1} \rightarrow \boxed{\times 2} \rightarrow \boxed{\times 3} \rightarrow \boxed{\times 4}$

4 F

Return to normal display (quit Digital Zoom).



Press to exit from the Digital Zoom.

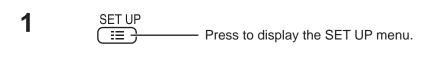
Notes:

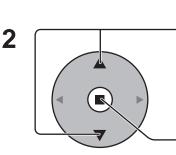
- When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state:
- "Multi-viewer" (Picture in Picture, Picture out Picture, Picture and Picture) operation. (see page 20)
- While Digital Zoom is in operation, "Adjusting POS. /SIZE" cannot be used.

PRESENT TIME SETUP / SET UP TIMER

The timer can switch the Plasma Display ON or OFF.

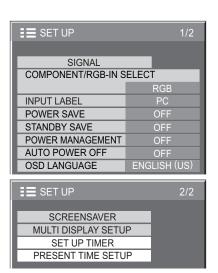
Before attempting Timer Set, confirm the PRESENT TIME OF DAY and adjust if necessary. Then set POWER ON TIME / POWER OFF TIME.





Press to select SET UP TIMER or PRESENT TIME SETUP.

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



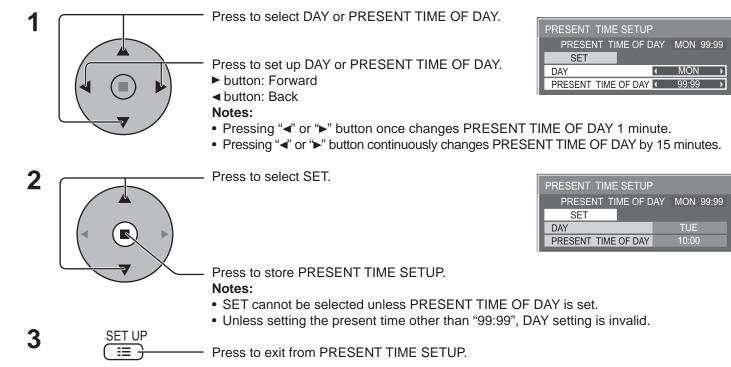
<u>^</u> [+

SETL

PRESENT TIME SETUP

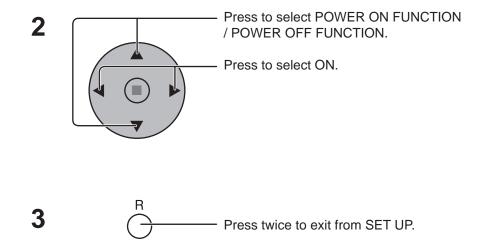
Display the PRESENT TIME SETUP screen.

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



SET UP TIMER

Display the SET UP TIMER SCREEN.



 PRESENT TIME OF DAY
 10:00

 POWER ON FUNCTION
 ON

 POWER OFF FUNCTION
 ON

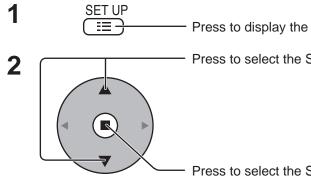
 POWER OFF TIME
 18:00

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.

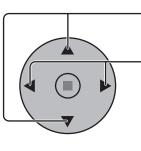


- Press to display the SET UP menu.

Press to select the SCREENSAVER.

Press to select the SCREENSAVER screen.

NEGATIVE / SCROLL selection 3



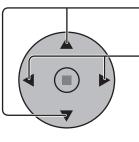
Press to select the FUNCTION.

Press to select the desired function.

WHITE BAR SCROLL \longleftrightarrow NEGATIVE

WHITE BAR SCROLL : A white bar will scroll from left to right. NEGATIVE : A negative image will be displayed on the screen.

Δ



Press to select the MODE.

Press to select each mode items.



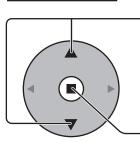
INTERVAL TIME OF DAY t ON

: 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 (
) button is pressed.

START setting 5

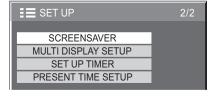


When the MODE is set to ON, press to select START.

SCREENSAVER			
PRESENT TIME OF DAY 99:99			
START			
FUNCTION	WHITE	BAR SCRO	DLL
MODE	•	ON	Þ
START TIME	6:15		
FINISH TIME	12:30	C	
SIDE BAR AD	BRIGH	HT	
WOBBLING		OFF	
PEAK LIMIT	OFF		

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

PRESENT TIME OF DAY 99:99

OFF

BRIGHT

Þ

♦ WHITE BAR SCROLL →

SCREENSAVER

START

SIDE BAR ADJUST WOBBLING PEAK LIMIT

SCREENSAVER

START FUNCTION

START TIME **FINISH TIME**

WOBBLING PEAK LIMIT

SIDE BAR ADJUST

4

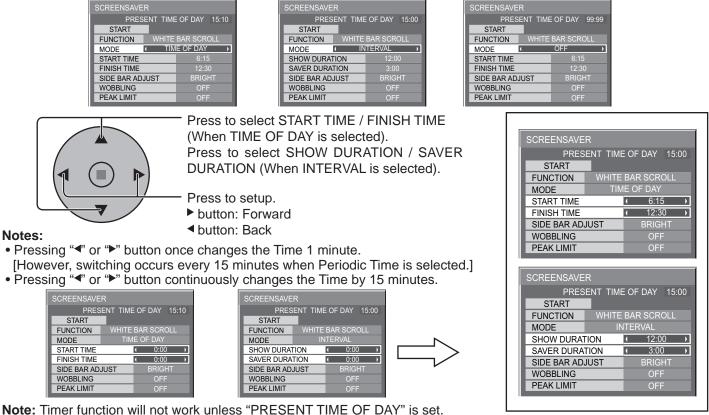
MODE

FUNCTION

MODE START TIME **FINISH TIME**

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".)



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.

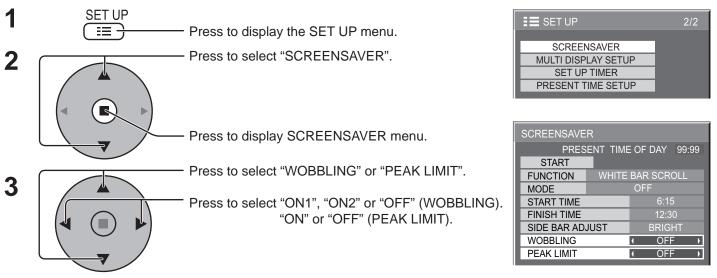
WOBBLING: Automatically shifts the display image (therefore unnoticeable to the eye) to prevent image retention of sharper contour of image.

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).

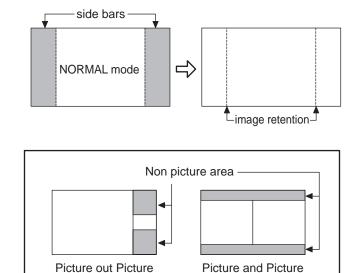
Note: When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 42)



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.

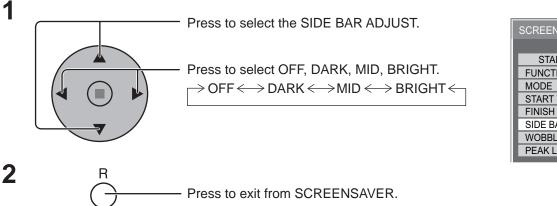
To reduce the risk of such an image retention, change the brightness of the side bars.



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)



SCREENSAVER PRESENT TIME OF DAY 99:99 START FUNCTION WHITE BAR SCROLL MODE OFF START TIME 6:15 FINISH TIME 12:30 SIDE BAR ADJUST BRIGHT V WOBBLING OFF PEAK LIMIT OFF

Notes:

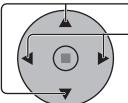
- To reduce the occurrence of image retention, set the SIDE BAR ADJUST to BRIGHT.
- The side bar may flash (alternate black/white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

Reduces power consumption

• POWER SAVE:	When this function is turned (power consumption is reduce	ON, luminous level of the Plasma Display is suppressed, so
• STANDBY SAVE:		N, power consumption of the microcomputer is reduced during age 12, 14-15), so standby power of the set is reduced.
• POWER MANAGEMENT:	during PC input mode.	ed ON or OFF depending on whether or not there is a signal en it is turned ON. (Only during input from PC (Mini D-sub)
• AUTO POWER OFF:	When this is set to On, the p signals stop.	urned OFF when there is no signal. bower supply of the unit goes Off 10 minutes after the input nput signals except input from PC (Mini D-sub) terminal.
2	 Press to select "POWER SAVE" "STANDBY SAVE" "POWER MANAGEMENT" "AUTO POWER OFF". Press to select "ON" or "OFF ON ← → OFF 	SIGNAL COMPONENT/RGB-IN SELECT RGB INPUT LABEL PC POWER SAVE OFF STANDBY SAVE OFF POWER MANAGEMENT OFF AUTO POWER OFF OFF OSD LANGUAGE ENGLISH (US)
3 SET UP	 Press to exit from SET UP. 	Note: "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 13, 15)



- Press to select INPUT LABEL.

Press to change the INPUT LABEL.

E SET UP	1/2
SIGNAL	
COMPONENT/RGB-IN S	ELECT
	RGB
INPUT LABEL	• PC •
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

Note:

While selecting an Input signal through Optional Terminal Board connected to Slot1, Slot2 and Slot3, the Input label will depend on each Optional Terminal Board.

INPUT LABELS for Slot1, Slot2, Slot3 and Mini D-sub:

[Slot1 Input]INPUT1/VIDEO1/COMPONENT1/RGB1/DIGITAL1/PC1/DVD1/CATV1/VCR1/STB1[Slot2 Input]INPUT2/VIDEO2/COMPONENT2/RGB2/DIGITAL2/PC2/DVD2/CATV2/VCR2/STB2[Slot3 Input]INPUT3/VIDEO3/COMPONENT3/RGB3/PC3/DVD3/CATV3/VCR3/STB3[PC (Mini D-sub) input]PC/COMPONENT/RGB/DVD/STB

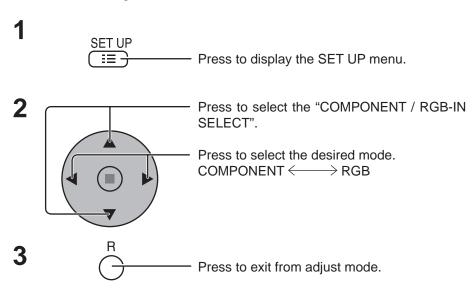
When BNC Dual Video Terminal Board (TY-FB9BD) is used, an "A" or "B" is added at the end of each input label, depending on the input selected (see below).

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

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 => "RGB"





OFF NORMAL

OFF

Panasonic AUTO (4 : 3)

VIDEO NR

•

SET UP	1/2
SIGNAL	
COMPONENT/RGB-IN S	SELECT
	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

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.)

1		Press to select the "3D Y/C FILTER (NTSC)".	E SET UP	1/2
•		Press to set ON / OFF.	SIGNAL COMPONENT/RGB-IN S	SELECT RGB
			INPUT LABEL POWER SAVE STANDBY SAVE	PC OFF OFF
	7		POWER MANAGEMENT AUTO POWER OFF OSD LANGUAGE	OFF OFF ENGLISH (US)
2	R			
	Ģ	 Press to exit from adjust mode. 	SIGNAL 3D Y/C FILTER (NTSC) COLOR SYSTEM	[VIDEO]
			3 : 2 PULLDOWN	OFF

Note:

When ON, this setting only affects NTSC input signals.

SET UP

INPUT LABEL

POWER SAVE STANDBY SAVE

POWER MANAGEMENT

SIGNAL COMPONENT/RGB-IN SELECT

COLOR SYSTEM / Panasonic AUTO

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

If the image becomes unstable:

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

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.

OFF ENGLISH (US AUTO POWER OFF **OSD LANGUAGE** Press ACTION (
) button

OFF

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

SIGNAL COMPONENT/RGB-IN SELECT

INPUT LABEL

POWER SAVE STANDBY SAVE POWER MANAGEMENT

AUTO POWER OFF OSD LANGUAGE

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.	
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. E SET UP

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

Note:

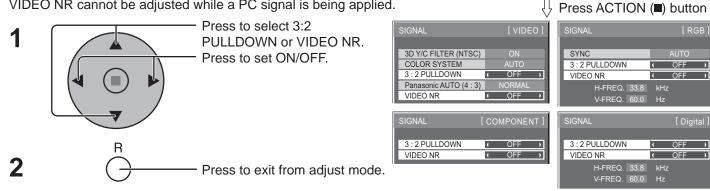
When ON, this setting only affects the following signal input:

- 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.

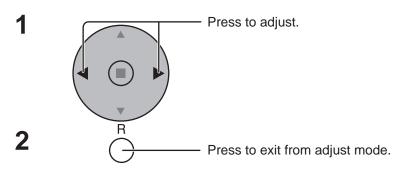
Note:

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



SYNC

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



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.

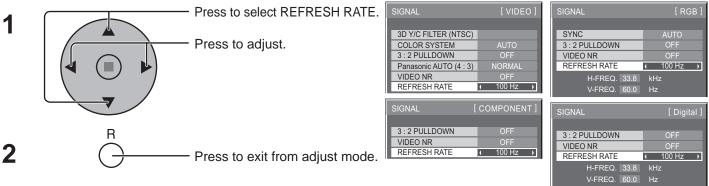
This menu is displayed when the input signal is 50 Hz system (50i, 50p, 25p, 24p, 24sF) of vertical scan rate.

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.

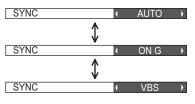
Display range:

Horizontal 15 - 110 kHz Vertical 48 - 120 Hz

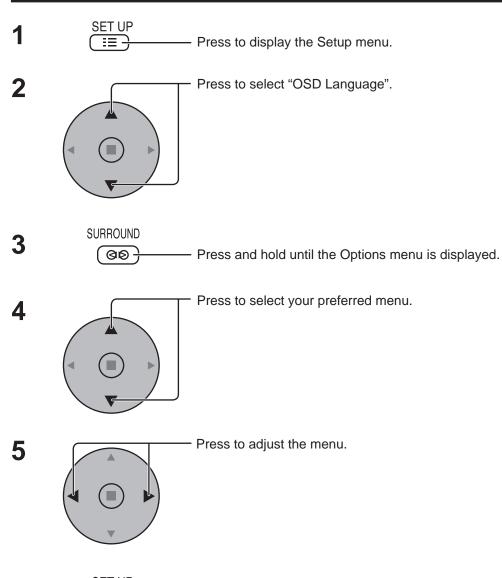
SET UP	1/2
SIGNAL	
COMPONENT/RGB-IN S	ELECT
	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

Press ACTION (■) button

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



Options Adjustments





Options			1/3
Weekly Command Time	ər		
Onscreen display		On	•
Initial INPUT	•	Off	•
Initial VOL level	Of	f	
Maximum VOL level	Of	f	
INPUT lock		Off	
Button lock		Off	
Remocon User level		Off	
Advanced PIP		Off	

6 SET UP E Press to exit from Options menu.

Item	Effect	Adjustments
Weekly Command Timer		Sets Weekly Command Timer. (see page 39)
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 ³/_O 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 13) 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)

Options				1/3
Weekly Command Tim	er			
Onscreen display		Or		
Initial INPUT		Of	f	
Initial VOL level		Off	0)
Maximum VOL level		Off	0)
INPUT lock	•	Of	f	
Button lock	•	Of	f	
Remocon User level	•	Of	f)
Advanced PIP		Of	f)

Item	Effect	Adjustments
Initial VOL level	Off C	Press button to adjust the volume when the unit is turned on. Off \leftarrow On Off: Sets normal volume.
Maximum VOL level	Off C	 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 13) 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 lenter 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 → P
Remocon User level	••	 Off ← User1 ← User2 ← User3 Off: You can use all of the buttons on the remote control. User1:You can only use ((a)), (), (), (), (), (), (), (), (), (),
Advanced PIP	Off C	 Off: Sets normal two screen display mode (see page 20). On: Sets Advanced PIP mode (see page 21). Notes: When "INPUT lock" is "On", you cannot use all the two screen display functions. ASPECT MOVE buttons are unavailable during Advanced PIP mode operation.

Options Adjustments

Options			2/3
Off-timer function		Enable	
Initial Power Mode	(Normal	•
ID select	•	0	
Remote ID		Off	
Serial ID		Off	
Display size		Off	•
Studio W/B		Off	•
Studio Gain		Off	•

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	• •	Normal ← > 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) On: 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, 1125/24sF, 1125/25p, 1125/24p, 1125/30 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 		

Options			3/3
Slot power	4	Off	}
V. Installation		Off	
Rotate		Off	
Serial Slot Select	4	Slot1	Þ

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 O	Note: This mode is unavailable.		
Rotate	Off O	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

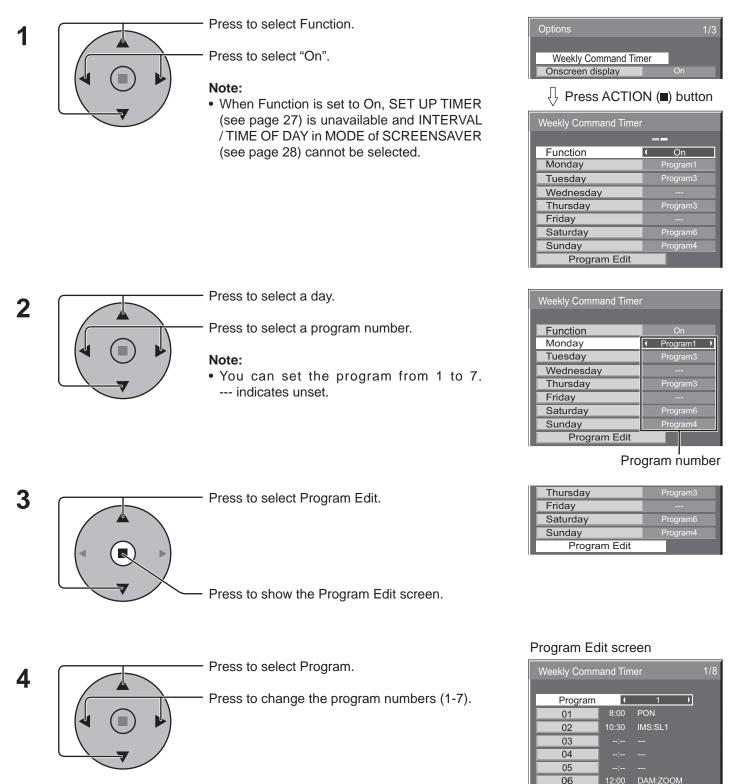
ID" adjustments, set all the values "Off" so that all the buttons are enabled again. Press the $\frac{1}{\sqrt{r_{vol}}}$ button on main unit together with \bigcirc button on the remote control and hold for more than 5 seconds. The "SHIPPING" menu is displayed and the lock is released when it disappears.

Weekly Command Timer

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

Note:

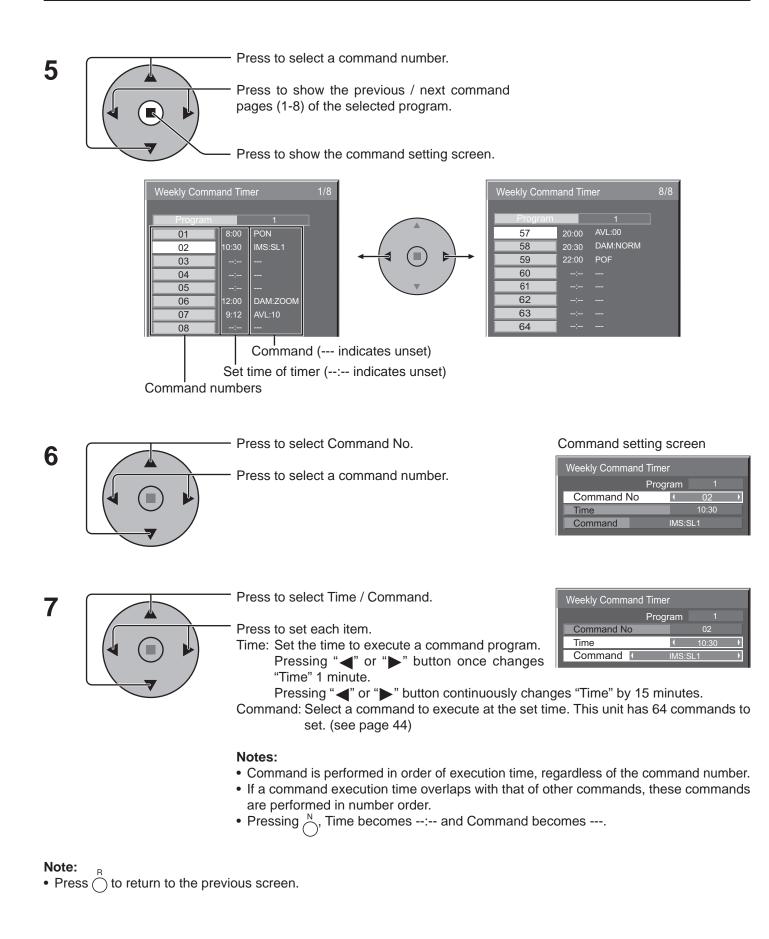
Before setting Weekly Command Timer, set PRESENT TIME SETUP. (see page 26)



AVL:10

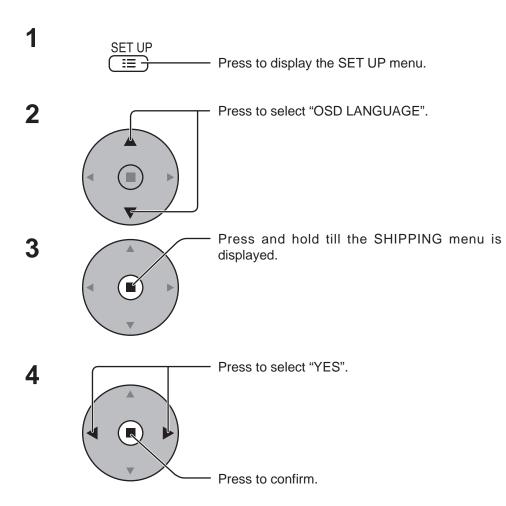
07

08



Shipping condition

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





E SET UP	1/2
SIGNAL	
COMPONENT/RGB-IN S	ELECT
	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

SHIPPING (YES)

[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.

Symptoms		Chaolia	
Picture	Sound	Checks	
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 22, 23) COLOR SYSTEM (see page 33)	
No remote control operations 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 picture on the screen is cut off when I use the zoom function.		Adjust the position of the picture on the screen.	
Areas at the top and bottom of the screen where the image is missing appear when I use the zoom function.		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	Checks	
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 powe 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.	
Example 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.	

PC input signals

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

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Dot clock frequency (MHz)	Mini D-sub 15P (Component)	Mini D-sub 15P (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 × 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 × 480)	35.00	66.67	30.24		*
40	Macintosh16" (832 × 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 60 Hz signal. *2: When inputted VGA 60 Hz 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 dataila
No. 1	Command AAC:MENCLR	Control details Audio Menu (Clear)
2	AAC:MENCLR AAC:MENDYN	Audio Menu (Clear) Audio Menu (Dynamic)
3	AAC:MENDTN AAC:MENSTD	Audio Menu (Dynamic) Audio Menu (Standard)
4	AAC:SURMON	Surround (ON)
5	AAC:SUROFF	Surround (OFF)
	AMT:0	Audio Mute (OFF)
6	AMT:1	Audio Mute (OFF)
7	ANO:M	
8		Audio out when PIP mode (Main Picture)
9	ASO:S	Audio out when PIP mode (Sub Picture) Audio Volume (00)
10	AVL:00	Audio Volume (00) Audio Volume (10)
11	AVL:10	
12	AVL:20 AVL:30	Audio Volume (20)
13		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	DWA:OFF	Dual Picture mode (OFF)
23	DWA:OVL1	Advanced PIP mode (1) (see page 21)
24	DWA:OVL2	Advanced PIP mode (2) (see page 21)
25	DWA:OVL3	Advanced PIP mode (3) (see page 21)
26	DWA:OVL4	Advanced PIP mode (4) (see page 21)
27	DWA:OVL5	Advanced PIP mode (5) (see page 21)
28	DWA:OVL6	Advanced PIP mode (6) (see page 21)
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)
44	IMS:SL2A	Input select (SLOT2A) (Main Picture when PIP mode)
45	IMS:SL2B	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 (SLOT1)
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-37PR10UA	TH-42PR10UA		
Power Source		110 - 127 V AC, 50 / 60 Hz			
Ро	wer Consumption				
	Power on	340 W	380 W		
	Stand-by condition	Save OFF 0.7 W, Save ON 0.5 W	Save OFF 0.7 W, Save ON 0.5 W		
	Power off condition	0.2 W	0.2 W		
Pla	sma Display panel	Drive method : AC type 37-inch,	Drive method : AC type 42-inch,		
		16:9 aspect ratio	16:9 aspect ratio		
Sc	reen size	32.2" (819 mm) (W) × 18.0" (457 mm) (H)	36.3" (922 mm) (W) × 20.4" (518 mm) (H)		
		× 37" (938 mm) (diagonal)	× 42" (1,057 mm) (diagonal)		
	(No.of pixels)	737,280 (1,024 (W) × 720 (H))	786,432 (1,024 (W) × 768 (H))		
		[3,072 × 720 dots]	[3,072 × 768 dots]		
Ор	erating condition				
	Temperature	32 °F - 104 °	F (0 °C - 40 °C)		
	Humidity	20 %	- 80 %		
Ар	plicable 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	VGA, SVGA, XGA		
		XGA, SXGA, UXGA ···· (compressed)	SXGA, UXGA ···· (compressed)		
		Horizontal scanning frequency 15 - 110 kHz	Horizontal scanning frequency 15 - 110 kHz		
		Vertical scanning frequency 48 - 120 Hz	Vertical scanning frequency 48 - 120 Hz		
Со	nnection terminals				
	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)		
		В/Рв/Св: 0.7 Vр-	ρ (75 Ω)		
		R/Pr/Cr: 0.7 Vp-	ρ (75 Ω)		
		HD/VD: 1.0 - 5.	0 Vp-p (high impedance)		
		AUDIO IN (M3 JACK) 0.5 Vrm	ns (high impedance)		
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PI	N) RS-232C COMPATIBLE		
Ac	cessories Supplied				
Fixing bands			E203 × 2		
Dimensions (W × H × D)		36.1" (917 mm) × 25.4" (644 mm) × 3.7" (95 mm)	40.2" (1,020 mm) × 27.8" (705 mm) × 3.7" (95 mm)		
		(4.3" (109 mm) when including protruding portion of slots)	(4.3" (109 mm) when including protruding portion of slots)		
Ма	ss (weight)	approx. 55.1 lbs	approx. 61.7 lbs		
So	und				
	Speaker	4.8" (120 mm) × 2.4	' (60 mm) × 2 pcs, 8 Ω		
	Audio Output	20 W [10 W + 1	0 W] (10 % THD)		

Note:

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

(for the U.S.A.)

Panasonic Broadcast & Television Systems Company, Unit of Panasonic Corporation of North America One Panasonic Way 2A-4 Secaucus, NJ 07094

Panasonic Broadcast & Television Systems Company or Panasonic Puerto Rico, Inc (collectively 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, from the original date purchase in the event of a defect in materials or workmanship as follow:

Warranty	Part Warranty	Labor Warranty		
All Monitors, VCRs, Cameras, Camcorders, P2 Product, DVDs, Plasma Displays, switchers and Plug-in Computers.	1 Year	1 Year		
Exceptions				
D3 & D5 Video Heads	90 days or 500 Hours	90 days or 500 Hours		
Camera CCD	2 Years	1 Year		
Monitor CRT	2 Years	1 Year		
All Accessories Including batteries, cables, and tapes.	10 Days	None		

Carry-in or mail-in service in the **USA** may be obtained during the warranty period by contacting a Panasonic Broadcast & Television Systems Company Authorized Service Center either by using the website

http://www.panasonic.com/support/

or by calling toll free <u>1-800-526-6610</u> to locate the nearest authorized Service Center.

Carry-in or mail-in service in **Puerto Rico** can be obtained during the warranty period by calling <u>787-750-5135</u>

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. Panasonic Puerto Rico, Inc Ave. 65de Infanteria, Km.9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

Limited Warranty

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 shipping or failures which are caused by products not supplied by the warrantor, or failures which result from faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of user controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

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

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may nor apply to you. This warranty gives you specific legal rights and you may also have 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 U	SA
FOR THE NEAREST SERVICE CENTER	FOR TECHNICAL SUPPORT
CALL 1-800-526-6610	CALL 1-800-524-1448
OR	OR
Website: http://www.panasonic.com/support/	Email: pbtscservice@us.panasonic.com

REGISTER YOUR PRODUCT WWW.PANASONIC.COM/REGISTER

In Puerto Rico For service call 787-750-5135

(for Canada)

م کرچ Pa	anasonic Cana	da Inc.		*2
Broadcast	& Television Sy	ystems Divisio	n	
5770 Ambler Dr	rive, Mississaug	ja, Ontario L4W	2T3	
LIMITED W	ARRANT	STATEM	ENT	
Panasonic Canada Inc. (also known as PCI) warrants this product to be free	e of W	WARRANTY COVERAGE PERIOD EXCEPTIONS		
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		m	Parts	Labour
	, VIC	leo Tape	30 days—Replacement only (content not covered)	N/A
	roadcast P2	Cards	(Content not covered)	N/A
		leo Heads	1 year or 2,000 hrs. (prorated) Whichever comes first	1 year or 2,000 hrs. Whichever comes first
The warranty coverage period is one year to both parts and adout 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.	elow. D5	Video heads	1 year or 500 hrs. Whichever comes first	1 year or 500 hrs. Whichever comes first
		intenance Items	90 days	90 days
	oduct Co	lour Camera CCD aging Block	2 years	1 year
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 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.		D/CRT Monitors	2 years	1 year
		DLP™ Projectors	3 years or 5,000 hrs. Whichever comes first	3 years or 5,000 hrs. Whichever comes first
		CD Projectors above ,500 ANSI Lumens	3 years or 2,500 hrs. Whichever comes first	3 years or 2,500 hrs. Whichever comes first.
	* L	CD Projectors below ,500 ANSI Lumens	3 years or 1,500 hrs. Whichever comes first	3 years or 1,500 hrs. Whichever comes first
		ojector Lamps	90 Days or 500 hrs. Whichever comes first	90 Days or 500 hrs. Whichever comes first.
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.	display of Pla	asma Displays	1 year (burn-in not covered)	1 year (burn-in not covered)
		Hard Drive Disk Unit	1 year plus balance (if any) of any original Manufacturer's Limited Warranty.	1 year
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.			(Content not covered)	
		 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. 		
In certain instances, some jurisdictions do not allow the exclusion or limitatio incidental or consequential damages, or the exclusion of implied warranties, above limitations and exclusions may not be applicable.	so the If t ori ad yo An rec	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 Broadcast Service Centre in your area or to Panasonic Broadcast & Security Systems Service 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

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

The guarantee that you will always be a satisfied customer

Panasonic de México, S.A. de C.V. Moras No. 313 Col. Tlacoquemecatl Del Valle, Deleg. Benito Juárez, Zipcode 03200, Mexico City Tel: 5488-1000 with 30 lines



Customer's Record

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

Model Number

Serial Number

Matsushita Electric Industrial Co., Ltd.

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