



Panasonic®

Operating Instructions Progressive Wide Plasma Display

Manual de instrucciones Pantalla panorámica de plasma progresiva

Model No. **TH-42PS9UK**
Número de modelo. **TH-42PS9XK**

High Definition Plasma Display Pantalla de Plasma de Alta Definición

Model No. **TH-37PH9UK**
Número de modelo. **TH-42PH9UK**
TH-42PH9XK
TH-50PH9UK
TH-50PH9XK

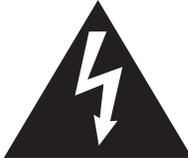


The illustration shown is an image.
Before connecting, operating or adjusting this product, please read these instructions completely.
Please keep this manual for future reference.

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

	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 Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor 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-42PS9UK, TH-37PH9UK, TH-42PH9UK, TH-50PH9UK

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

CANADIAN NOTICE:

For Models TH-42PS9UK, TH-37PH9UK, TH-42PH9UK, TH-50PH9UK

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 after-image 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



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 Matsushita Electric Industrial Co., Ltd.)

- Speakers TY-SP37P8W-K (TH-37PH9UK),
TY-SP42P8W-K (TH-42PS9UK, TH-42PS9XK,
TH-42PH9UK, TH-42PH9XK),
TY-SP50P8W-K (TH-50PH9UK, TH-50PH9XK)
- Pedestal..... TY-ST07-K, TY-ST08-K
- Wall stand..... TY-ST42PW1
- Mobile stand TY-ST42PF3 (except TH-37PH9UK)
- Wall-hanging bracket (vertical) TY-WK37PV3 (TH-37PH9UK)
TY-WK42PV7
- Wall-hanging bracket (angled)..... TY-WK42PR7
- Wall-hanging bracket (drawer type)..... TY-WK42DR1 (except TH-37PH9UK)
- Ceiling-hanging bracket..... TY-CE42PS7
- BNC Component Video Terminal Board TY-42TM6A
- BNC Composite Video Terminal Board..... TY-42TM6B
- BNC Dual Video Terminal Board TY-FB9BD
- 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..... TY-42TM6G
- PC Input Terminal Board TY-42TM6P
- Composite / Component Video Terminal Board..... TY-42TM6Y
- SDI Terminal Board..... TY-FB7SD
- HD-SDI Terminal Board TY-FB7HD, TY-FB9HD
- HDMI Terminal Board TY-FB8HM
- Ir Through Terminal Board TY-FB9RT (TH-42PS9XK, TH-42PH9XK, TH-50PH9XK)
- Touch Panel..... TY-TP42P8-S (TH-42PS9UK, TH-42PS9XK,
TH-42PH9UK, TH-42PH9XK),
TY-TP50P8-S (TH-50PH9UK, TH-50PH9XK)

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 after-image 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.

■ AC Power Supply Cord

The Plasma Display is designed to operate on 120 V AC, 50/60 Hz (TH-42PS9UK, TH-37PH9UK, TH-42PH9UK, TH-50PH9UK) or on 110 - 127 V AC, 50/60 Hz (TH-42PS9XK, TH-42PH9XK, TH-50PH9XK).

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 to which a small amount of neutral detergent has been added, 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.

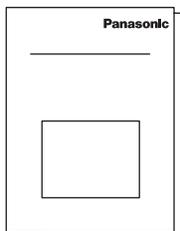
- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface 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



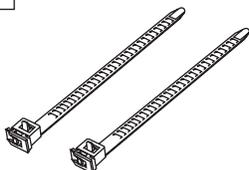
Remote Control Transmitter EUR7636070R



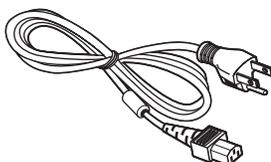
Batteries for the Remote Control Transmitter (2 x AA Size)



Fixing bands x 2



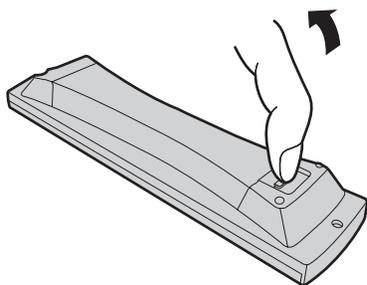
AC cord



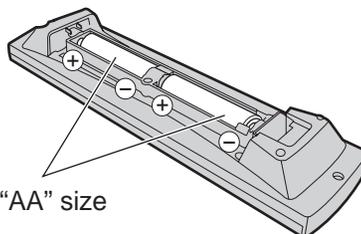
Remote Control Batteries

Requires two AA batteries.

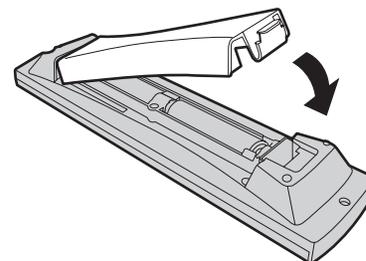
1. Pull and hold the hook, then open the battery cover.



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.

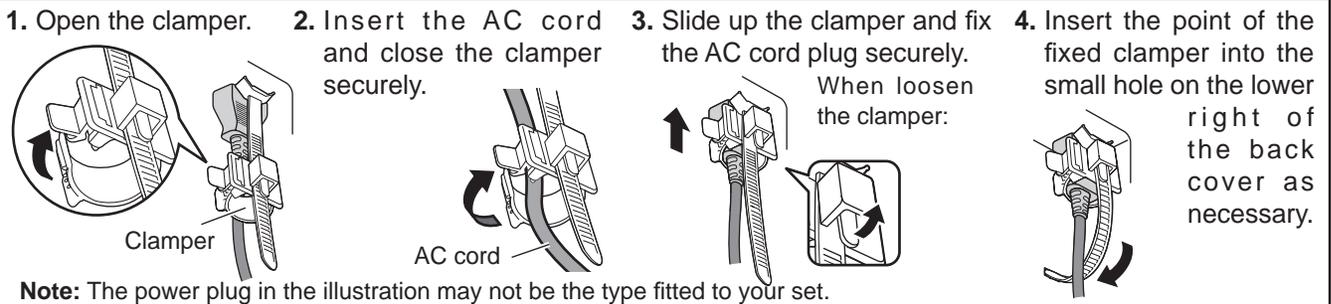
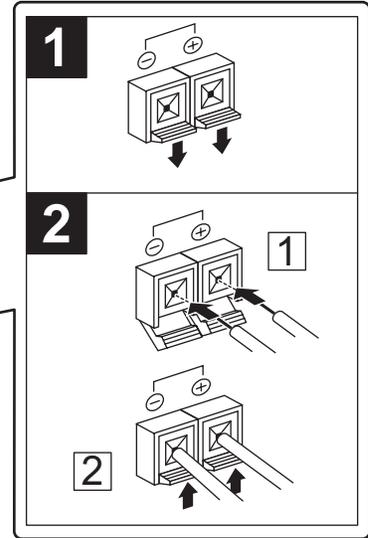
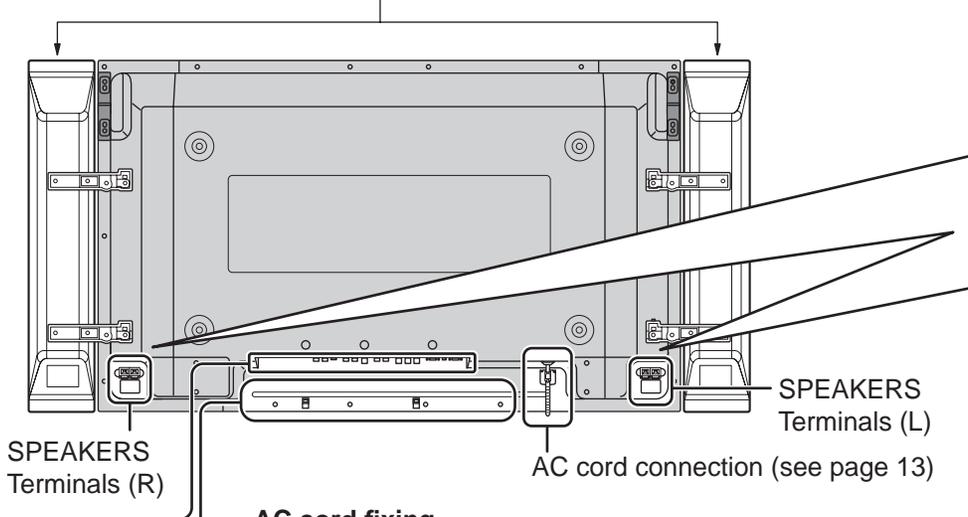
Observe the following precautions:

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

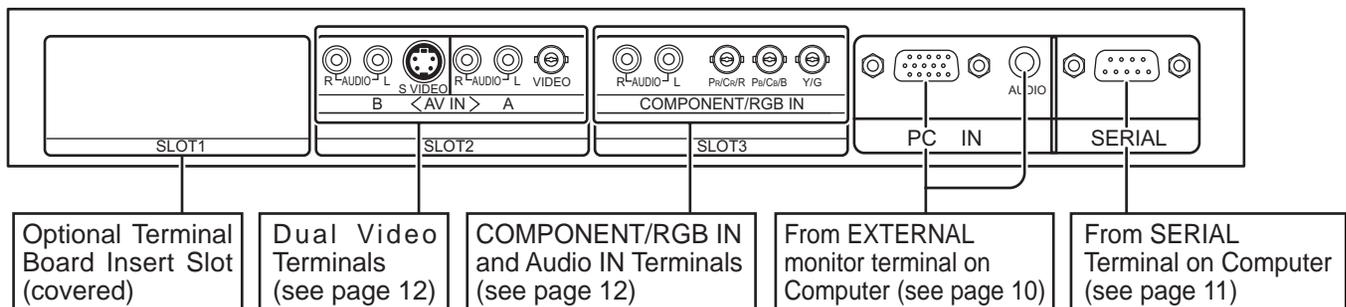
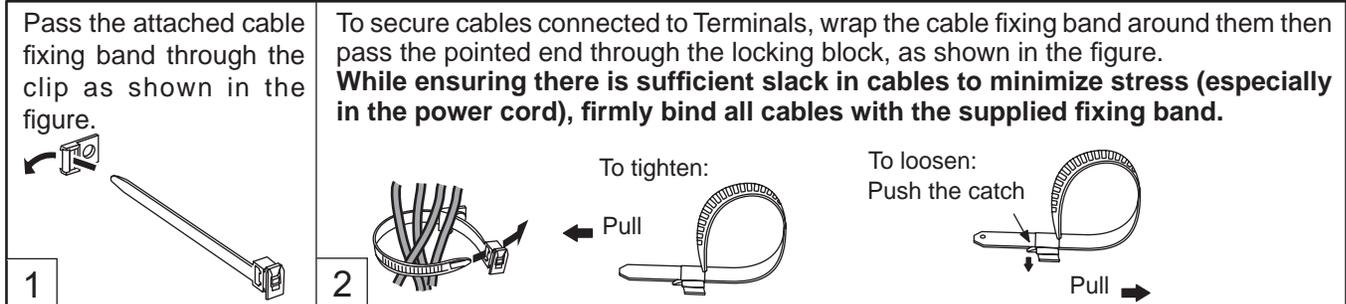
When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.
(Example: TH-42PS9UK)

Speakers (Optional accessories)



– Cable fixing bands

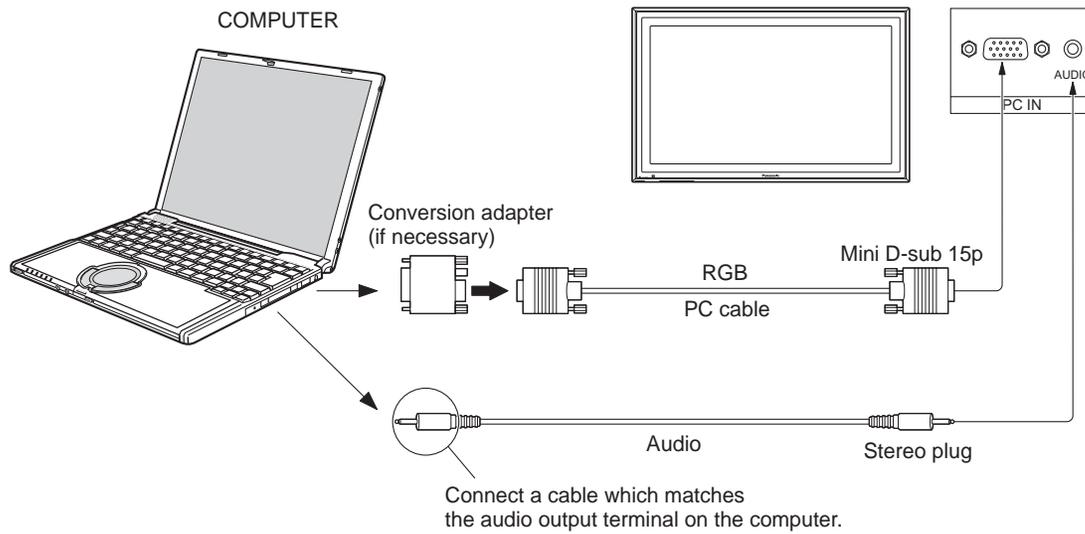
Secure any excess cables with bands as required.



Notes:

- At factory shipment, Terminal boards are installed in SLOT 2 and SLOT 3.
- TH-37PH9UK has two slots only.

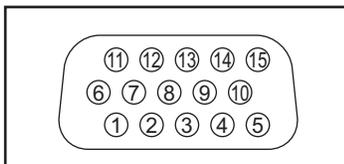
PC Input Terminals connection



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 640 × 480 dots (TH-42PS9UK, TH-42PS9XK), 768 × 720 dots (TH-37PH9UK), 768 × 768 dots (TH-42PH9UK, TH-42PH9XK), 1,024 × 768 dots (TH-50PH9UK, TH-50PH9XK) when the aspect mode is set to "NORMAL", and 852 × 480 dots (TH-42PS9UK, TH-42PS9XK), 1,024 × 720 dots (TH-37PH9UK), 1,024 × 768 dots (TH-42PH9UK, TH-42PH9XK), 1,366 × 768 dots (TH-50PH9UK, TH-50PH9XK) 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 DDC1/2B-compatible. If the computer being connected is not DDC1/2B-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.

Signal Names for Mini D-sub 15P Connector

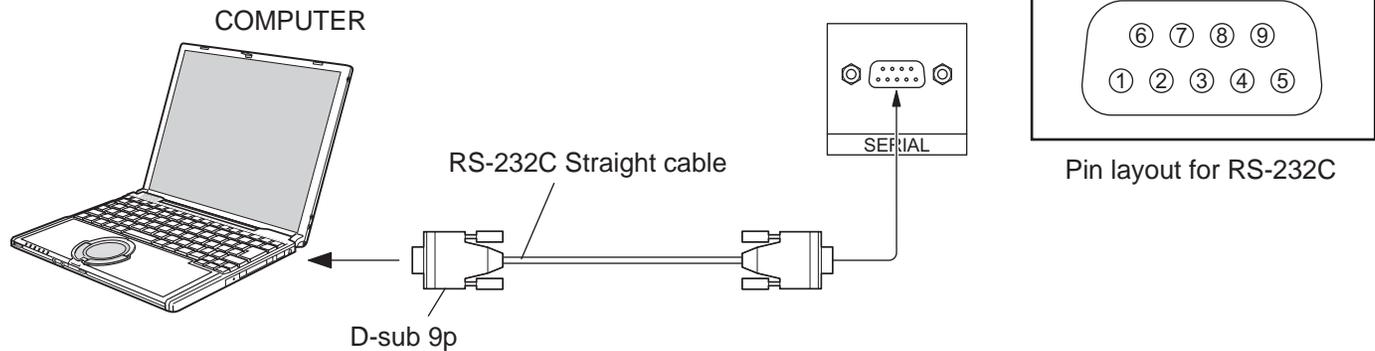


Pin Layout for PC Input Terminal

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.



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.

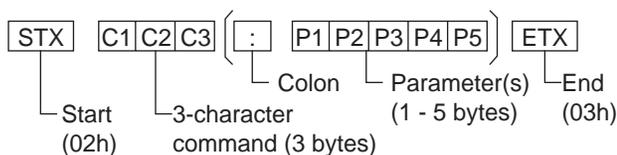
Communication parameters

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	R X D
③	T X D
⑤	GND
④ • ⑥	Non use
⑦	Shorted
⑧	
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:

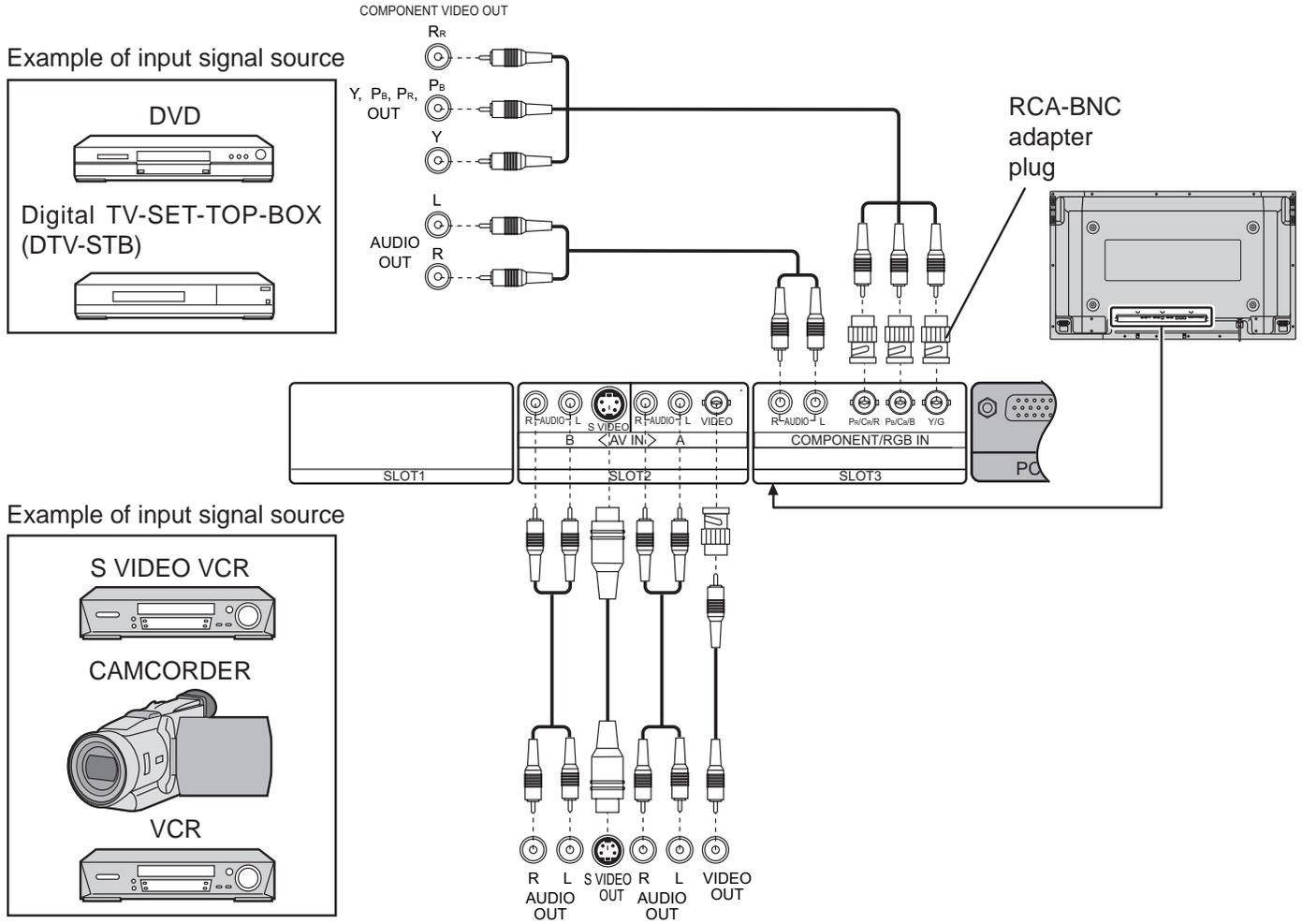
- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.

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	Input select (toggle)
	SL1	Slot1 input
	SL2	Slot2 input
	SL3	Slot3 input
	PC1	PC input
DAM	None	Screen mode select (toggle)
	NORM	NORMAL (4 : 3)
	ZOOM	ZOOM
	FULL	FULL
	JUST	JUST
	SELF	Panasonic AUTO

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

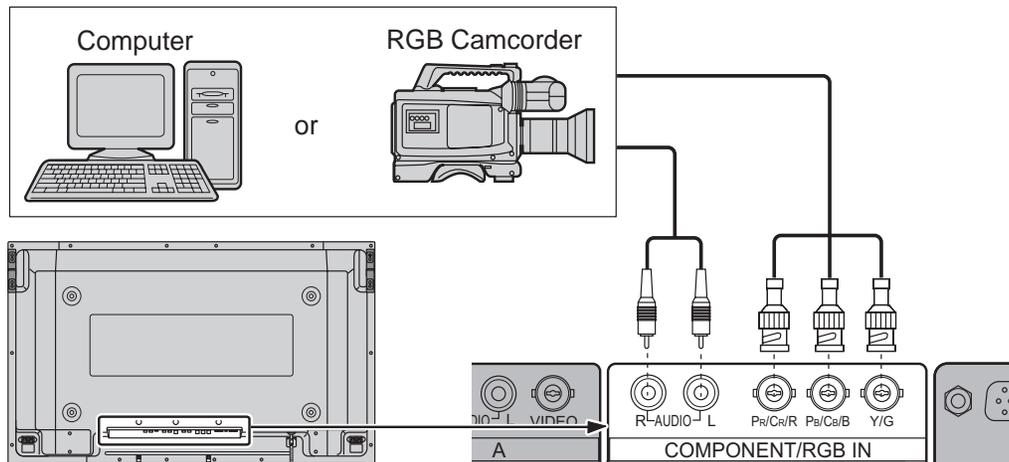
AV & COMPONENT / RGB connection



Notes:

- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT". (see page 38)
- Additional equipment, cables and adapter plugs shown are not supplied with this set.

RGB signal (R, G, B)



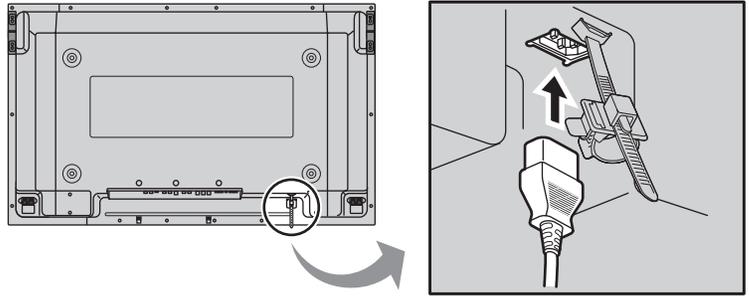
Notes:

- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "RGB". (see page 38)
- Additional equipment, cables and adapter plugs shown are not supplied with this set.
- SYNC ON G signal is needed. (see page 40)

Power ON / OFF

Connecting the AC cord plug to the Plasma Display.

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

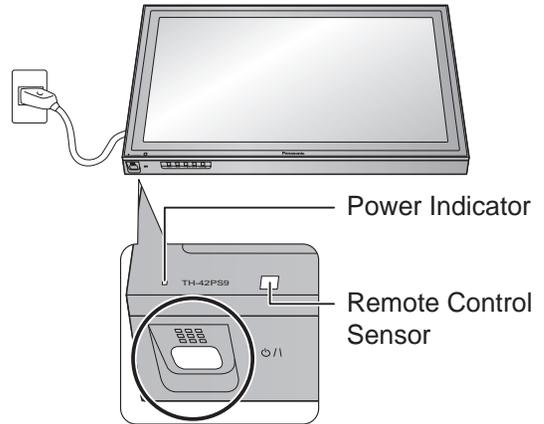


Connecting the plug to the Wall Outlet

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.)



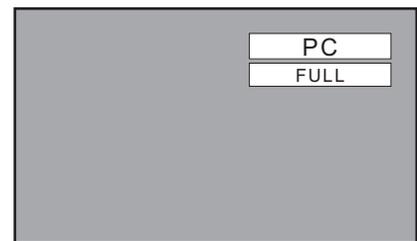
When the POWER is turned on for the first time, the LANGUAGE selection screen is displayed.

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.



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



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

Power Indicator: Red (standby)



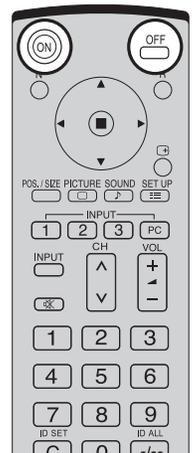
Press the ON button on the remote control to turn the Plasma Display on.

Power Indicator: Green

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

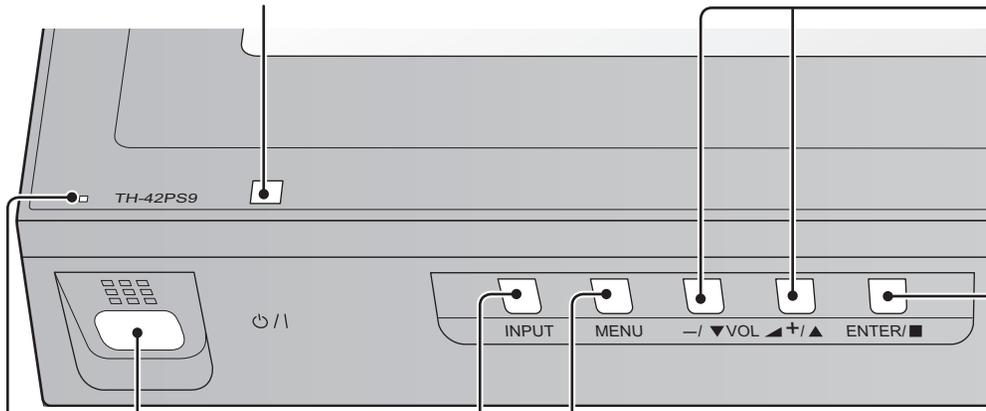
Note:

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



Basic Controls

Remote control sensor



Volume Adjustment

Volume Up “+” Down “-”
When the menu screen is displayed:
“+”: press to move the cursor up
“-”: press to move the cursor down
(see page 16)

Enter / Aspect button

(see page 16, 19)

Main Power On / Off Switch

Power Indicator

The Power Indicator will light.

- Power-OFF Indicator not illuminated (The unit will still consume some power as long as the power cord is still inserted into the wall outlet.)
- Standby Red
- Power-ON Green
- DPMS.....Orange (With PC input signal and during operation of PC's screensaver.)

MENU Screen ON / OFF

Each time the MENU button is pressed, the menu screen will switch. (see page 16)



INPUT button

(INPUT1, INPUT2, INPUT3 and PC IN selection)

(see page 18)

N button (see page 20, 23, 24, 25) _____

POS. /SIZE button (see page 20) _____

PICTURE button (see page 23) _____

INPUT button _____

(INPUT1, INPUT2, INPUT3 and PC IN selection)

Press to select INPUT1, INPUT2, INPUT3 and PC IN input SLOTS sequentially. (see page 18)

Sound mute On / Off (see page 25) _____

Numeric buttons (see page 37, 43) _____

ASPECT button _____

Press to adjust the aspect. (see page 19)

MULTI Window buttons (see page 21) _____

SURROUND button

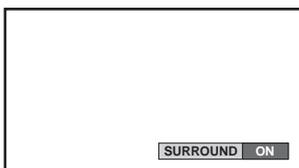
The surround setting switches on and off each time the SURROUND button is pressed.

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).

ON ← → OFF



Standby (ON / OFF) button

The Plasma Display must first be plugged into the wall outlet and turned on at the power switch (see page 13). Press ON to turn the Plasma Display On, from Standby mode. Press OFF to turn the Plasma Display Off to Standby mode.

POSITION buttons

ACTION button

Press to make selections.

SOUND button

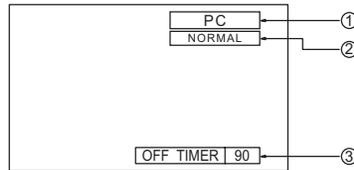
(see page 25)

R button (see page 17)

Press the R button to return to previous menu screen.

Status button

Press the "Status" button to display the current system status.



① Input label

② Aspect mode (see page 19)

③ Off timer

The off timer indicator is displayed only when the off timer has been set.

SET UP button (see page 16, 17)

DIRECT INPUT buttons

Press the INPUT "1", "2", "3" or "PC" input mode selection button to select the INPUT mode.

This button is used to switch directly to INPUT mode.

These buttons can only display the slot which is installed. If you press the button whose slot is not installed, it automatically displays the current input signal.

Note:

After-image (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent after-image (see page 45), this function is not the perfect solution to after-image.

Channel Adjustment

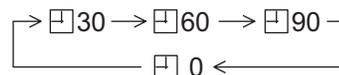
This button cannot be used for this model.

Volume Adjustment

Press the Volume Up "+" or Down "-" button to increase or decrease the sound volume level.

OFF TIMER button

The Plasma Display can be preset to switch to stand-by after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.



When three minutes remain, "OFF TIMER 3" will flash.

The off timer is cancelled if a power interruption occurs.

Remote ID lock (see page 37)

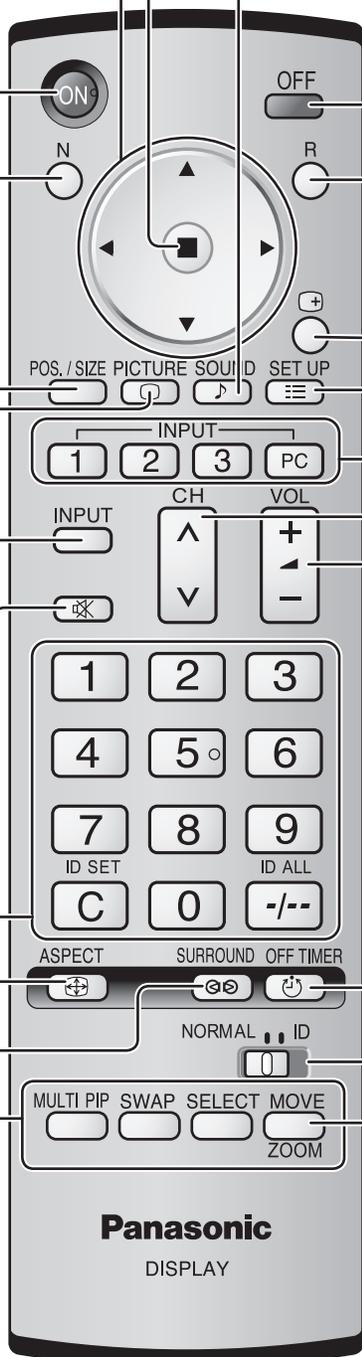
Digital Zoom (see page 26)



Press to access Digital Zoom.

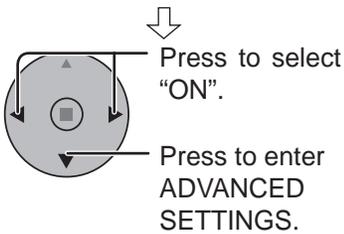
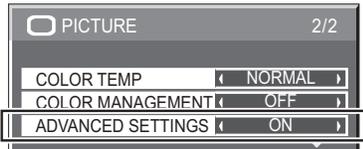
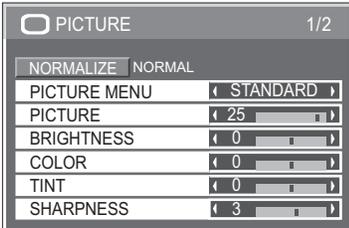


This displays an enlargement of the designated part of the displayed image.

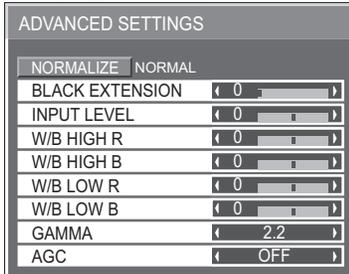


On-Screen Menu Displays

To PICTURE adjust menu (see page 23)

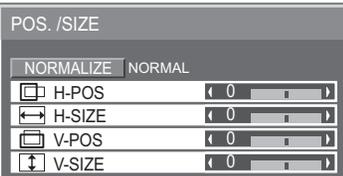


To ADVANCED SETTINGS (see page 23, 24)

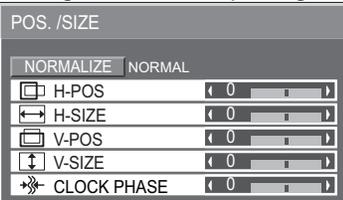


To POS. /SIZE adjust menu (see page 20)

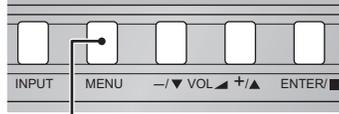
During "VIDEO (S VIDEO)", "COMPONENT" and "Digital" input signal.



During "RGB/PC" input signal.

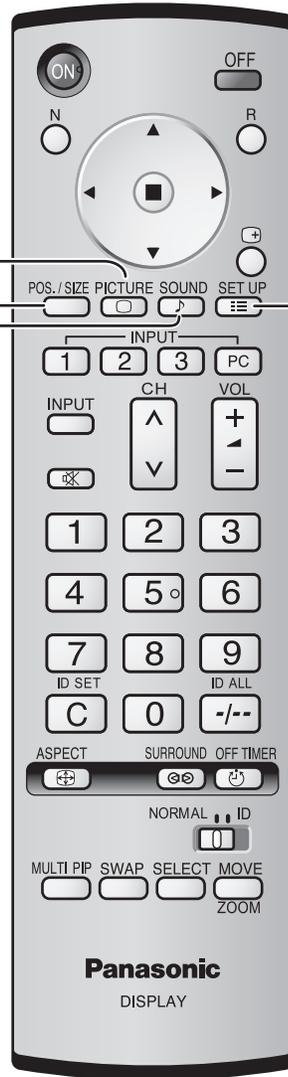


The MENU button on the unit can also be pressed.

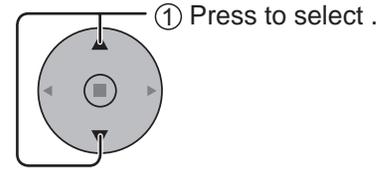
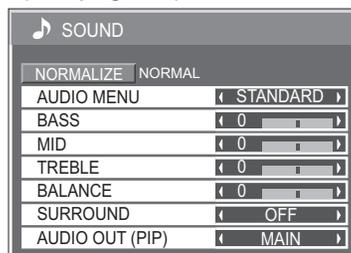


Each time the MENU button is pressed, the menu screen will switch.

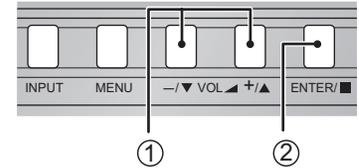
→ Normal Viewing → PICTURE → SETUP
SOUND ← POS. /SIZE ←



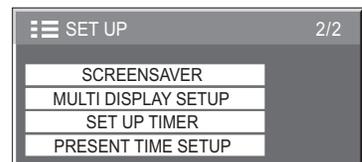
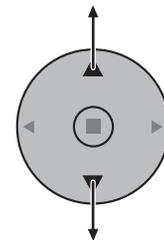
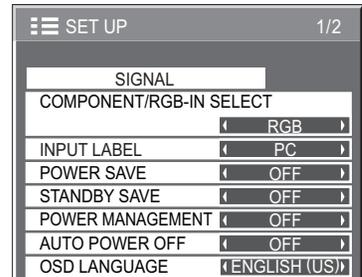
To SOUND adjust menu (see page 25)

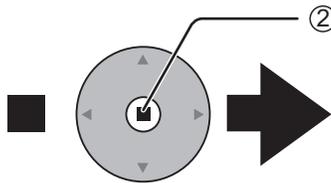


[from the unit]



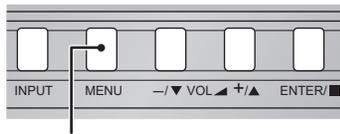
- ① Press to select.
- ② Press to access each adjust screen.



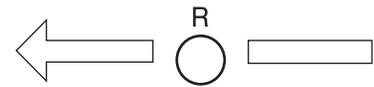


② Press to access each adjust screen.

[from the unit]



Press to return to next menu screen.



Press the R button to return to previous menu.

To SIGNAL screen for VIDEO (S VIDEO) (see page 38, 39)

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

To SIGNAL screen for COMPONENT (see page 39)

SIGNAL [COMPONENT]	
3 : 2 PULLDOWN	OFF
VIDEO NR	OFF

To SIGNAL screen for RGB (see page 39, 40)

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

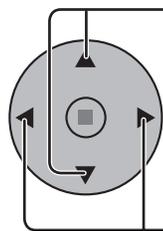
To SIGNAL screen for Digital (see page 39, 40)

SIGNAL [Digital]	
3 : 2 PULLDOWN	OFF
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)

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

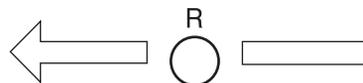


Press to select START TIME/ FINISH TIME (When TIME OF DAY is selected).
Press to select SHOW DURATION/ SAVER DURATION (When INTERVAL is selected).

Press to set up.

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

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



Press the R button to return to "SET UP" menu.

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

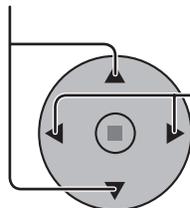
To setup MULTIDISPLAY screen. (See page 33)

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
ARRANGEMENT	2 x 2
LOCATION	A1

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

SET UP TIMER	
PRESENT TIME OF DAY	99:99
POWER ON FUNCTION	OFF
POWER ON TIME	0:00
POWER OFF FUNCTION	OFF
POWER OFF TIME	0:00

Press to select POWER ON TIME / POWER OFF TIME.



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

SET UP TIMER	
PRESENT TIME OF DAY	99:99
POWER ON FUNCTION	OFF
POWER ON TIME	0:00
POWER OFF FUNCTION	OFF
POWER OFF TIME	0:00

To PRESENT TIME SETUP. (see page 27)

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



Press the R button to return to "SET UP" menu.

SET UP TIMER	
PRESENT TIME OF DAY	99:99
POWER ON FUNCTION	OFF
POWER ON TIME	0:00
POWER OFF FUNCTION	OFF
POWER OFF TIME	0:00

Initial selections

Selecting the input signal

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



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

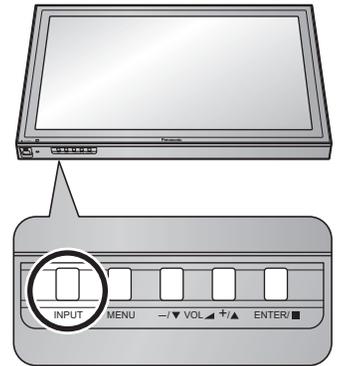
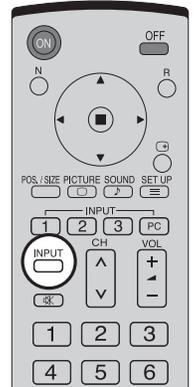
Input signals will change as follows:

- TH-37PH9UK

→ INPUT1 → INPUT2 → PC IN

- TH-42PS9UK, TH-42PS9XK, TH-42PH9UK, TH-42PH9XK, TH-50PH9UK, TH-50PH9XK

→ INPUT1 → INPUT2 → INPUT3 → PC IN



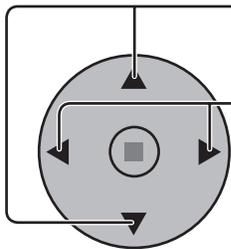
Notes:

- 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 38)
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.

Selecting the On-Screen Menu Language



Press to display the SET UP menu.

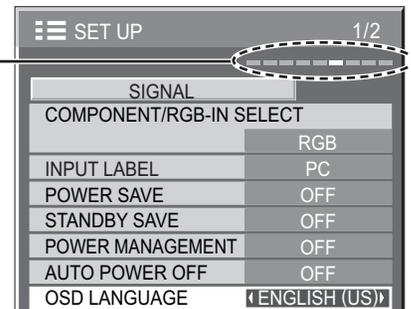
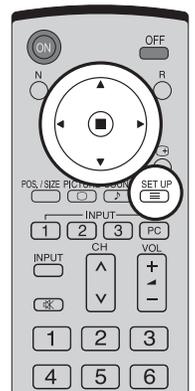


Press to select OSD LANGUAGE.

Press to select your preferred language.

■ Selectable languages

- English(UK)
- Deutsch
- Français
- Italiano
- Español
- ENGLISH(US)
- 中文.....(Chinese)
- 日本語.....(Japanese)
- Русский.....(Russian)



ASPECT Controls

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

ASPECT



Press repeatedly to move through the aspect options:



[from the unit]



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

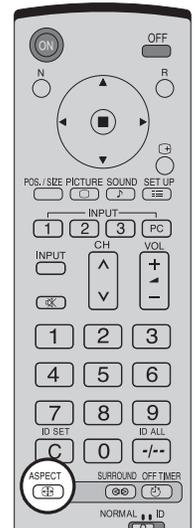
[During MULTI PIP Operations]

• Picture and Picture, Picture in Picture :

• Others : Aspect switching is not possible.

Notes:

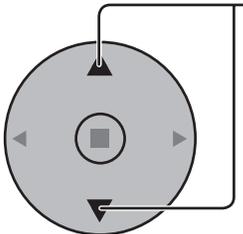
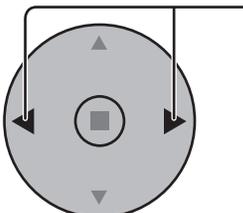
- For PC signal input, the mode switches between "NORMAL", "ZOOM" and "FULL" only.
- For a 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p signal input, the mode is set to "FULL" mode, and switching is not possible.
- Panasonic AUTO can be selected only during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

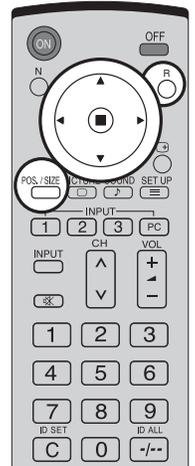


Mode	Picture	Explanation
NORMAL		NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with slight elongation.
JUST		JUST mode will display a 4:3 picture at its maximum size 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	<p>For an elongated image</p> <p>For a 4:3 image</p> <p>Image is expanded in accordance with the Panasonic AUTO mode setting (see page 39).</p>	<p>The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size.</p> <p>Notes:</p> <ul style="list-style-type: none"> • 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 TY-FB9BD (optional BNC Dual Video Terminal Board) is installed.

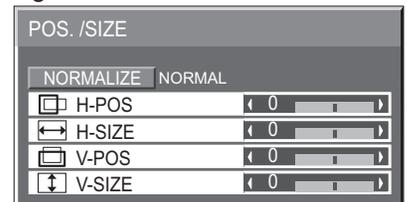
Note: Do not allow the picture to be displayed in NORMAL mode for an extended period, as this can cause a permanent after-image to remain on the Plasma Display Panel.

Adjusting POS. /SIZE

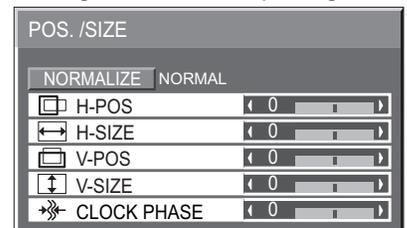
- 1  Press to display the POS. /SIZE menu.
- 2  Press to select H-POS / H-SIZE / V-POS / V-SIZE / CLOCK PHASE.
- 3  Press to adjust POS. /SIZE.
- 4  Press to exit from adjust mode.



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



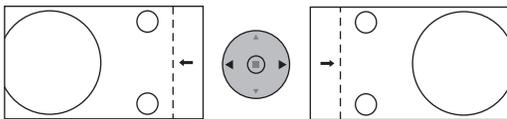
During "RGB / PC" input signal.



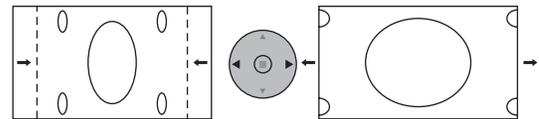
Notes:

- 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.)
- 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.

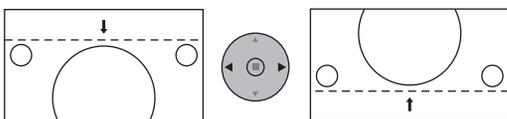
H-POS Adjust the horizontal position.



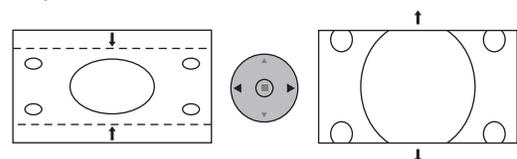
H-SIZE Adjust the horizontal size.



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)

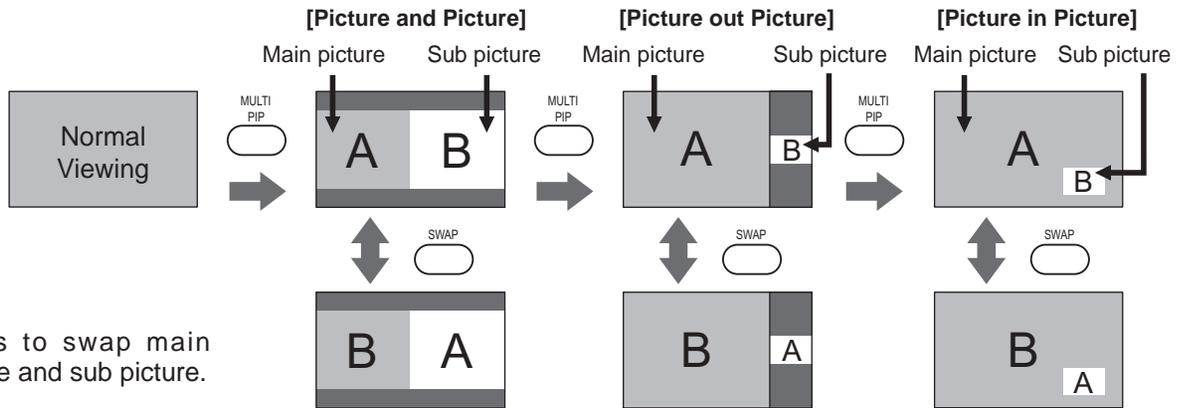
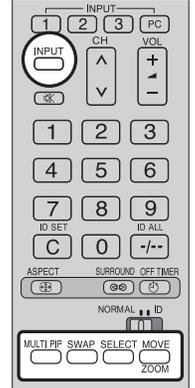
While the POS. /SIZE display is active, if either the N button on the remote control is pressed at any time or the ACTION () button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

MULTI PIP

MULTI PIP



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



SWAP



Press to swap main picture and sub picture.

SELECT

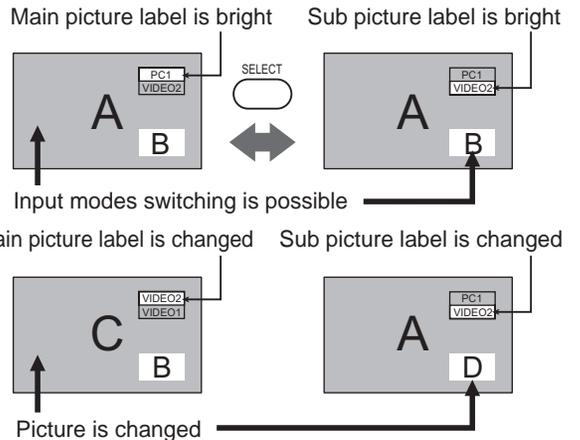


Press to select the input mode.
Under main Picture and sub picture display, select the picture which you would like to change input modes.

Notes:

- The sub picture sound is heard while a sub picture operation is underway.
- The sub picture operation automatically returns to the main picture operation if a sub picture operation has not been performed for about 5 seconds or if any of the remote control buttons is pressed (except INPUT button).

[Example]



INPUT



Press to change input signal.

MOVE

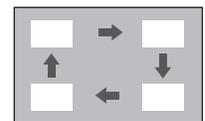


Press to move the sub picture.
Each time the location of the sub picture will be moved.

ZOOM

Notes:

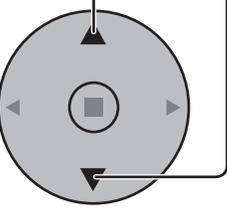
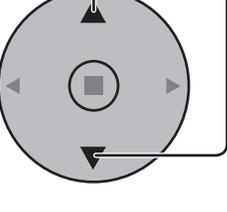
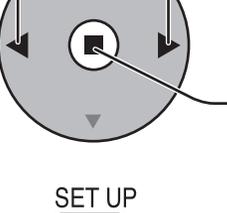
- This button is effective only in the picture in picture.
- The sub picture may be hidden by the on screen display, depending on its position.

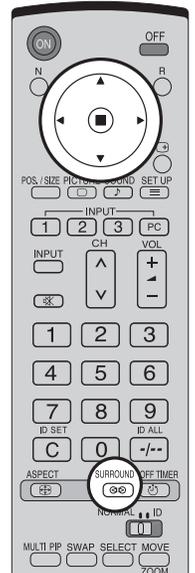


Notes:

- 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)

Advanced PIP

- 1  Press to display the Setup menu.
- 2  Press to select "OSD Language".
- 3  Press and hold until the Options menu is displayed.
- 4  Press to select Advanced PIP.
- 5  Press to adjust the menu.
Off : Sets normal two screen display mode (see page 21).
On : Sets Advanced PIP mode.
 Press to confirm.

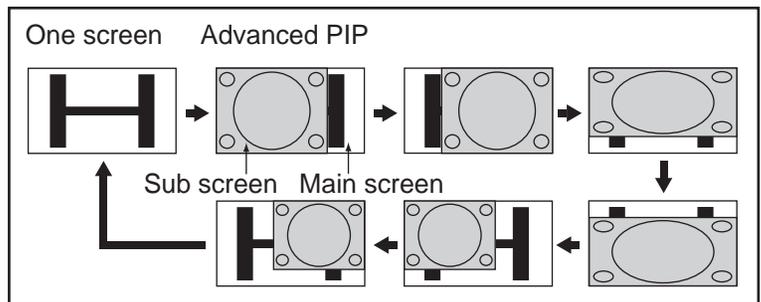


Options		1/3
Off-timer function	Enable	
Onscreen display	On	
Initial INPUT	Off	
Initial VOL level	Off	0
Maximum VOL level	Off	0
INPUT lock	Off	
Studio W/B	Off	
Advanced PIP	Off	▶
Display size	Off	

- 6  Press to exit from Options menu.

(When Advanced PIP is On)

- 7  Press repeatedly.
Each time pressing this button main picture and sub picture will be displayed as above.



Note: To use , , ,  buttons for the screen operations, follow the procedures in the previous page.

- Advanced PIP corresponding signal

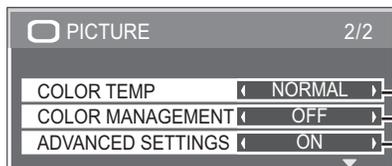
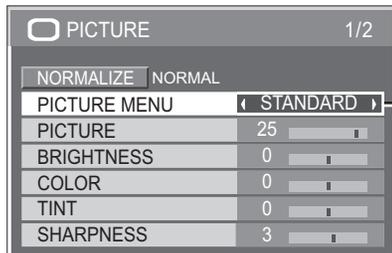
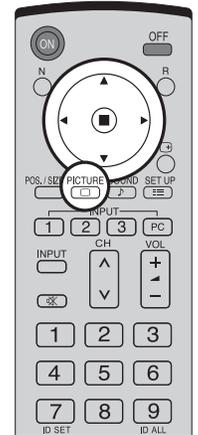
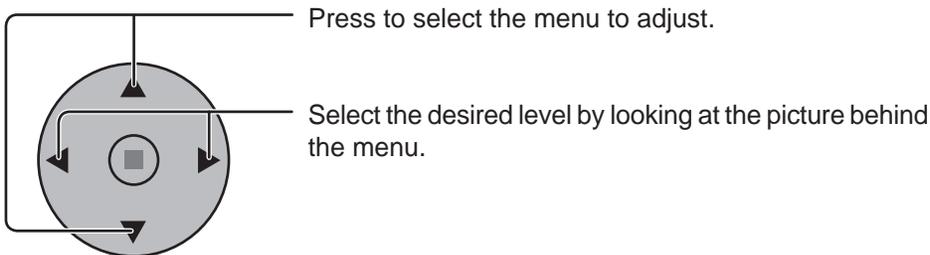
Sub screen	Main screen
NTSC, PAL, SECAM (tuner, video) 525i, 525p, 625i, 625p, 750/60p, 750/50p, 1125/60i, 1125/50i, 1250/50i (Component Video, RGB, DVI, SDI, HDMI)	640x480@60Hz, 852x480@60Hz, 1024x768@60Hz, 1366x768@60Hz (RGB, DVI, HDMI) 1280x768@60Hz (DVI)

- 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  Press to display the PICTURE menu.

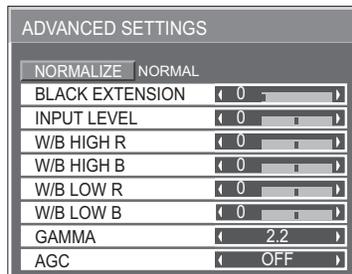
2 Select to adjust each item.



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 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.



COLOR MANAGEMENT ON

Enables vivid color adjustment automatically.

Helpful Hint (/ **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	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.)
W/B HIGH R	Less More	Adjusts the white balance for light red 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 B	Less More	Adjusts the white balance for dark blue areas.
GAMMA	Down Up	S CURVE \longleftrightarrow 2.0 \longleftrightarrow 2.2 \longleftrightarrow 2.5
AGC	OFF ON	Increases the brightness of dark signal automatically.

Notes:

- Carry out “W/B” adjustment as follows.
 1. Adjust the white balance of the bright sections using the “W/B HIGH R” and “W/B HIGH B” settings.
 2. Adjust the white balance of the dark sections using the “W/B LOW R” 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.

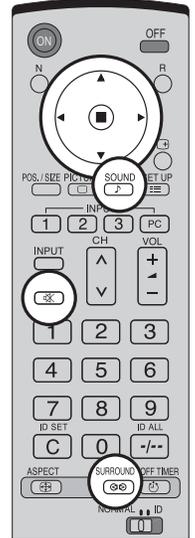
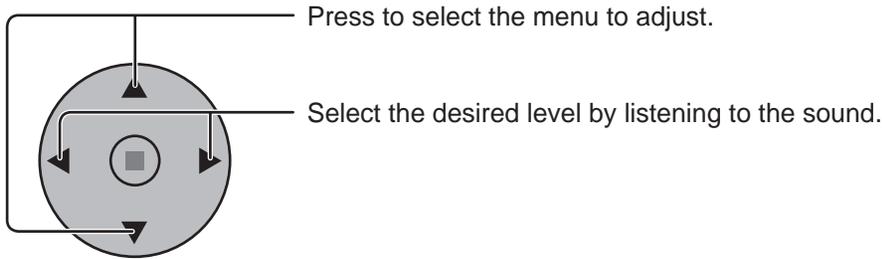
Helpful Hint (/ **NORMALIZE** Normalization)

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

1  Press to display the SOUND menu.

2 Select to adjust each item.



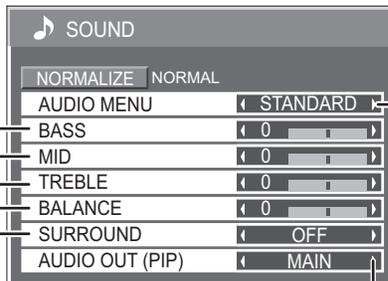
BASS
Adjusts low pitch sounds

MID
Adjusts normal sounds

TREBLE
Adjusts pitch sounds

BALANCE
Adjusts left and right volumes

SURROUND
Select On or Off



STANDARD Emits the original sound.

↕

DYNAMIC Accentuates sharp sound.

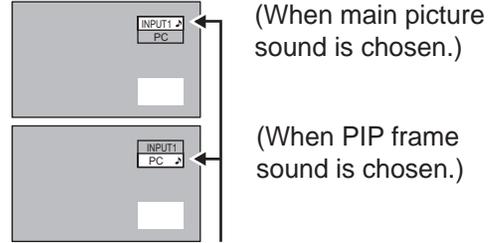
↕

CLEAR Attenuates human voice.

MAIN Selects main picture sound.

↕

SUB Selects PIP frame sound.



Musical note  is displayed on right side of the audio output screen label.

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 (/ **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.

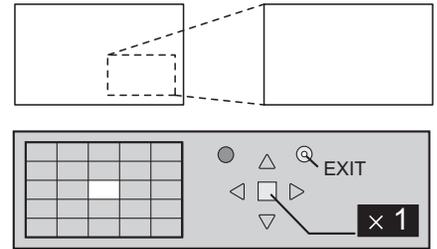
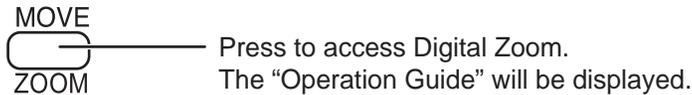


Press this button to mute the sound. Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

Digital Zoom

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

1 Display the "Operation Guide".



During Digital Zoom, only the following buttons can be operated.

[Remote control]



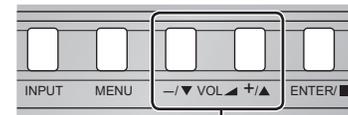
VOL button

MUTE button

SURROUND button

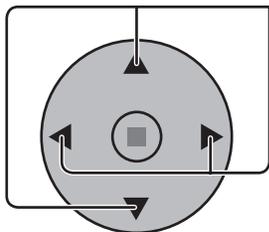
OFF TIMER button

[Unit]



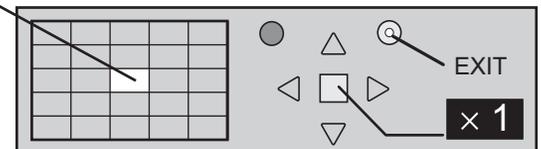
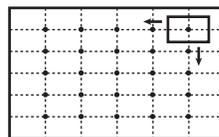
VOL button

2 Select the area of the image to be enlarged.

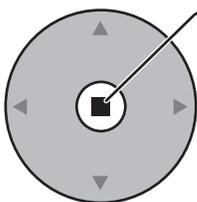


Press on the enlargement location to select.

The cursor will move.



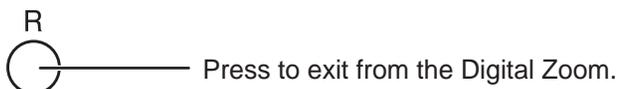
3 Select the magnification required for the enlarged display.



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).



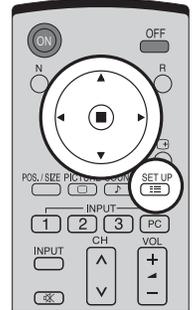
Notes:

- 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.

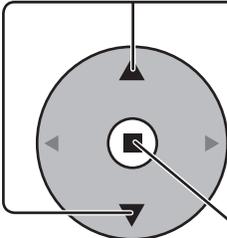
PRESENT TIME SETUP / SET UP TIMER

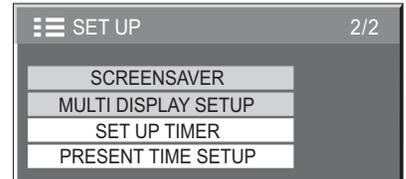
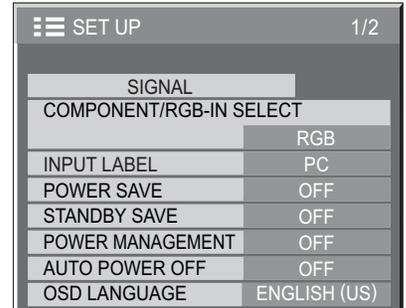
The timer can switch the Plasma Display ON or OFF.

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.

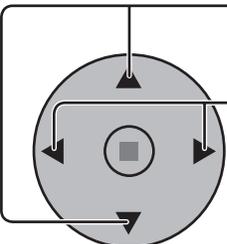
2  Press to select SET UP TIMER or PRESENT TIME SETUP.
Press to display the SET UP TIMER screen or PRESENT TIME SETUP screen.

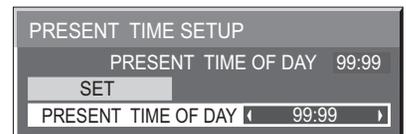


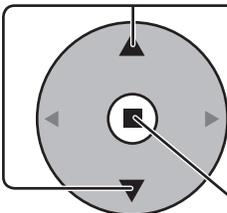
PRESENT TIME SETUP

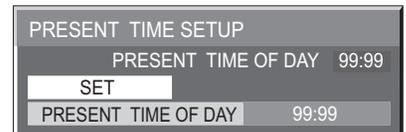
Display the PRESENT TIME SETUP screen.

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

1  Press to select PRESENT TIME OF DAY.
Press to set up 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.
Press to store PRESENT TIME SETUP.



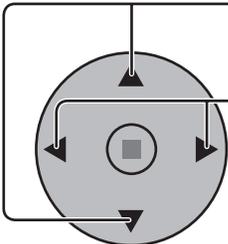
Note:
Set cannot be selected unless PRESENT TIME OF DAY is set.

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.

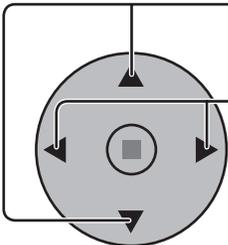
▶ button: Forward
◀ button: Back

SET UP TIMER	
PRESENT TIME OF DAY 99:99	
POWER ON FUNCTION	OFF
POWER ON TIME	◀ 0:00 ▶
POWER OFF FUNCTION	OFF
POWER OFF TIME	◀ 0:00 ▶

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.

SET UP TIMER	
PRESENT TIME OF DAY 99:99	
POWER ON FUNCTION	◀ OFF ▶
POWER ON TIME	0:00
POWER OFF FUNCTION	◀ OFF ▶
POWER OFF TIME	0:00

3



Press twice to exit from SET UP.

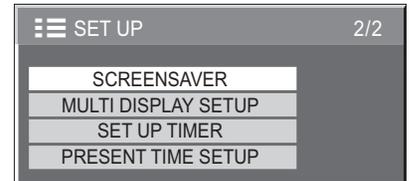
Note:

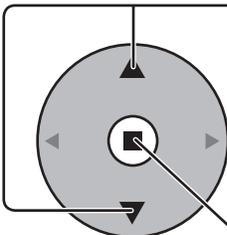
Timer function will not work unless “PRESENT TIME OF DAY” is set.

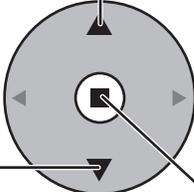
SCREENSAVER (For preventing after-images)

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.

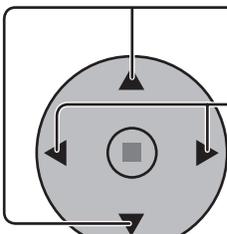
1  Press to display the SET UP menu.

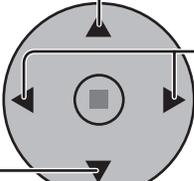


2  Press to select the SCREENSAVER.

 Press to select the SCREENSAVER screen.

3 NEGATIVE / SCROLL selection

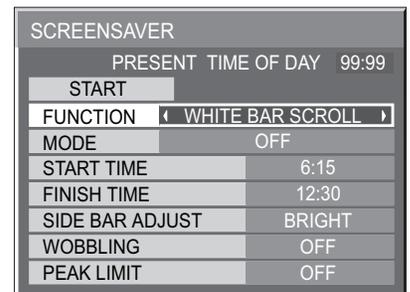
 Press to select the FUNCTION.

 Press to select the desired function.

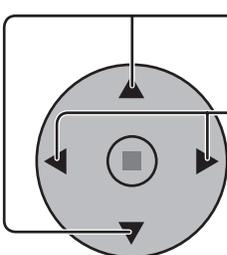
WHITE BAR SCROLL ← → NEGATIVE

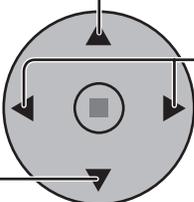
WHITE BAR SCROLL : A white bar will scroll from left to right.

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



4 MODE selection

 Press to select the MODE.

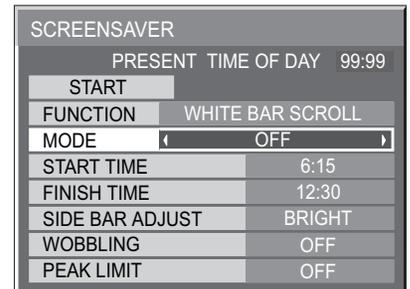
 Press to select each mode items.

OFF
↕
INTERVAL
↕
TIME OF DAY
↕
ON

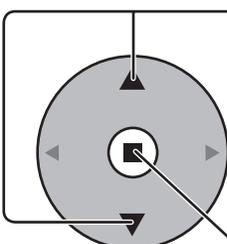
INTERVAL : Operates when SHOW DURATION and SAVER DURATION are set up and those times arrive.

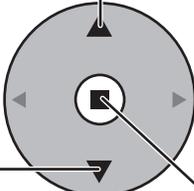
TIME OF DAY : Operates when START TIME and FINISH TIME are set up and those times arrive.

ON : Operates when START is selected and the ACTION (■) button is pressed.

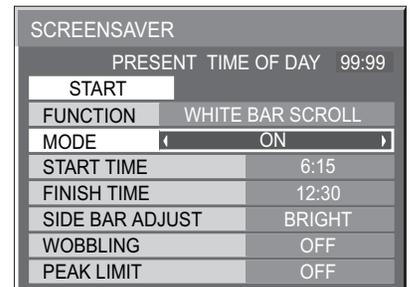


5 START setting

 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.**



SCREENSAVER (For preventing after-images)

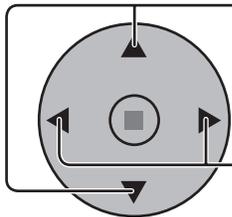
Setup of SCREENSAVER Time

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".)

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

SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	WHITE BAR SCROLL
MODE	INTERVAL
SHOW DURATION	6:15
SAVER DURATION	12:30
SIDE BAR ADJUST	BRIGHT
WOBLING	OFF
PEAK LIMIT	OFF

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
WOBLING	OFF
PEAK LIMIT	OFF



Press to select START TIME / FINISH TIME
(When TIME OF DAY is selected).
Press to select SHOW DURATION / SAVER
DURATION (When INTERVAL is selected).

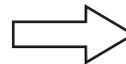
Press to setup.
▶ button: Forward
◀ button: Back

Notes:

- 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 99:99	
START	
FUNCTION	WHITE BAR SCROLL
MODE	TIME OF DAY
START TIME	0:00
FINISH TIME	0:00
SIDE BAR ADJUST	BRIGHT
WOBLING	OFF
PEAK LIMIT	OFF

SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	WHITE BAR SCROLL
MODE	INTERVAL
SHOW DURATION	0:00
SAVER DURATION	0:00
SIDE BAR ADJUST	BRIGHT
WOBLING	OFF
PEAK LIMIT	OFF



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

SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	WHITE BAR SCROLL
MODE	INTERVAL
SHOW DURATION	6:15
SAVER DURATION	12:30
SIDE BAR ADJUST	BRIGHT
WOBLING	OFF
PEAK LIMIT	OFF

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

Reduces screen after-image

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

WOBLING: Automatically shifts the display image at a dot level pitch (therefore unnoticeable to the eye) to prevent after image of sharper contour of image.

ON1: Shifts the image over time.

ON2: Shifts the image 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 45)

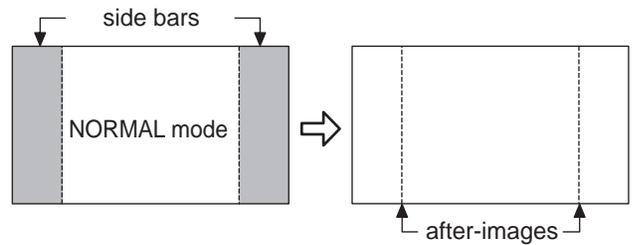
- 1 **SET UP**
Press to display the SET UP menu.
- 2
Press to select "SCREENSAVER".
- 3
Press to display SCREENSAVER menu.
Press to select "WOBLING" or "PEAK LIMIT".
Press to select "ON1", "ON2" or "OFF" (WOBLING).
"ON" or "OFF" (PEAK LIMIT).

SET UP		2/2
SCREENSAVER		
MULTI DISPLAY SETUP		
SET UP TIMER		
PRESENT TIME SETUP		

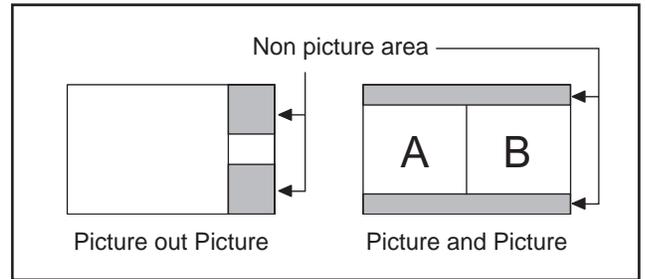
SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	WHITE BAR SCROLL
MODE	OFF
START TIME	6:15
FINISH TIME	12:30
SIDE BAR ADJUST	BRIGHT
WOBLING	OFF
PEAK LIMIT	OFF

SIDE BAR ADJUST

Do not display a picture in NORMAL mode for an extended period, as this can cause an after-image to remain on the side bars on either side of the display field.
To reduce the risk of such an after-image, change the brightness of the side bars.

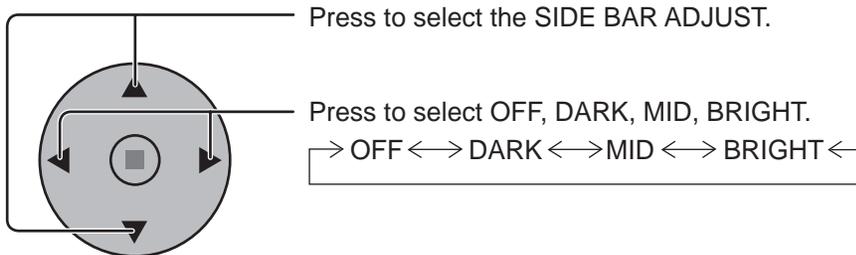


This function may be applicable to the non-picture area.



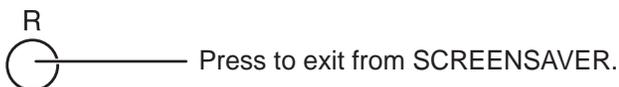
Display the SCREENSAVER screen.
(Refer to the previous page, operation guide steps 1 and 2)

1



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 ▶
WOBBLING	OFF
PEAK LIMIT	OFF

2

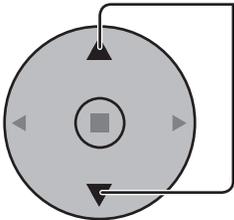
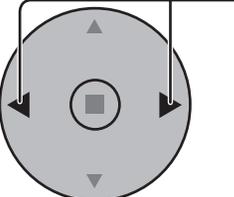


Notes:

- To reduce the occurrence of after-images, 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 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.
- **POWER MANAGEMENT:** The unit power supply is turned ON or OFF depending on whether or not there is a signal 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 signals stop. This function is effective for input signals except input from PC (Mini D-sub) terminal.

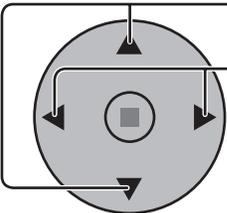
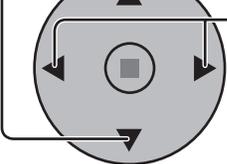
- 1  Press to select "POWER SAVE", "STANDBY SAVE", "POWER MANAGEMENT", "AUTO POWER OFF".
- 2  Press to select "ON" or "OFF".
On ← → Off
- 3  Press to exit from SET UP.

SET UP 1/2	
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)

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 15, 18)

- 1  Press to select INPUT LABEL.
- 2  Press to change the INPUT LABEL.

SET UP 1/2	
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)

Note:

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
[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 TY-FB9BD (optional BNC Dual Video Terminal Board) 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

(For TH-42PS9UK, TH-42PS9XK)

By lining up Plasma Displays in groups of 4, 9 or 16 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.

group of 4 (2 × 2 (F))



group of 9 (3 × 3 (F))



group of 16 (4 × 4 (F))



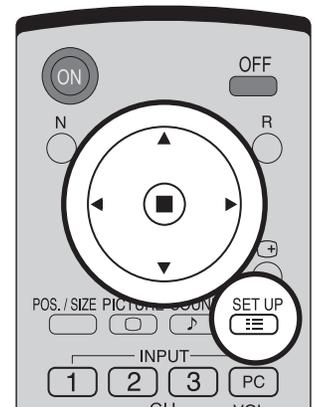
Two options are selectable for MULTI DISPLAY (See page 37).

How to setup MULTI DISPLAY

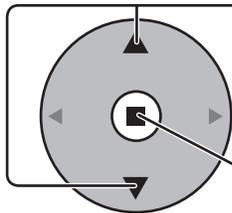
1



Press to display the SET UP menu.

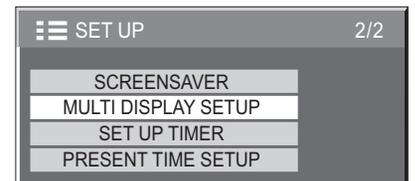


2

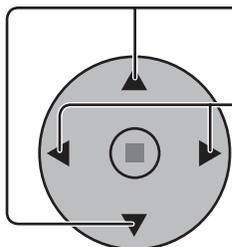


Press to select the MULTI DISPLAY SETUP.

Press to display the "MULTI DISPLAY SETUP" menu.

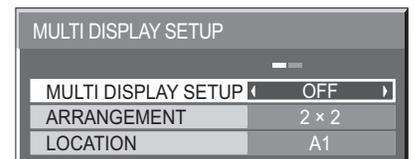


3



Press to select the MULTI DISPLAY SETUP.

Press to select "ON" or "OFF".



How to set the Display location number for each Plasma Display

4

Press to select ARRANGEMENT (2nd step).

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

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
ARRANGEMENT	2 x 2
LOCATION	A1

5

Press to select LOCATION.

Press to select the required arrangement number. (A1-D4 : Refer to the following)

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
ARRANGEMENT	2 x 2
LOCATION	A1

Display Number locations for each arrangement.

(2 x 2 (F))		(3 x 3 (F))			(4 x 4 (F))			
A1	A2	A1	A2	A3	A1	A2	A3	A4
B1	B2	B1	B2	B3	B1	B2	B3	B4
		C1	C2	C3	C1	C2	C3	C4
					D1	D2	D3	D4

6

Press twice to exit from SET UP.

(For TH-37PH9UK, TH-42PH9UK, TH-42PH9XK, TH-50PH9UK, TH-50PH9XK)

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 x 2)



group of 9 (3 x 3)



group of 16 (4 x 4)



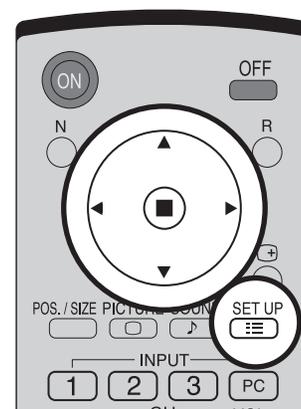
(see page 37 for more displays lineups.)

How to setup MULTI DISPLAY

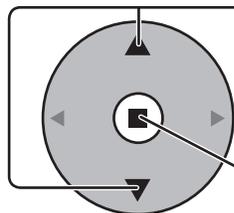
1



Press to display the SET UP menu.

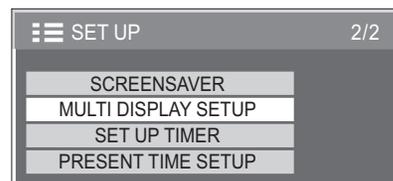


2

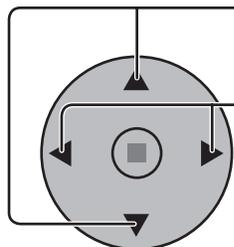


Press to select the MULTI DISPLAY SETUP.

Press to display the "MULTI DISPLAY SETUP" menu.

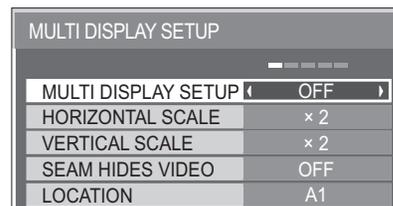


3



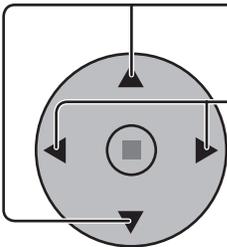
Press to select the MULTI DISPLAY SETUP.

Press to select "ON" or "OFF".



How to set the Display location number for each Plasma Display

4

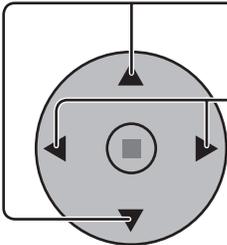


Press to select HORIZONTAL SCALE.

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

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
HORIZONTAL SCALE	◀ x 2 ▶
VERTICAL SCALE	x 2
SEAM HIDES VIDEO	OFF
LOCATION	A1

5

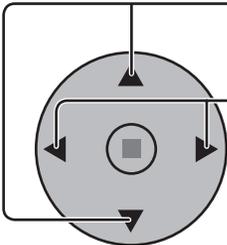


Press to select VERTICAL SCALE.

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

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
HORIZONTAL SCALE	x 2
VERTICAL SCALE	◀ x 2 ▶
SEAM HIDES VIDEO	OFF
LOCATION	A1

6

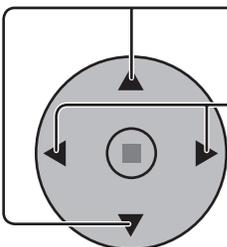


Press to select SEAM HIDES VIDEO.

Press to select "OFF", "ON".

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
HORIZONTAL SCALE	x 2
VERTICAL SCALE	x 2
SEAM HIDES VIDEO	◀ OFF ▶
LOCATION	A1

7



Press to select LOCATION.

Press to select the required arrangement number.
(A1-D4 : Refer to the following)

MULTI DISPLAY SETUP	
MULTI DISPLAY SETUP	OFF
HORIZONTAL SCALE	x 2
VERTICAL SCALE	x 2
SEAM HIDES VIDEO	OFF
LOCATION	◀ A1 ▶

Display Number locations for each arrangement.

(Examples)

(2 x 1)		(2 x 3)		(4 x 2)				(4 x 4)			
A1	A2	A1	A2	A1	A2	A3	A4	A1	A2	A3	A4
		B1	B2	B1	B2	B3	B4	B1	B2	B3	B4
		C1	C2					C1	C2	C3	C4
								D1	D2	D3	D4

8



Press twice to exit from SET UP.

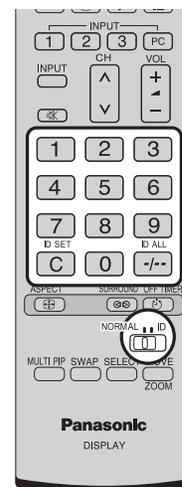
F (SEAM HIDES VIDEO) Setting

Model No.	Reference	To hide joints between TVs.  Suitable for moving image display.	To show joints between TVs.  Suitable for still image display.
TH-42PS9UK TH-42PS9XK	Step 4, Page 34	(2 x 2, 3 x 3, 4 x 4)	(2 x 2F, 3 x 3F, 4 x 4F)
TH-37/42/50PH9UK TH-42/50PH9XK	Step 6, Page 36	ON	OFF

ID Remote Control Function

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

- 1 Switch  to  on the right side.
- 2 Press the  button on the remote control.
- 3 Press one of  - ,  for the tens digit setting.
- 4 Press one of  - ,  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  button.

ID Cancellation

Press  button on remote control. (This has the same effect as pressing the , ,  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 43)
- 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 43).

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 ⇒ "COMPONENT"

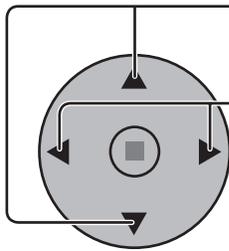
R, G, B, HD, VD signals ⇒ "RGB"

1



Press to display the SET UP menu.

2



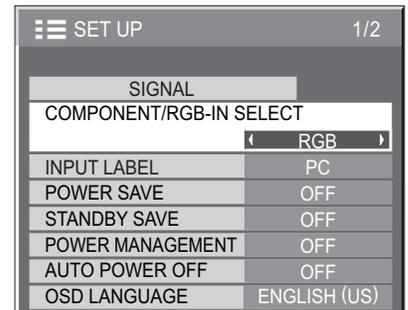
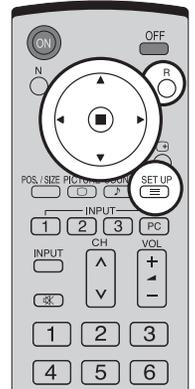
Press to select the "COMPONENT / RGB-IN SELECT".

Press to select the desired mode.
COMPONENT ← → RGB

3



Press to exit from adjust mode.



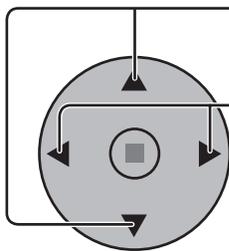
Note:

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



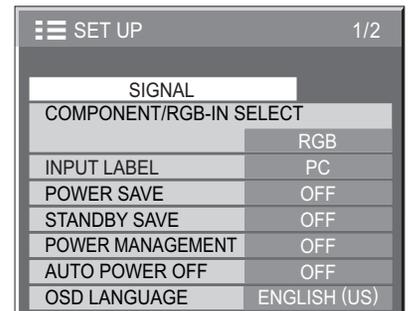
Press to select the "3D Y/C FILTER (NTSC)".

Press to set ON / OFF.

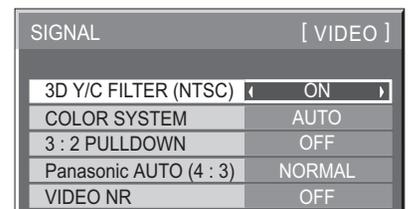
2



Press to exit from adjust mode.



↓ Press ACTION (■) button

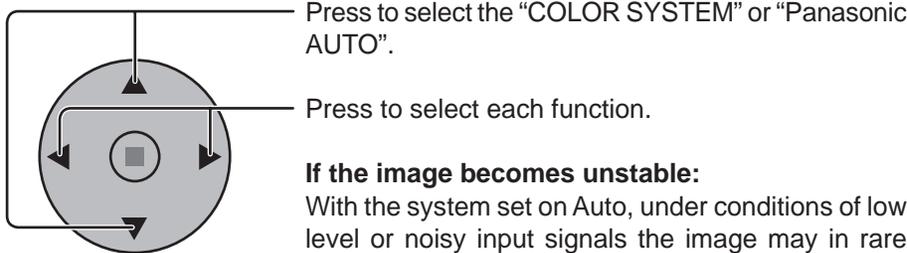


Note:

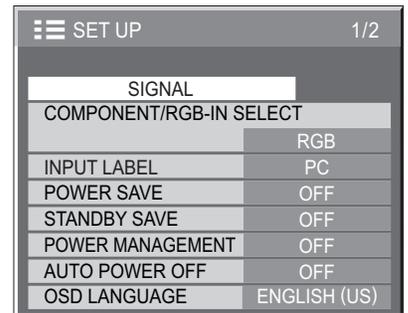
When ON, this setting only affects NTSC input signals.

COLOR SYSTEM / Panasonic AUTO

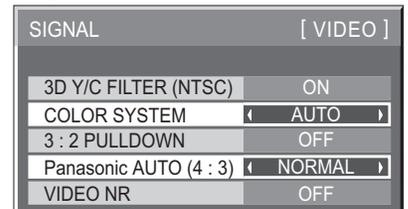
Select SIGNAL from the "SET UP" menu during VIDEO (S VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)



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. If set to "AUTO", the color system is determined automatically. <div style="text-align: center;"> → AUTO ↔ PAL ↔ SECAM ↔ M.NTSC ↔ NTSC ← </div>
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 TY-FB9BD (BNC Dual Video Terminal Board (option)) 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.

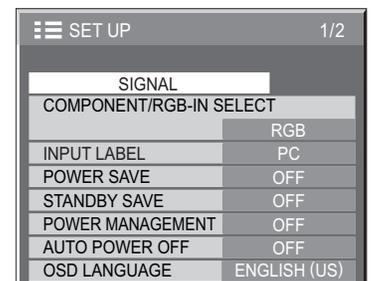
Notes:

- 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.

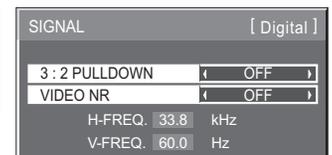
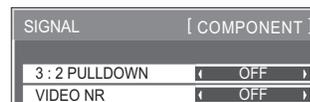
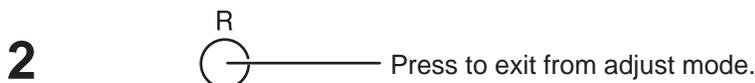
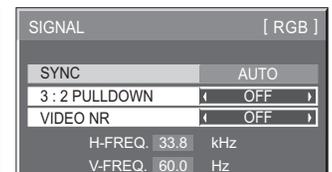
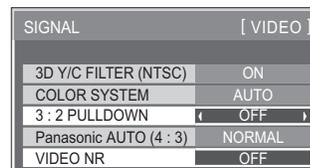
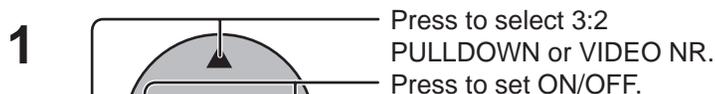
VIDEO NR: Automatically reduces unwanted picture noise.

Note:

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

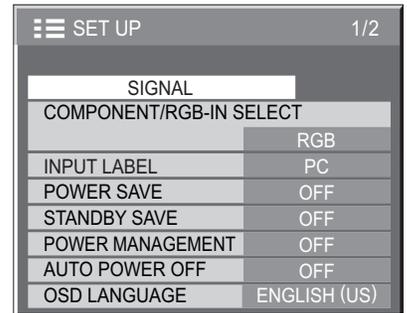
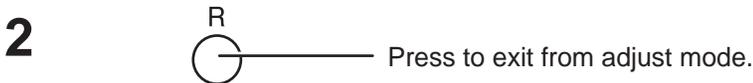
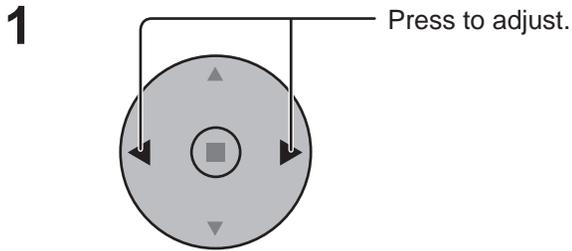


Press ACTION (■) button

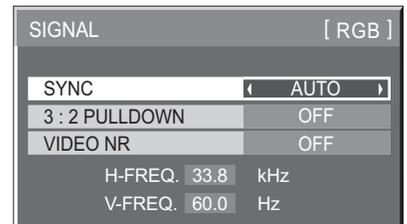


SYNC

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



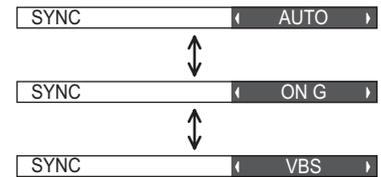
↓ Press ACTION (■) button



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.



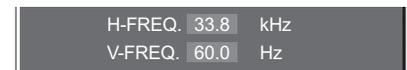
H-FREQ. (kHz) / V-FREQ. (Hz)

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

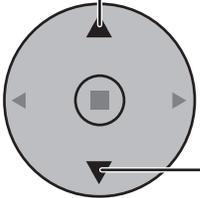
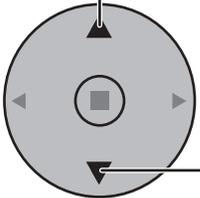
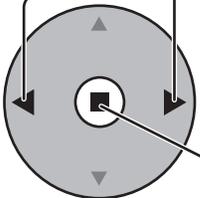
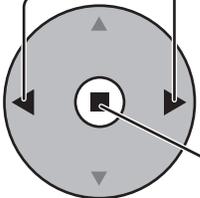
This display is valid only for RGB/PC and Digital input signal.

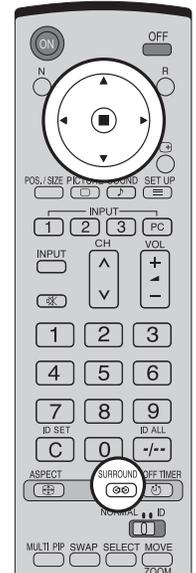
Display range:

- Horizontal 15 - 110 kHz
- Vertical 48 - 120 Hz



Options Adjustments

- 1  Press to display the Setup menu.
- 2  Press to select "OSD Language".
- 3  Press and hold until the Options menu is displayed.
- 4  Press to select your preferred menu.
- 5  Press to adjust the menu.
 Press to confirm.
- 6  Press to exit from Options menu.



Options		1/3
Off-timer function	Enable	▶
Onscreen display	On	▶
Initial INPUT	Off	▶
Initial VOL level	Off	0
Maximum VOL level	Off	0
INPUT lock	Off	
Studio W/B	Off	
Advanced PIP	Off	
Display size	Off	

Item	Effect	Adjustments
Off-timer function	◀ Enable ▶ Disable	Enable: Switches the "Off-timer function" "On" Disable: Switches the "Off-timer function" "Off" Note: When "Disable" is set, the Off-timer is cancelled.
Onscreen display	◀ On ▶ Off	On: Displays all the following on screen. <ul style="list-style-type: none"> • 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 TV is turned on. Notes: <ul style="list-style-type: none"> • 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".

Options Adjustments

Options		1/3
Off-timer function	Enable	
Onscreen display	On	
Initial INPUT	Off	
Initial VOL level	Off	0 ▶
Maximum VOL level	Off	0 ▶
INPUT lock	Off	▶
Studio W/B	Off	▶
Advanced PIP	Off	▶
Display size	Off	▶

Item	Effect	Adjustments
Initial VOL level	◀ Off ▶ On	<p>Press  button to adjust the volume when TV is turned on.</p> <p>Off ↔ On Off: Sets normal volume. On: Sets your preferred volume.</p> <p>Notes:</p> <ul style="list-style-type: none"> 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 menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.
Maximum VOL level	◀ Off ▶ On	<p>Press  button to adjust the maximum volume.</p> <p>Off ↔ On Off: Sets auto maximum volume. On: Sets your preferred maximum volume.</p> <p>Notes:</p> <ul style="list-style-type: none"> 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 ▶ On	<p>Off ↔ PC ↔ INPUT1 ↔ INPUT2 ↔ INPUT3 Locks the input switch operation.</p> <p>Notes:</p> <ul style="list-style-type: none"> 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.
Studio W/B	◀ Off ▶ On	<p>Off: Nullify all the settings adjusted. On: Sets the color temperature for TV studio.</p> <p>Note: Valid only when the low is set as color temperature on screen adjustment.</p>
Advanced PIP	◀ Off ▶ On	<p>Off: Sets normal two screen display mode (see page 21). On: Sets Advanced PIP mode (see page 22).</p> <p>Notes:</p> <ul style="list-style-type: none"> When "INPUT lock" is "On", you cannot use all the two screen display functions.  buttons are unavailable during Advanced PIP mode operation.
Display size	◀ Off ▶ On	<p>Adjusts the image display size on screen.</p> <p>Off: Sets the normal image display size on screen. On: Sets the image display size approximately 95 % of the normal image display.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Off</p>  </div> <div style="text-align: center;"> <p>On</p>  </div> </div> <p>Notes:</p> <ul style="list-style-type: none"> This setting is valid only when the input signals are as follows; 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.

Options		2/3
Button lock	Off	
Remocon User level	Off	
ID select	0	
Remote ID	Off	
Serial ID	Off	

Item	Effect	Adjustments												
Button lock	◀ ▶	<p>Off ↔ MENU&ENTER ↔ On</p> <p>Off: All the buttons at the bottom of the main unit can be used.</p> <p>MENU & ENTER:</p> <p>Locks  and  buttons on bottom face of main unit.</p> <p>On: Locks all the button on bottom face of main unit.</p>												
Remocon User level	◀ ▶	<p>Off ↔ User1 ↔ User2 ↔ User3</p> <p>Off: You can use all of the buttons on the remote control.</p> <p>User1: You can only use , , , , , , , , , ,  buttons on the remote control.</p> <p>User2: You can only use , , buttons on the remote control.</p> <p>User3: Locks all the buttons on remote control.</p>												
ID select	◀ ▶	<p>Sets panel ID number when panel is used in "Remote ID" or "Serial ID".</p> <p>Set value range: 0 - 100</p> <p>(Standard value: 0)</p> <div style="text-align: right;"> <table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>0</td><td></td><td></td></tr> </table> </div>	1	2	3	4	5	6	7	8	9	0		
1	2	3												
4	5	6												
7	8	9												
0														
Remote ID	◀ ▶ Off On	<p>Off: Disables ID remote control functions. You can use normal remote control operations.</p> <p>On: Enable ID remote control functions.</p>												
Serial ID	◀ ▶ Off On	<p>Sets the panel ID Control.</p> <p>Off: Disables external control by the ID.</p> <p>On: Enables the external control by the ID.</p>												

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

Item	Effect	Adjustments
Slot Power	◀ ▶	<p>Off ↔ Auto ↔ On</p> <p>Off: Power is not transmitted to the slot power.</p> <p>Auto: Power is transmitted to the slot power only when main power is on.</p> <p>On: Power is transmitted to the slot power when main power is on or in the standby state.</p> <p>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.</p>
V.Installation	◀ ▶ Off On	<p>Off: Sets fan to the horizontal installation mode.</p> <p>On: Sets fan to the vertical installation mode.</p> <p>Notes:</p> <ul style="list-style-type: none"> • This functions when display is turned on. • This mode is available for TH-42PH9UK, TH-50PH9UK, TH-42PH9XK, TH-50PH9XK. • Vertical installation is available for TH-42PS9UK, TH-42PS9XK without this mode setting. • Turn up the power switch for the upward direction when you set Display vertically.
Rotate	◀ ▶ Off On	<p>Off: Does not rotate the image.</p> <p>On: Rotates the image 180 degrees.</p>
Serial Slot Select	◀ ▶	<p>Slot1 ↔ Slot2 ↔ Slot3</p> <p>Selects the slot which communicates serial.</p> <p>Note: The setting of an external command can be set only from the fixed serial terminal (see page 11)</p>

Normalization

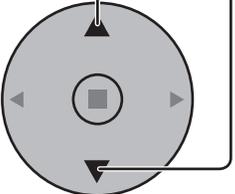
When both main unit buttons and remote control are disabled due to the "Button lock", "Remocon User level" or "Remote ID" adjustments, set all the values "Off" so that all the buttons are enabled again.

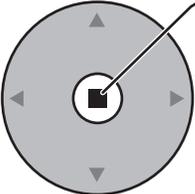
Press the  button on main unit together with  button on the remote control and hold for more than 5 seconds. The "SHIPPING" menu is displayed and the lock is released when it disappears.

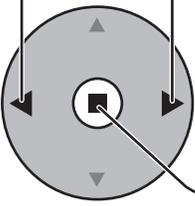
Shipping condition

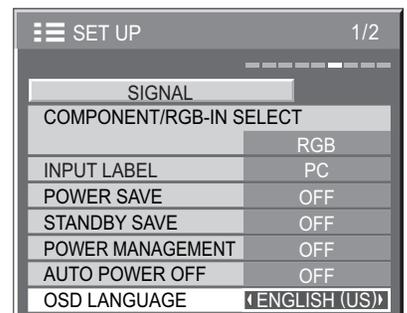
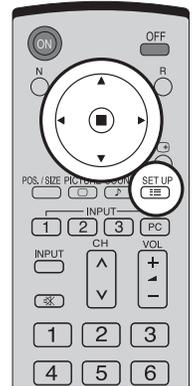
This function allows you to reset the unit to the factory setting.

1  Press to display the SET UP menu.

2  Press to select "OSD LANGUAGE".

3  Press and hold till the SHIPPING menu is displayed.

4  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.

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		Checks
Picture	Sound	
 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 39)
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 special image processing. However, this is not a malfunction.		Hence a slight time lag may occur between image and audio, depending on the type of input signal.

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 after-image 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.
 <p>After-images appear</p>	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image 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 after-image 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.
[for TH-37PH9UK, TH-42PH9UK, TH-42PH9XK, TH-50PH9UK, TH-50PH9XK] 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

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)
1	NTSC	15.73	59.94
2	PAL	15.63	50.00
3	PAL60	15.73	59.94
4	SECAM	15.63	50.00
5	Modified NTSC	15.73	59.94

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

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

*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.

Specifications

TH-42PS9UK, TH-42PS9XK	
Power Source	120 V AC, 50 / 60 Hz (TH-42PS9UK) 110 - 127 V AC, 50 / 60 Hz (TH-42PS9XK)
Power Consumption	
Power on	290W
Stand-by condition	Save OFF 0.6 W, Save ON 0.4 W
Power off condition	0.1 W
Plasma Display panel	Drive method : AC type 42-inch, 16:9 aspect ratio
Contrast Ratio	Max 10000:1
Screen size	36.2" (920 mm) (W) x 20.4" (518 mm) (H) x 42" (1,056 mm) (diagonal)
(No.of pixels)	408,960 (852 (W) x 480 (H)) [2,556 x 480 dots]
Operating condition	
Temperature	32 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %
Applicable signals	
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC
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	
AV	VIDEO IN (BNC) 1.0 Vp-p (75 Ω or high impedance) S VIDEO IN (MINI DIN 4PIN) Y: 1 Vp-p (75 Ω), C: 0.286 Vp-p (75 Ω) AUDIO IN (RCA PIN JACK x 4) 0.5 Vrms
COMPONENT/RGB	Y/G (BNC) Y or G 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 x 2) 0.5 Vrms
PC	(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) with/picture 1.0 Vp-p (high impedance) without/picture 0.3 Vp-p (high impedance) VBS(use HD port) AUDIO IN (M3 JACK) 0.5 Vrms
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 x AA Size
Fixing bands	(TMME203 or TMME187) x 2
Dimensions (W x H x D)	40.2" (1,020 mm) x 24" (610 mm) x 3.5" (89 mm)
Mass (weight)	
main unit only	approx. 57.3 lbs
with speakers	approx. 66.1lbs

Note:

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

Specifications

	TH-37PH9UK	TH-42PH9UK, TH-42PH9XK
Power Source	120 V AC, 50 / 60 Hz (TH-37PH9UK, TH-42PH9UK) 110 - 127 V AC, 50 / 60 Hz (TH-42PH9XK)	
Power Consumption		
Power on	300W	345W
Stand-by condition	Save OFF 0.6 W, Save ON 0.4 W	Save OFF 0.6 W, Save ON 0.4 W
Power off condition	0.1 W	0.1 W
Plasma Display panel	Drive method : AC type 37-inch, 16:9 aspect ratio	
Contrast Ratio	Max 10000:1	
Screen size	32.2" (818 mm) (W) × 18.1" (461 mm) (H) × 37" (939 mm) (diagonal)	36.2" (920 mm) (W) × 20.4" (518 mm) (H) × 42" (1,056 mm) (diagonal)
(No. of pixels)	737,280 (1,024 (W) × 720 (H)) [3,072 × 720 dots]	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		
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC	
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	VGA, SVGA, XGA, SXGA, UXGA (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz
Connection terminals		
AV	VIDEO IN (BNC) S VIDEO IN (MINI DIN 4PIN) AUDIO IN (RCA PIN JACK × 4)	1.0 Vp-p (75 Ω or high impedance) Y: 1 Vp-p (75 Ω), C: 0.286 Vp-p (75 Ω) 0.5 Vrms
COMPONENT/RGB	Y/G (BNC) P _B /B (BNC), P _R /R (BNC) AUDIO IN (RCA PIN JACK × 2)	Y or G with/sync 1.0 Vp-p (75 Ω) 0.7 Vp-p (75 Ω) 0.5 Vrms
PC	(HIGH-DENSITY MINI D-SUB 15PIN) VBS(use HD port) AUDIO IN (M3 JACK)	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) with/picture 1.0 Vp-p (high impedance) without/picture 0.3 Vp-p (high impedance) 0.5 Vrms
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 or TMME187) × 2	
Dimensions (W × H × D)	36.2" (920 mm) × 21.7" (550 mm) × 3.5" (89 mm)	40.2" (1,020 mm) × 24" (610 mm) × 3.5" (89 mm)
Mass (weight)		
main unit only	approx. 50.7 lbs	approx. 59.5 lbs
with speakers	approx. 59.5 lbs	approx. 68.3 lbs

Note:

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

Specifications

		TH-50PH9UK, TH-50PH9XK	
Power Source	120 V AC, 50 / 60 Hz (TH-50PH9UK) 110 - 127 V AC, 50 / 60 Hz (TH-50PH9XK)		
Power Consumption			
Power on	460W		
Stand-by condition	Save OFF 0.5 W, Save ON 0.3 W		
Power off condition	0.1 W		
Plasma Display panel	Drive method : AC type 50-inch, 16:9 aspect ratio		
Contrast Ratio	Max 10000:1		
Screen size	43.5" (1,106 mm) (W) × 24.5" (622 mm) (H) × 50" (1,269 mm) (diagonal)		
(No.of pixels)	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]		
Operating condition			
Temperature	32 °F - 104 °F (0 °C - 40 °C)		
Humidity	20 % - 80 %		
Applicable signals			
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC		
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			
AV	VIDEO IN (BNC) S VIDEO IN (MINI DIN 4PIN) AUDIO IN (RCA PIN JACK × 4)	1.0 Vp-p (75 Ω or high impedance) Y: 1 Vp-p (75 Ω), C: 0.286 Vp-p (75 Ω) 0.5 Vrms	
COMPONENT/RGB	Y/G (BNC) P _B /B (BNC), P _R /R (BNC) AUDIO IN (RCA PIN JACK × 2)	Y or G with/sync 1.0 Vp-p (75 Ω) 0.7 Vp-p (75 Ω) 0.5 Vrms	
PC	(HIGH-DENSITY MINI D-SUB 15PIN) VBS(use HD port) AUDIO IN (M3 JACK)	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) with/picture 1.0 Vp-p (high impedance) without/picture 0.3 Vp-p (high impedance) 0.5 Vrms	
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 or TMME187) × 2		
Dimensions (W × H × D)	47.6" (1,210 mm) × 28.5" (724 mm) × 3.7" (95 mm)		
Mass (weight)			
main unit only	approx. 81.6 lbs		
with speakers	approx. 90.4 lbs		

Note:

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

(for U.S.A.)

Panasonic Broadcast & Television Systems
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North America
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Secaucus, NJ 07094

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

**PANASONIC PLASMA SCREEN
Limited Warranty**

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, of the original purchase in
the event of a defect in materials or workmanship as
follow:

Models or Parts	Part Warranty	Labor Warranty
Plasma Screen	1 Year	1 Year

Carry-in or mail-in service in the **USA** may be obtained
during the warranty period by contacting Panasonic
Broadcast & Television Systems Company Factory
Servicenter listed in the Service Directory or call toll
free **1-800-526-6610** to locate an authorized Servicenter.

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

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
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 damaged this
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 LIMITATION, DAMAGE
TO DISCS) RESULTING FROM THE USE OF THIS
PRODUCT, OR ARISING OUT OF ANY BREACH OF
THE WARRANTY. ALL EXPRESS AND IMPLIED
WARRANTIES, INCLUDING THE WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR
PARTICULAR PURPOSE, ARE LIMITED TO THE
APPLICABLE WARRANTY PERIOD SET FORTH
ABOVE.

Some states do not allow the exclusion or limitation
of incidental or consequential damages, or limitations
on how long an implied warranty lasts, so the above
exclusions or limitations may not 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.

<p>In the USA FOR THE NEAREST SERVICE CENTER 1-800-526-6610 Regional Offices</p>			
<p>New Jersey 50 Meadowlands Pkwy – 2A4 Secaucus, NJ 07094 201-348-7975</p>	<p>Illinois 1713 N. Randall – E1-E1 Elgin, IL 60123 847-468-5270</p>	<p>Georgia 1225 Northbrook Pkwy Suwanee, GA 30093 770-338-6855</p>	<p>California 3330 Cahuenga Blvd West Los Angeles, CA 90068 323-436-3505</p>
<p>In Puerto Rico For service call 787-750-5135</p>			

(for Canada)

Panasonic Canada Inc.
Broadcast & Television Systems Division
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 must be performed in order to maintain warranty coverage.

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 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 500 hrs. Whichever comes first	1 year or 500 hrs. Whichever comes first
Maintenance Items	90 days	90 days
Colour Camera CCD Imaging Block	2 years	1 year
LCD/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
* 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	90 Days or 500 hrs. Whichever comes first	90 Days or 500 hrs. Whichever comes first.
Plasma 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. (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 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'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 _____

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Panasonic Broadcast & Television Systems Company

Unit of Panasonic Corporation of North America

Executive Office :

One Panasonic Way 4E-7, Secaucus, NJ 07094 (201) 348-7000

EASTERN ZONE : One Panasonic Way 4E-7 Secaucus, NJ 07094 (201) 348-7621

Mid-Atlantic/New England : One Panasonic Way 4E-7 Secaucus, NJ 07094 (201) 348-7621

Southeast Region : 1225 Northbrook Parkway, Ste 1-160 Suwanee GA 30024 (770)338-6835

Central Region : 1707 N Randall Road E1-C-1, Elgin, IL 60123 (847)468-5200

WESTERN ZONE : 3330 Cahuenga Blvd W., Los Angeles, CA 90068 (323) 436-3500

Dallas Region : 6226 Abington Way, Houston, TX 77008 (713) 802-2726

No. CA/Northwest Region : 5870 Stone Ridge, #3, Pleasanton, CA (925) 416-5108

Government Marketing Department : 52 West Gude Drive, Rockville, MD 20850 (301) 738-3840

Panasonic Canada Inc.

5770 Ambler Drive

Mississauga, Ontario

L4W 2T3

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