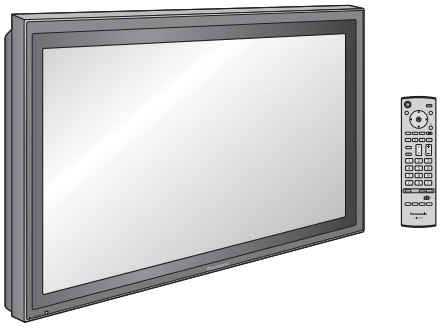
Panasonic



Operating Instructions
Progressive Wide Plasma Display

Model No. **TH-37PWD8WK**
TH-37PWD8WS
TH-42PWD8WK
TH-42PWD8WS

High Definition Plasma Display

Model No. **TH-42PHD8WK**
TH-42PHD8WS
TH-50PHD8WK
TH-50PHD8WS

The illustration shown is an image.

Please read these instructions before operating your set and retain them for future reference.

English

TQBC2019

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 also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site *http://www.panasonic.co.jp/global/*

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Important Safety Notice

WARNING

1) **To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.**
   Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)
   No naked flame sources, such as lighted candles, should be placed on / above the set.
2) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
3) Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-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 earthing plug.
4) To prevent electric shock, ensure the earthing pin on the AC cord power plug is securely connected.

CAUTION

This appliance is intended for use in environments which are relatively free of electromagnetic fields.
Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the picture and sound to wobble or cause interference such as noise to appear.
To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.

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.

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 4:3 mode.

Safety Precautions

WARNING

■ Setup

<u>This Plasma Display is for use only with the following optional accessories.</u> 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-37PWD8WK),
  TY-SP37P8W-S (TH-37PWD8WS),
  TY-SP42P8W-K (TH-42PWD8WK, TH-42PHD8WK),
  TY-SP42P8W-S (TH-42PWD8WS, TH-42PHD8WS),
  TY-SP50P8W-K (TH-50PHD8WK),
  TY-SP50P8W-S (TH-50PHD8WS)
- Pedestal TY-ST07-K (TH-37PWD8WK, TH-42PWD8WK, TH-42PHD8WK, TH-50PHD8WK),
  TY-ST08-K (TH-37PWD8WK, TH-42PWD8WK, TH-42PHD8WK, TH-50PHD8WK)
  TY-ST08-S
  (TH-37PWD8WS, TH-42PWD8WS,TH-42PHD8WS, TH-50PHD8WS)
- Wall stand..... TY-ST42PW1
- Mobile stand..... TY-ST42PF3 (except TH-37PWD8WK/S)
- Wall-hanging bracket (vertical)..... TY-WK42PV7,
  TY-WK37PV3 (TH-37PWD8WK/S)
- Wall-hanging bracket (angled) TY-WK42PR7
- Wall-hanging bracket (drawer type) ..... TY-WK42DR1 (except TH-37PWD8WK/S)
- Ceiling-hanging bracket TY-CE42PS7
- BNC Component Video Terminal Board..... TY-42TM6A
- BNC Composite Video Terminal Board TY-42TM6B
- SCART Terminal Board TY-FB8SC
- 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
- U/V Tuner Board for Asia TY-FB7TA
  (Hong Kong, Malaysia and Singapore only)
- SDI Terminal Board TY-FB7SD
- HD-SDI Terminal Board..... TY-FB7HD
- HDMI Terminal Board..... TY-FB8HM
- Wireless Presentation Board..... TY-FB7WPE
- Touch Panel TY-TP42P8-S (TH-42PWD8WK/S, TH-42PHD8WK/S),
  TY-TP50P8-S (TH-50PHD8WK/S)

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

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 is 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 your local Panasonic dealer.

For sufficient ventilation;
If using the pedestal (optional accessory) for the Plasma Display, leave a space of at least 10 cm at the top, left and right, at least 5 cm at the bottom, and at least 7 cm at the rear. If using some other setting-up method, leave a space of at least 10 cm at the top, bottom, left and right, and at least 6 cm at the rear.

■ When using the Plasma Display

The Plasma Display is designed to operate on 220 - 240 V AC, 50/60 Hz.

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.

Do not stick any foreign objects into the Plasma Display.
- Do not insert any metal or flammable objects into the ventilations holes or drop them onto the Plasma Display, as doing so can cause fire or electric shock.

Do not remove the cover or modify it in any way.
- High voltages which can cause severe electric shocks are present inside the Plasma Display. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

Securely insert the power supply 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 is loose, they shall not be used.

Do not handle the power supply plug with wet hands.
- Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.
- Do not damage the cable, make any modifications to it, place heavy objects on top of it, heat it, place it near any hot objects, twist it, bend it excessively or pull it. To do so may cause fire and electric shock. If the power cable is damaged, have it repaired at your local Panasonic dealer.

If the Plasma Display is not going to be used for any prolonged length of time, unplug the power supply plug 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 odour starts to come out from the Plasma Display, immediately unplug the power supply plug from the wall outlet.
- If you continue to use the Plasma Display in this condition, fire or electric shock could result. After checking that the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing the Plasma Display yourself is extremely dangerous, and shall never be done.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damages, disconnect the power supply plug immediately.
- A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.

⚠ CAUTION

■ When using the Plasma Display

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

- Heated air comes out from the ventilation holes at the top of Plasma Display will be hot. Do not bring your hands or face, or objects which cannot withstand heat, close to this port, otherwise burns or deformation could result.

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

- If the Plasma Display is moved while some of the cables are still connected, the cables may become damaged, and fire or electric shock could result.

Disconnect the power supply plug from the wall socket 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 becoming dusty.

- If dust built up on the power cord plug, the resultant humidity can damage the insulation, which could result in fire. Pull the power cord plug out from the wall outlet and wipe the mains lead 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.

Cleaning and 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.

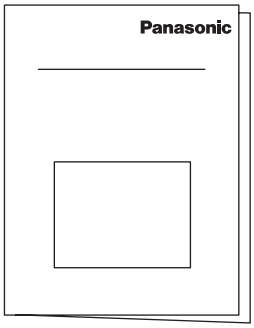
- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface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

Check that you have the accessories and items shown ☑

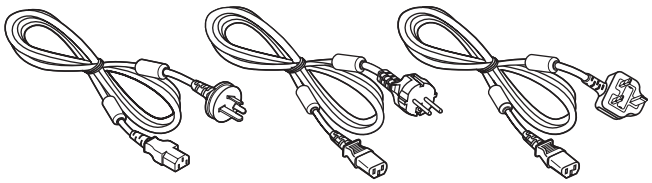
☐ Operating Instruction book



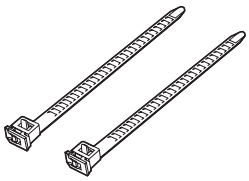
☐ Remote Control Transmitter
EUR7636070R

☐ Batteries for the Remote Control Transmitter
(2 × R6 (UM3) Size)

☐ Power supply cord



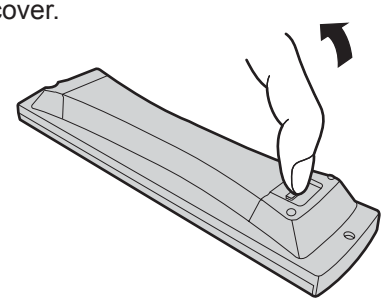
☐ Fixing bands × 2



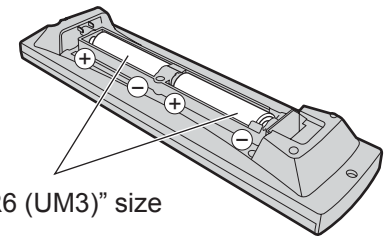
Remote Control Batteries

Requires two R6 batteries.

1. Turn the transmitter face down. Press and slide off the battery cover.

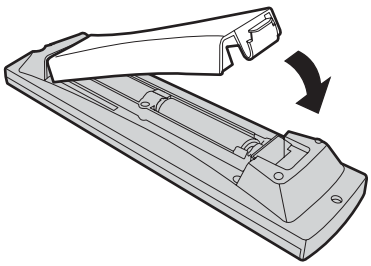


2. Install the batteries as shown in the battery compartment. (Polarity + or – must match the markings in the compartment.)



"R6 (UM3)" size

3. Replace the cover and slide in reverse until the lock snaps.



Helpful Hint:

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

⚠ Precaution on battery use

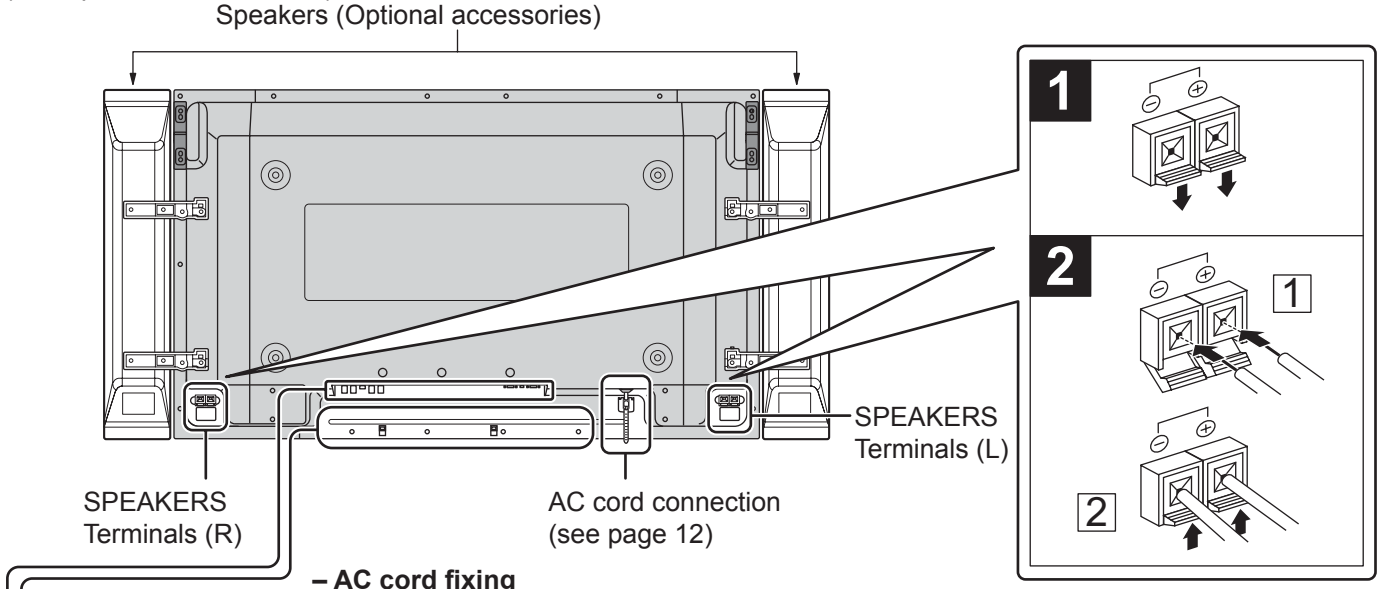
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.
Disposal of batteries should be in an environment-friendly manner.

Observe the following precaution:

1. Batteries shall 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 remote control acts sporadically or stops operating the Plasma Display set.

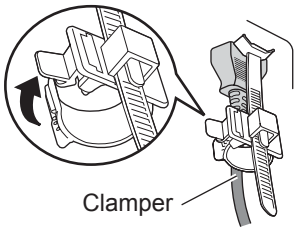
Connections

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-42PWD8WK)

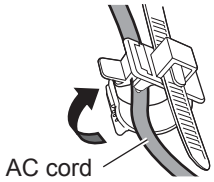


– AC cord fixing

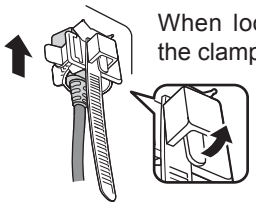
1. Open the clamper.



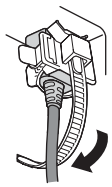
2. Insert the AC cord and close the clamper securely.



3. Slide up the clamper and fix the AC cord plug securely.



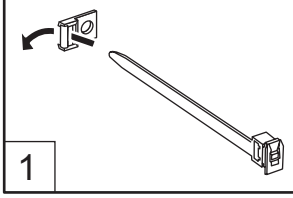
4. Insert the point of the fixed clamper into the small hole on the lower right of the back cover as necessary.



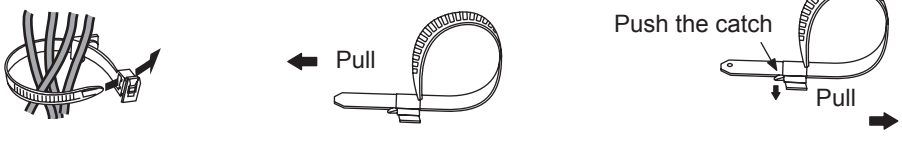
Note: The power plug in the illustration may not be the type fitted to your set.

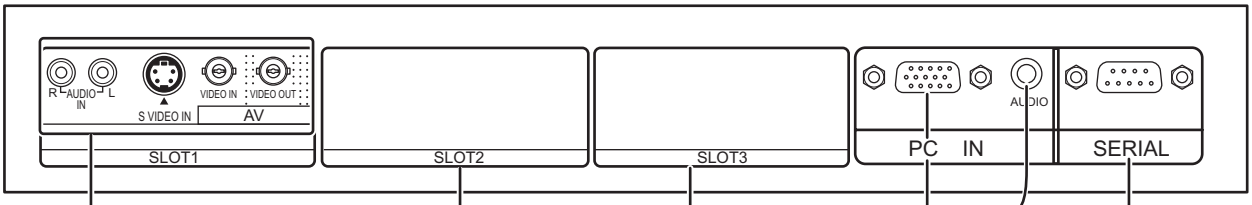
– Cable fixing bands Secure any excess cables with bands as required.

Pass the attached cable fixing band through the clip as shown in the figure.



To secure cables connected to Terminals, wrap the cable fixing band around them then pass the pointed end through the locking block, as shown in the figure.
While ensuring there is sufficient slack in cables to minimize stress (especially in the power cord), firmly bind all cables with the supplied fixing band.





AV Terminals (see page 11)

Optional Terminal Board Insert Slot (covered)

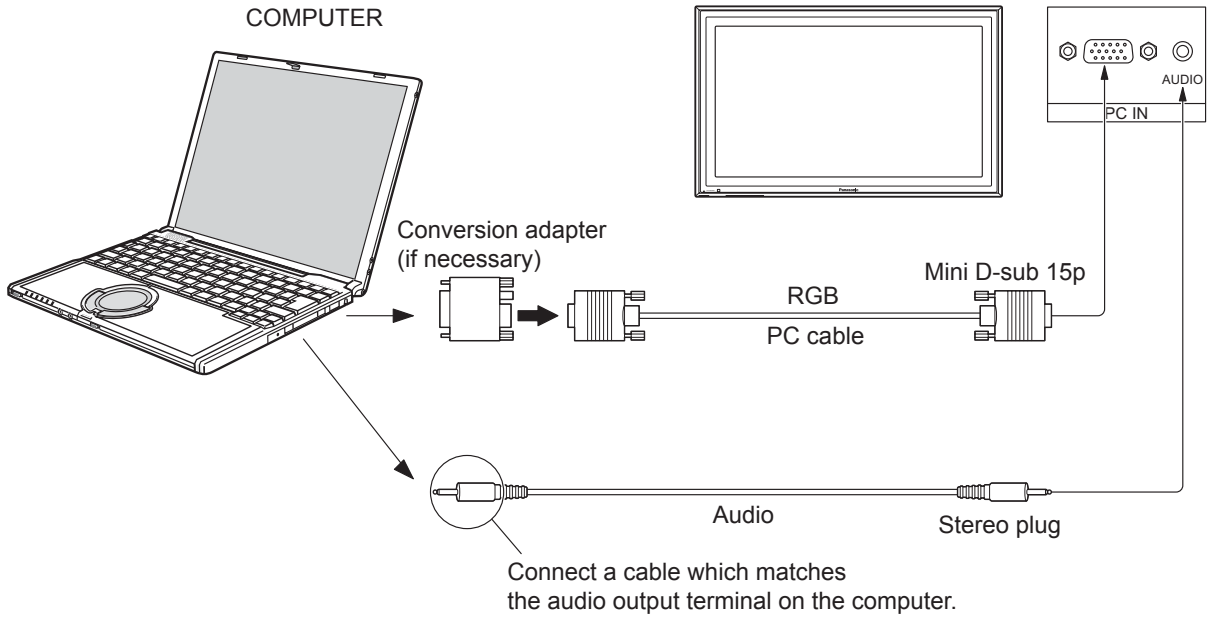
Optional Terminal Board Insert Slot (covered)

From EXTERNAL monitor terminal on Computer (see page 9)

From SERIAL Terminal on Computer (see page 10)

Notes:
- At factory shipment, Terminal board is installed in SLOT 1 only.
- TH-37PWD8WK/S have two slots only.

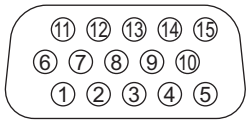
PC Input Terminals connection



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-37PWD8WK/S, TH-42PWD8WK/S), 768 × 768 dots (TH-42PHD8WK/S), 1,024 × 768 dots (TH-50PHD8WK/S) when the aspect mode is set to “4:3”, and 852 × 480 dots (TH-37PWD8WK/S, TH-42PWD8WK/S), 1,024 × 768 dots (TH-42PHD8WK/S), 1,366 × 768 dots (TH-50PHD8WK/S) when the aspect mode is set to “16:9”. 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.

Signal Names for Mini D-sub 15P Connector

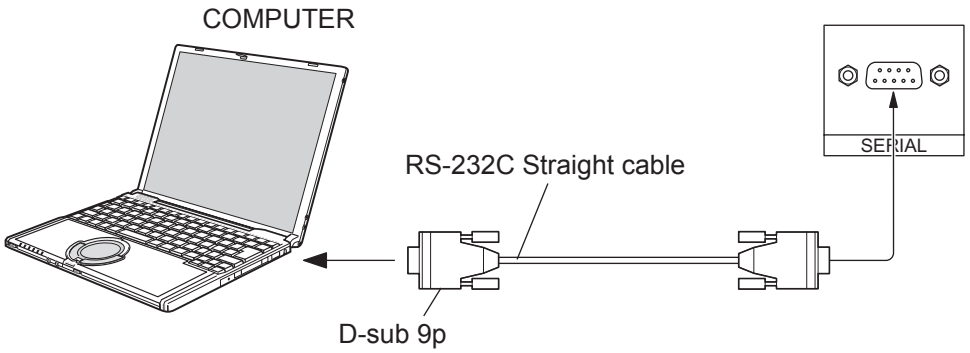


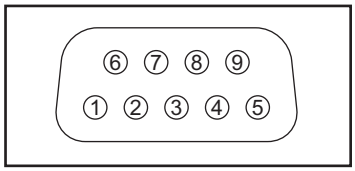
Pin Layout for PC Input Terminal

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

SERIAL Terminals connection

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





Pin layout for RS-232C

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.

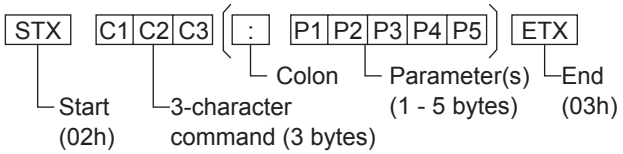
The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use 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 ⑧	Shorted
① • ⑨	NC

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



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

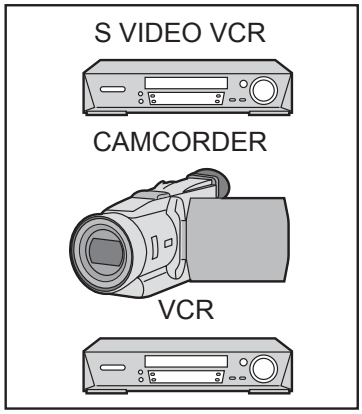
Command

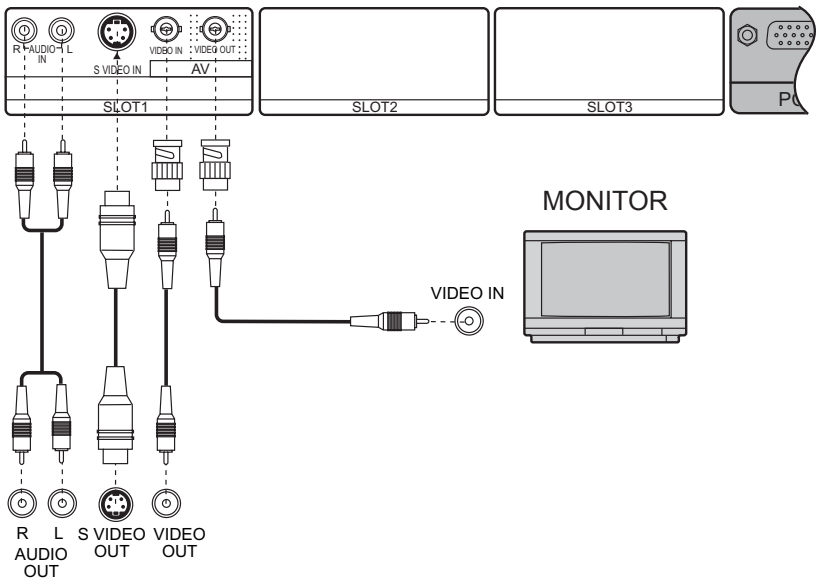
Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio mute OFF
	1	Audio mute ON
IMS	None	Input select (toggle)
	SL1	Slot1 input
	SL2	Slot2 input
	SL3	Slot3 input
	PC1	PC input
DAM	None	Screen mode select (toggle)
	NORM	4 : 3
	ZOOM	Zoom
	FULL	16 : 9
	JUST	Just
	SELF	Panasonic Auto

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

AV connection

Example of input signal source



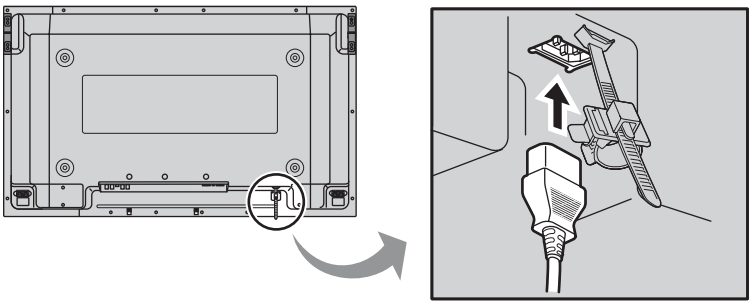


Note:
Additional equipment, cables and adapter plugs shown are not supplied with this set.

Power On / Off

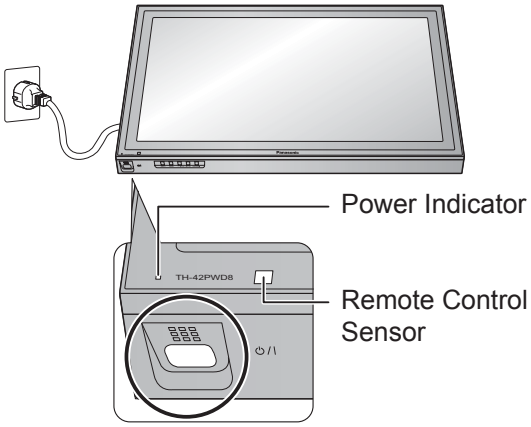
Connecting the AC cord plug to the Plasma Display.

Fix the AC cord plug securely to the Plasma Display with the clamper. (see page 8)



Connecting the plug to the Wall Outlet

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



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

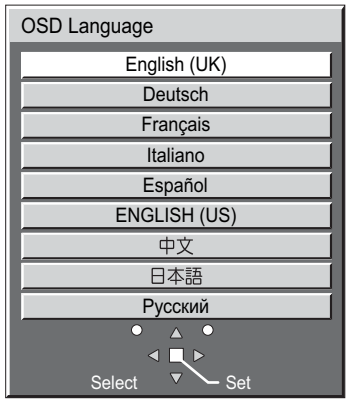
Power Indicator: Green

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

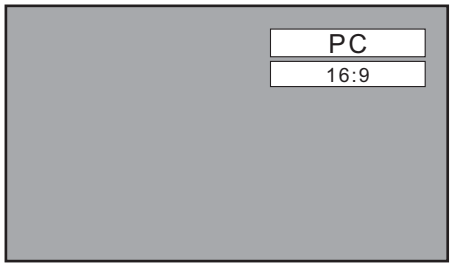
When the Power is turned on for the first time, the Language selection screen is displayed.

From the second time on, language selection can be done from the setup menu. (see page 13)

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



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



OFF

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

Power Indicator: Red (standby)

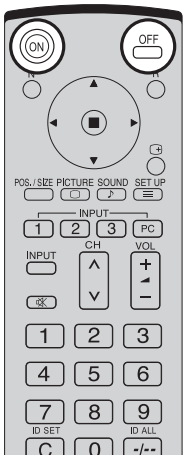
ON

Press the 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.

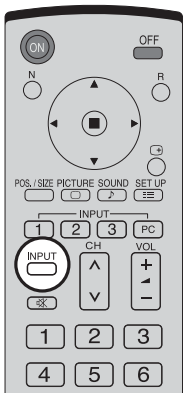
Note:
During operation of the power management function, the power indicator turns orange in the power off state.



Initial selections

Selecting the input signal

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



INPUT

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

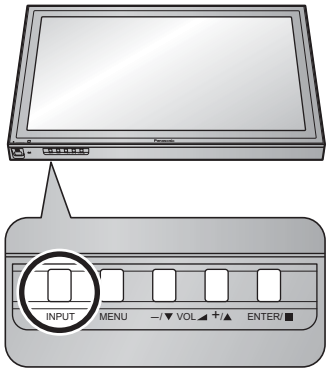
Input signals will change as follows:

• TH-37PWD8WK/S

→ INPUT1 → INPUT2 → PC IN

• TH-42PWD8WK/S, TH-42PHD8WK/S, TH-50PHD8WK/S

→ INPUT1 → INPUT2 → INPUT3 → PC IN



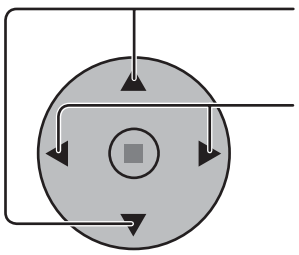
Notes:

- 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 35)
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.

Selecting the On-Screen Menu Language

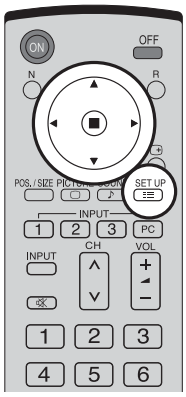
SET UP

Press to display the Setup menu.



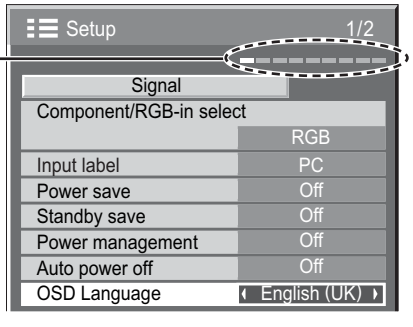
Press to select the OSD Language.

Press to select your preferred language.



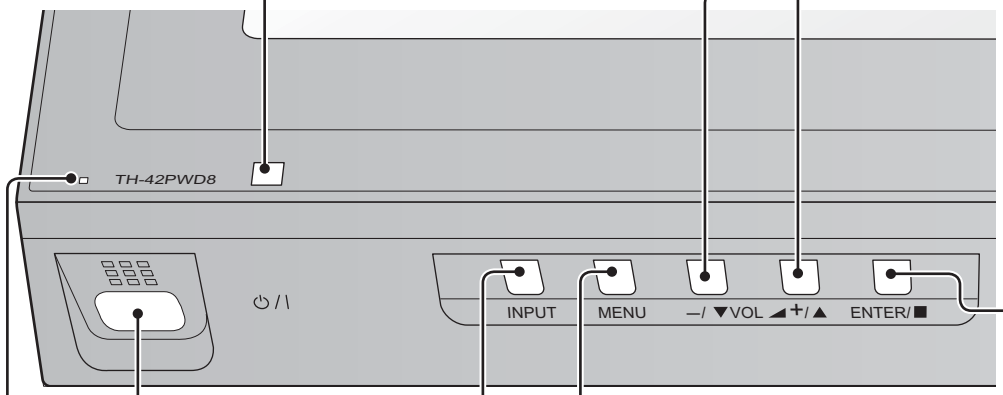
■ Selectable languages

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



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, 18)

Main Power On / Off Switch

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

Normal Viewing → Picture → Setup → Sound ← Pos. /Size ←

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.)

INPUT button
(INPUT1, INPUT2, INPUT3 and PC IN selection)
(see page 13)

N button (see page 19, 22, 23, 24)

POS. / SIZE button (see page 19)

PICTURE button (see page 22)

INPUT button
(INPUT1, INPUT2, INPUT3 and PC IN selection)
Press to select INPUT1, INPUT2, INPUT3 and PC IN input SLOTS sequentially. (see page 13)

Sound mute On / Off (see page 24)

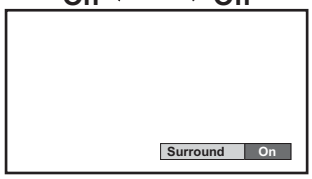
Numeric buttons (see page 34, 40)

ASPECT button
Press to adjust the aspect. (see page 18)

MULTI Window buttons (see page 20)

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 Sound Mode (Normal, 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 12). Press ON to turn the Plasma Display On, from Standby mode. Press OFF to turn the Plasma Display Off to Standby mode.

POSITION buttons

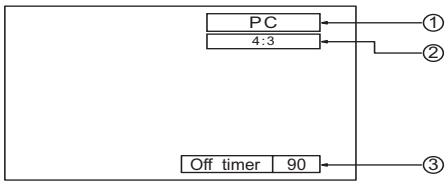
ACTION button
Press to make selections.

SOUND button
(see page 24)

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 18)
③ Off timer
The off timer indicator is displayed only when the off timer has been set.

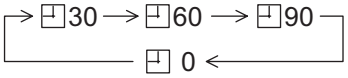
SET UP button (see page 16, 17)

DIRECT INPUT buttons
Press the INPUT “1”, “2”, “3” or “PC” input mode selection button to select the PC 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 42), this function is not the perfect solution to after-image.

Channel Adjustment
You can use this button when U/V Tuner Board for Asia is installed (optional accessories). Refer to each Board's Operating Instruction for detail.

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.

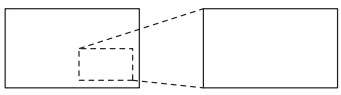


When three minutes remain, “OFF TIMER 3” will flash.
The off timer is cancelled if a power interruption occurs.

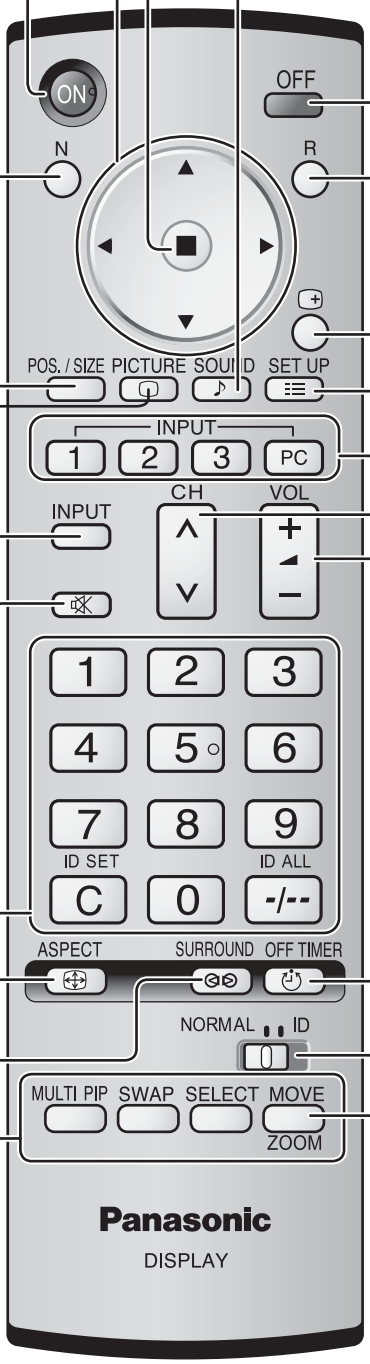
Remote ID lock (see page 34)

Digital Zoom (see page 25)

Press to access Digital Zoom.

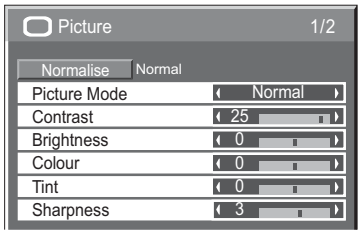


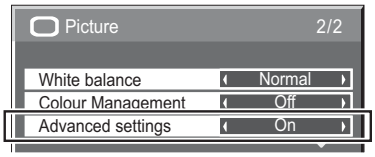
This displays an enlargement of the designated part of the displayed image.

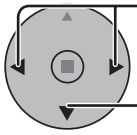


On-Screen Menu Displays

To Picture adjust menu
(see page 22)



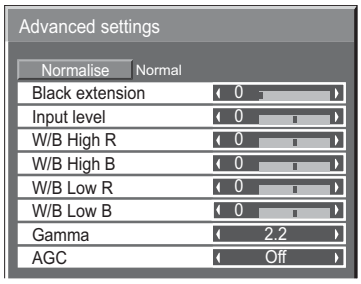




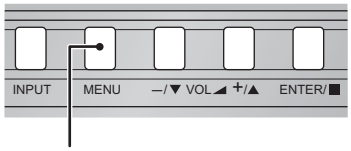
Press to select "On".

Press to enter Advanced settings.

To Advanced settings
(see page 22, 23)

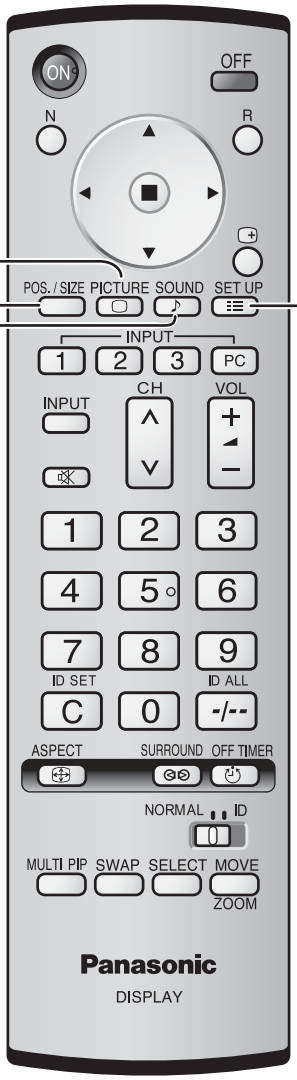


The MENU button on the unit can also be pressed.



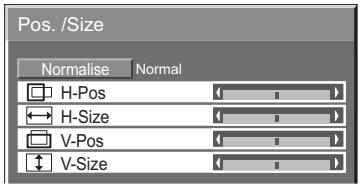
Each time the MENU button is pressed, the menu screen will switch.

Normal Viewing → Picture → Setup → Sound ← Pos. /Size ←

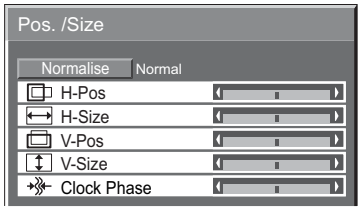


To Pos./Size adjust menu
(see page 19)

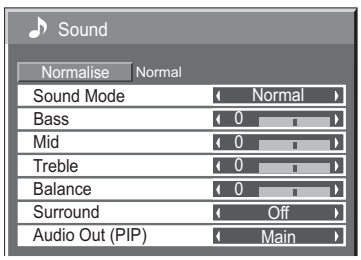
During "AV(S Video)", "Component" and "DVI" input signal.

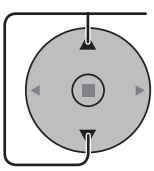


During "RGB / PC" input signal.



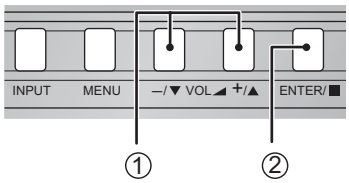
To Sound adjust menu
(see page 24)



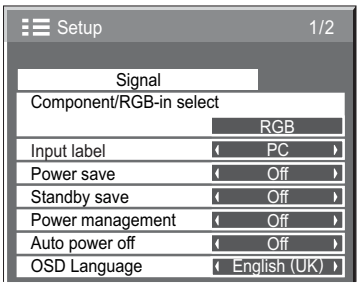


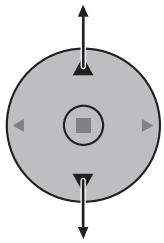
① Press to select.

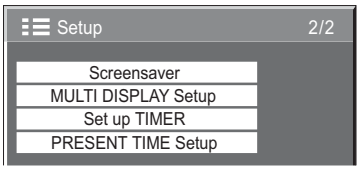
[from the unit]

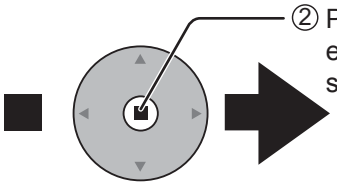


① Press to select.
② Press to access each adjust screen.

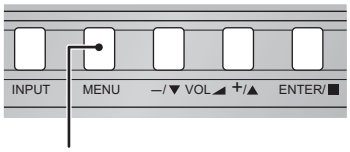




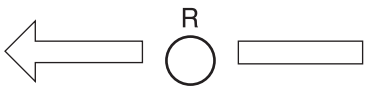




[from the unit]

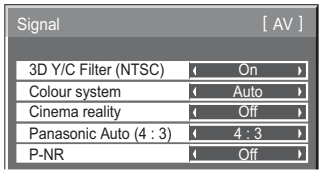


Press to return to next menu screen.

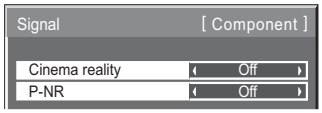


Press the R button to return to previous menu screen.

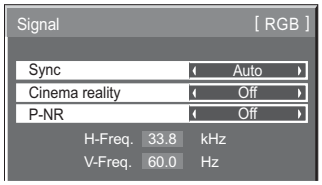
To Signal screen for AV (S Video) (see page 35, 36)



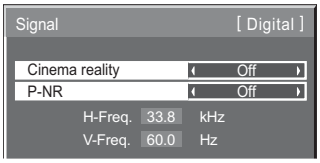
To Signal screen for Component (see page 36)



To Signal screen for RGB (see page 36, 37)

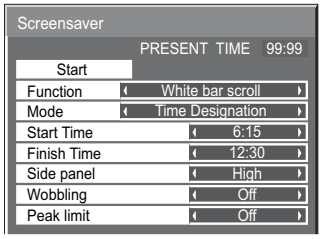


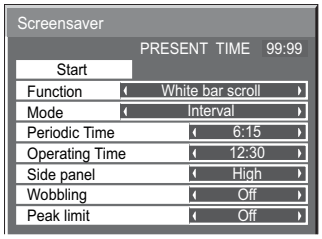
To Signal screen for DVI (see page 36, 37)



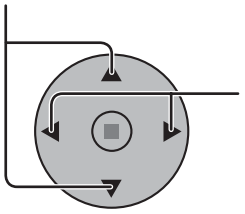
Note : "Signal" setup menu displays different setting condition for each input signals. (see page 13)

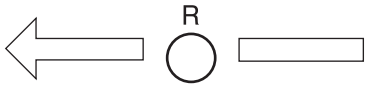
To setup Screensaver (see page 28-30)



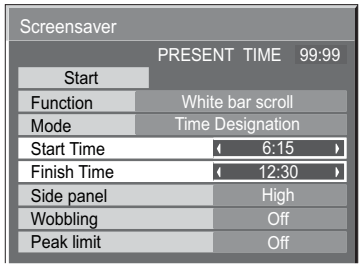


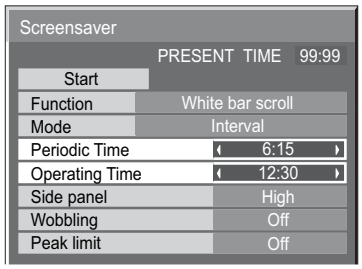
Press to select Start Time / Finish Time (When Time Designation is selected).
Press to select Periodic Time / Operating Time (When Interval is selected).



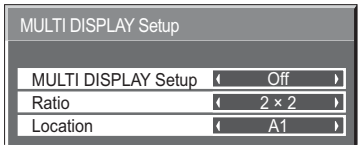


Press the R button to return to "Setup" menu.

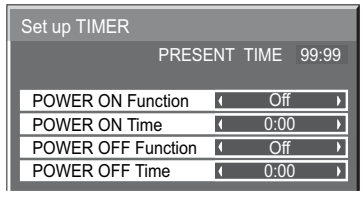




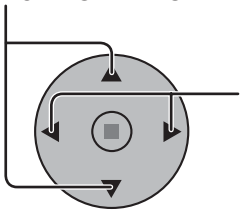
To setup Multidisplay screen (see page 32)

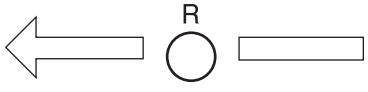


To Set up Timer selection screen (see page 26, 27)

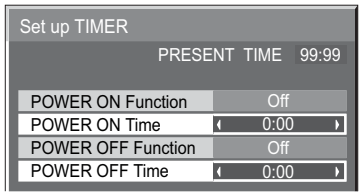


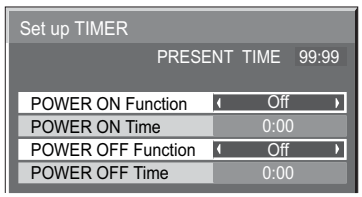
Press to select POWER ON Time / POWER OFF Time.



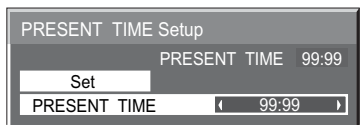


Press the R button to return to "Setup" menu.



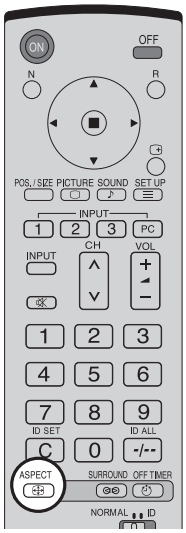


To PRESENT TIME Setup (see page 26)



ASPECT Controls

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

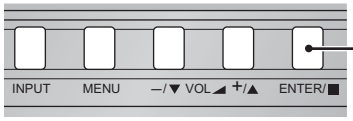


ASPECT

Press repeatedly to move through the aspect options:

4 : 3 → Zoom → 16 : 9 → Just → Panasonic Auto →

[from the unit]



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

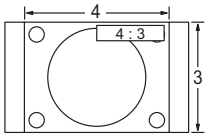
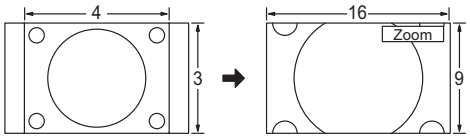
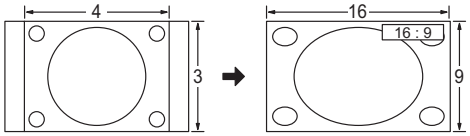
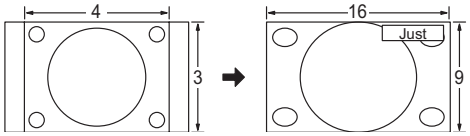
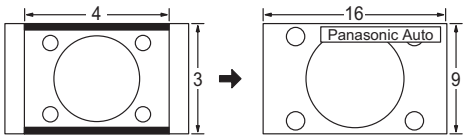
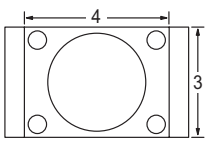
[During MULTI PIP Operations]

• Picture and Picture, Picture in Picture : 4 : 3 → 16 : 9

• Others : Aspect switching is not possible.

Notes:

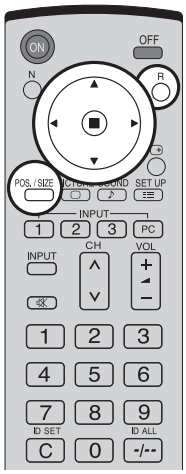
- For PC signal input, the mode switches between “4:3”, “Zoom” and “16:9” only.
- For a 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p signal input, the mode is set to “16:9” mode, and switching is not possible.
- Panasonic Auto can be selected only during Video signal input.
- The aspect mode is memorized separately for each input terminal.

Mode	Picture	Explanation
4 : 3		4:3 will display a 4:3 picture at its standard 4:3 size.
Zoom		Zoom mode magnifies the central section of the picture.
16 : 9		16:9 will display the picture at its maximum size but with slight elongation.
Just		Just mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic Auto	 For an elongated image → Image is expanded  → Changes in accordance with the Panasonic Auto mode setting (see page 36). For a 4:3 image	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. **Notes:** • Panasonic Auto mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to 4:3. • If adjusting the Picture V-Pos/V-Size in Panasonic Auto with 16:9 mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

Note:

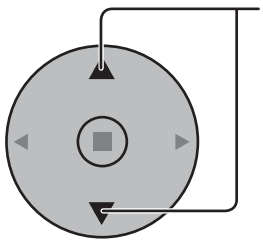
Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent after-image to remain on the Plasma Display Panel.

Adjusting Pos. / Size

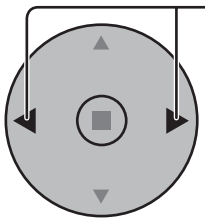


1 POS. / SIZE — Press to display the Pos. /Size menu.

2 Press to select H-Pos / H-Size / V-Pos / V-Size / Clock Phase.

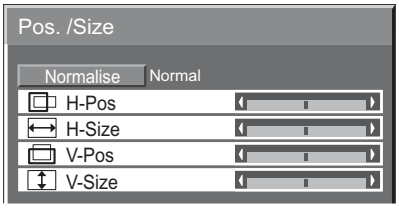


3 Press to adjust Pos. / Size.

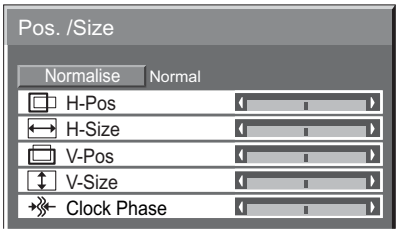


4 R — Press to exit from adjust mode.

During “AV(S Video)”, “Component” and “DVI” input signal.



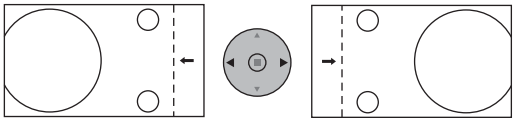
During “RGB / PC” input signal.



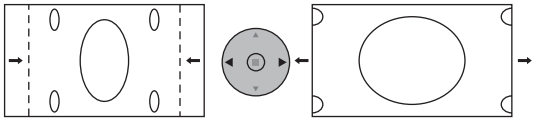
Notes:

- 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/DVI 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 Picture Pos./Size function.
- If adjusting the Picture V-Pos/V-Size in Panasonic Auto with 16:9 mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

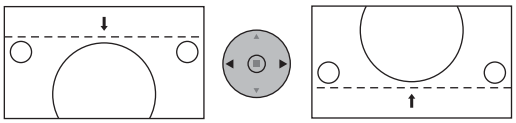
H-Pos Adjust the horizontal position.



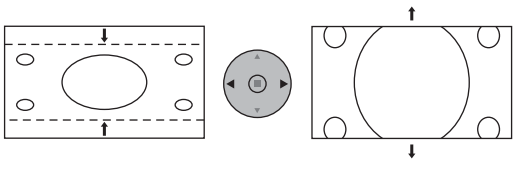
H-Size Adjust the horizontal size.



V-Pos Adjust the vertical position.



V-Size Adjust the vertical size.



Clock Phase (RGB/PC in mode) Eliminate the flickering and distortion.

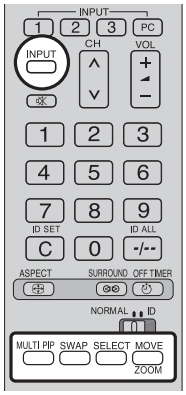
Helpful Hint (N / Normalise Normalisation)

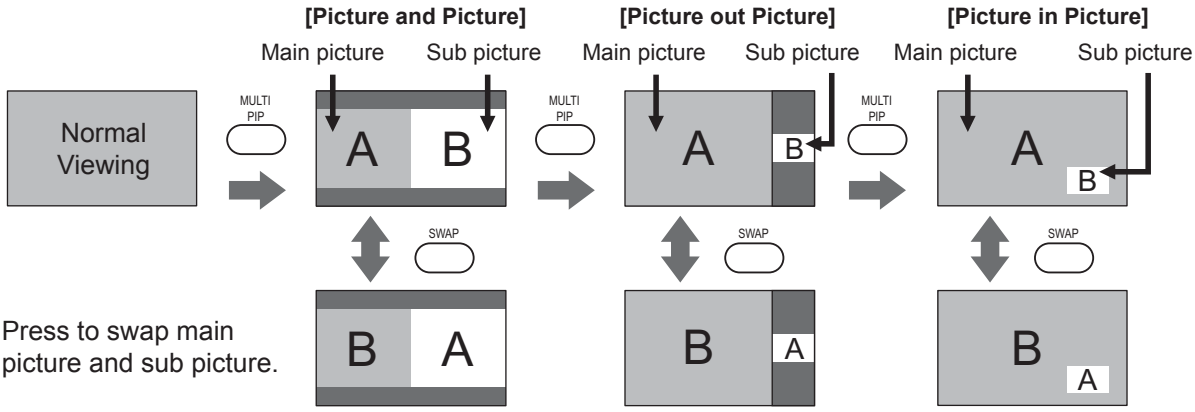
While the Pos. / Size display is active, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during “Normalise”, then all adjustment values are returned to the factory settings.

MULTI PIP

MULTI PIP

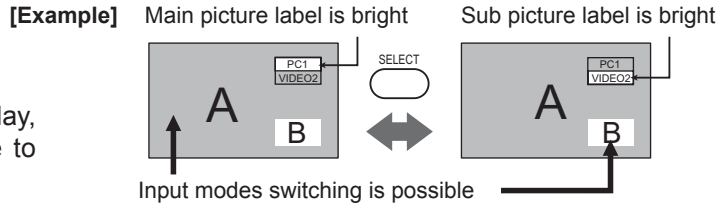
Press repeatedly.
Each time pressing this button main picture and sub picture will be displayed as follows below.





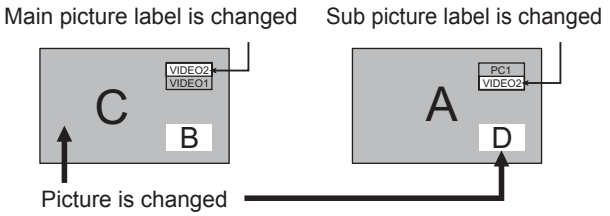
SWAP

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.

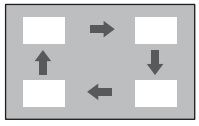


INPUT

Press to change input signal.

MOVE
ZOOM

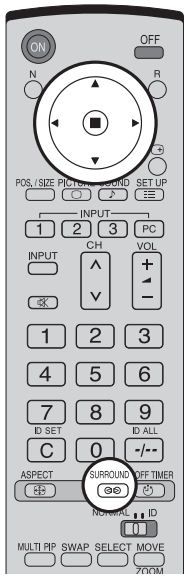
Press to move the sub picture.
Each time the location of the sub picture will be moved.



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 24).
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the 2-picture display mode.
- Due to the small dimensions of the sub pictures, these sub pictures cannot be shown in detail.
- Computer screen picture is displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.
- Following combinations of two analog signals cannot be displayed simultaneously;
  Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) - PC (RGB)

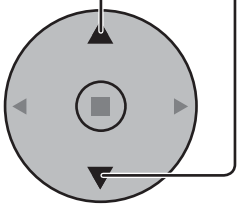
Advanced PIP



1 SET UP

Press to display the Setup menu.

2

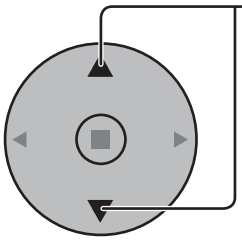


Press to select “OSD Language”.

3 SURROUND

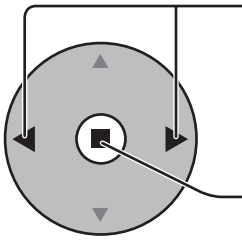
Press and hold until the Options menu is displayed.

4



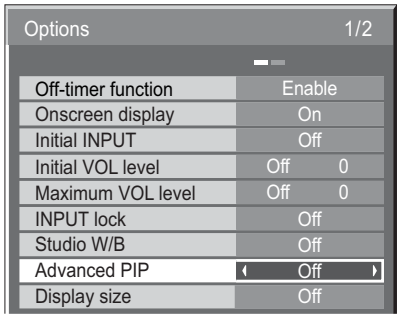
Press to select Advanced PIP.

5



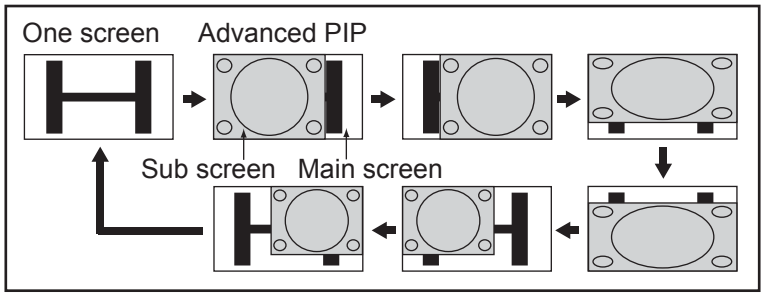
Press to adjust the menu.
Off : Sets normal two screen display mode (see page 20).
On : Sets Advanced PIP mode.

Press to confirm.



6 SET UP

Press to exit from Options menu.



Notes:

- Advanced PIP corresponding signal

Sub 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)

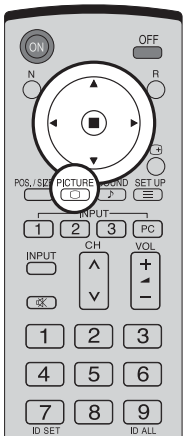
Main screen
640x480@60Hz, 852x480@60Hz, 1024x768@60Hz, 1366x768@60Hz (RGB, DVI, HDMI)
1280x768@60Hz (DVI)

- Sound output is from the picture which is selected in Audio OUT (PIP) (See page 24).
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the 2-picture display mode.
- Due to the small dimensions of the sub pictures, these sub pictures cannot be shown in detail.
- Computer screen picture is displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.
- Following combinations of two analog signals cannot be displayed simultaneously;
  Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) - PC (RGB)
- Refer to each board's operating instruction for DVI, SDI, HDMI's corresponding signals.

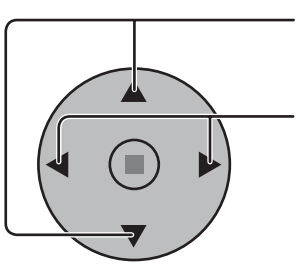
Picture Adjustments

1 PICTURE

Press to display the Picture menu.

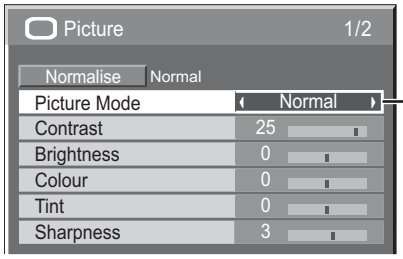


2 Select to adjust each item.



Press to select the menu to adjust.

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



Press "◄" or "►" button to switch between modes.

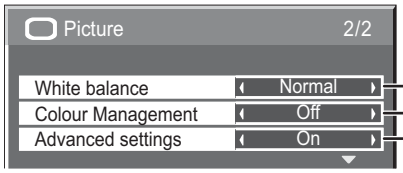
Normal ⟷ Cinema ⟷ Dynamic

Normal
For viewing in standard (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.

Dynamic
For viewing in brighter environments.
This menu selects higher than normal levels of Brightness and Contrast.

Cinema
Ideal for movies.

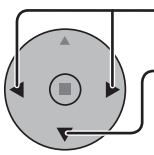
Note:
If you would like to change the picture and colour of the selected Picture menu to something else, adjust using the items in the Picture menu. (see next page)



Press "◄" or "►" button to switch between modes.

Normal ⟷ Cool ⟷ Warm

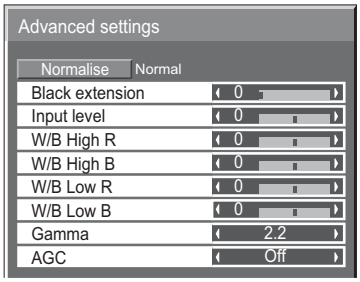
Colour Management On
Enables vivid colour adjustment automatically.



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.

Helpful Hint (N / Normalise Normalisation)

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 "Normalise", then all adjustment values are returned to the factory settings.

Item	Effect		Adjustments
Contrast	◀ Less	▶ More	Selects the proper brightness and density for the room.
Brightness	◀ Darker	▶ Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
Colour	◀ Less	▶ More	Adjusts colour saturation.
Tint	◀ Reddish	▶ Greenish	Adjusts for nice skin colour.
Sharpness	◀ Less	▶ More	Adjusts picture sharpness.

Notes:
- "Colour" and "Tint" settings cannot be adjusted for "RGB/PC" and "DVI" input signal.
- You can change the level of each function (Contrast, Brightness, Colour, Tint, Sharpness) for each Picture Mode.
- The setting details for normal, dynamic and cinema respectively are memorized separately for each input terminal.
- The "Tint" setting can be adjusted for NTSC signal only during "AV (S Video)" input signal.
- In Contrast, 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 DVI.)
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 ⟷ 2.0 ⟷ 2.2 ⟷ 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 (N / Normalise Normalisation)

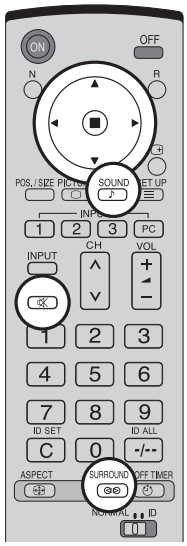
On the remote control unit, while the "Advanced settings" menu is displayed, if either the N button is pressed at any time or the ACTION (■) button is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Sound Adjustment

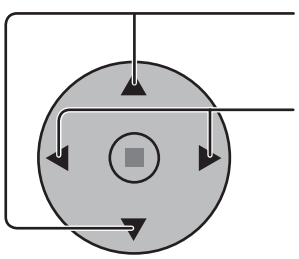
1

SOUND

Press to display the Sound menu.



2 Select to adjust each item.



Press to select the menu to adjust.

Select the desired level by listening to the sound.

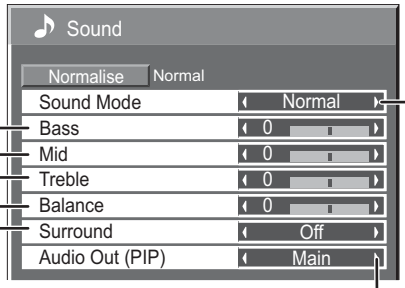
Bass
Adjusts low pitch sounds

Mid
Adjusts normal sounds

Treble
Adjusts high pitch sounds

Balance
Adjusts left and right volumes

Surround
Select On or Off



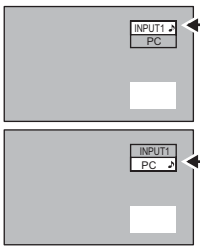
Normal — Emits the original sound.

Dynamic — Accentuates sharp sound.

Clear — Attenuates human voice.

Main — Selects Main picture sound.

Sub — Selects PIP frame sound.



(When Main picture sound is chosen.)

(When PIP frame sound is chosen.)

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 Sound Mode.

Helpful Hint (N / Normalise Normalisation)

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 “Normalise”, then all adjustment values are returned to the factory settings.

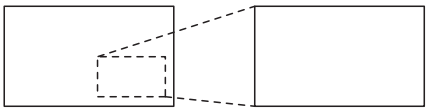
Mute

Useful when answering the phone or receiving unexpected visitors.

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

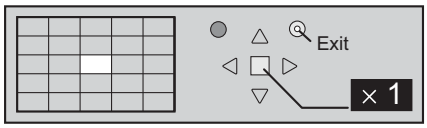
Digital Zoom

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



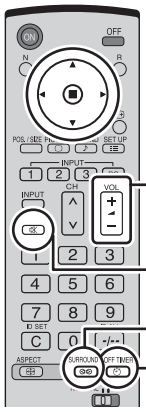
1 **Display the “Operation Guide”.**

MOVE
ZOOM
Press to access Digital Zoom.
The “Operation Guide” will be displayed.

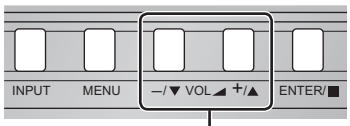


During Digital Zoom, only the following buttons can be operated.

[Remote control]

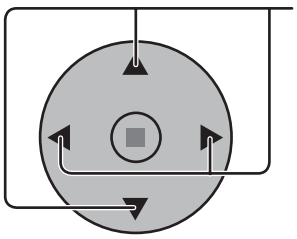


[Unit]



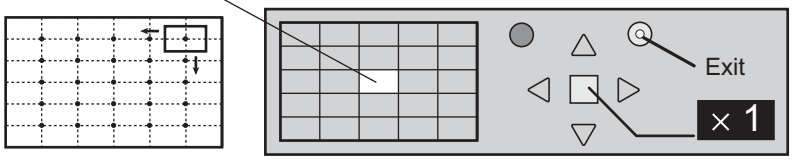
VOL button

2 **Select the area of the image to be enlarged.**

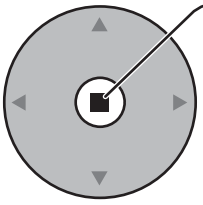


Press on the enlargement location to select.

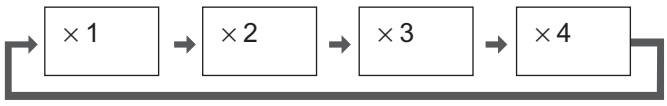
The cursor will move.



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).**

R

Press to exit from the Digital Zoom.

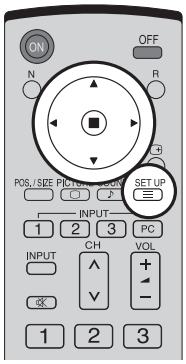
Notes:

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

PRESENT TIME Setup / Set up TIMER

The timer can switch the Plasma Display On or Off.

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

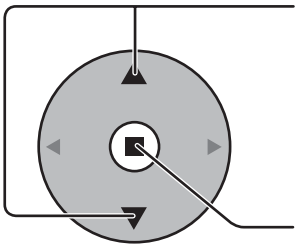


1

SET UP

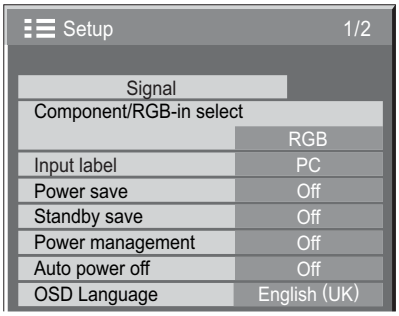
Press to display the Setup menu.

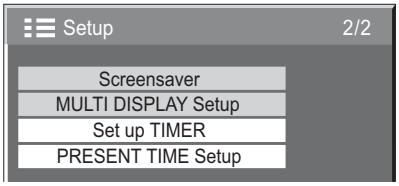
2



Press to select Set up TIMER or PRESENT TIME Setup.

Press to display the Set up TIMER screen or PRESENT TIME Setup screen.



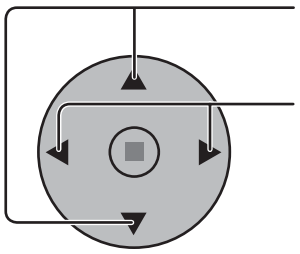


PRESENT TIME Setup

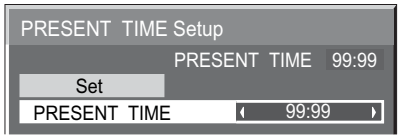
Display the PRESENT TIME Setup screen.

To setup PRESENT TIME, follow the procedure described below.

1



Press to select PRESENT TIME.

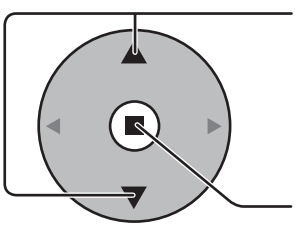


Press to setup PRESENT TIME.
► button: Forward
◄ button: Back

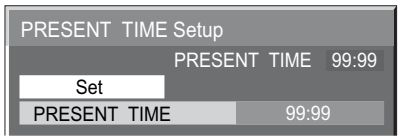
Notes:

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

2



Press to select Set.



Press to store PRESENT TIME Setup.

Note:

Set cannot be selected unless PRESENT TIME is set.

3

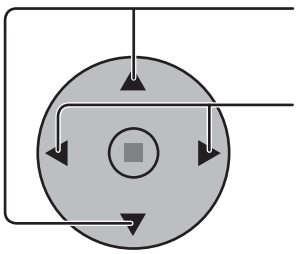
SET UP

Press to exit from PRESENT TIME Setup.

Set up TIMER

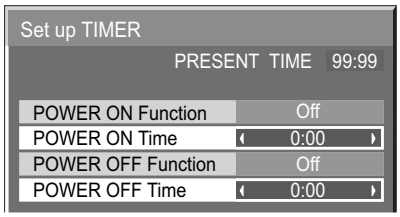
Display the Set up TIMER screen.

1



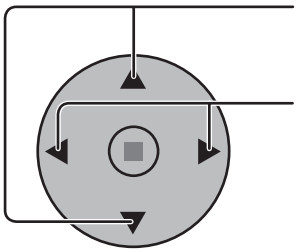
Press to select
POWER ON Time / POWER OFF Time.

Press to setup
POWER ON Time / POWER OFF Time.
► button: Forward
◄ button: Back



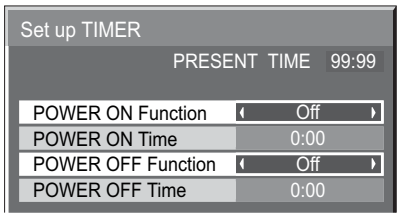
Notes:
- Pressing "◄" or "►" button once changes POWER ON Time / POWER OFF Time 1 minute.
- Pressing "◄" or "►" button continuously changes POWER ON Time / POWER OFF Time by 15 minutes.

2

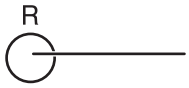


Press to select POWER ON Function/POWER OFF Function.

Press to select On.



3



Press twice to exit from Setup.

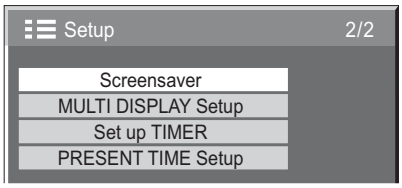
Note:
Timer function will not work unless "PRESENT TIME" is set.

Screensaver (For preventing after-images)

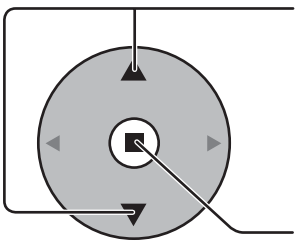
Do not display a still picture, especially in 4:3 mode, for any length of time.
If the display must remain on, a Screensaver should be used.

1 SET UP

Press to display the Setup menu.



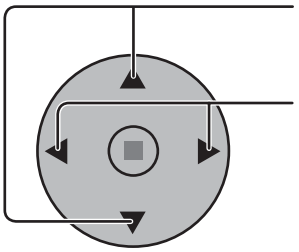
2



Press to select Screensaver.

Press to display Screensaver screen.

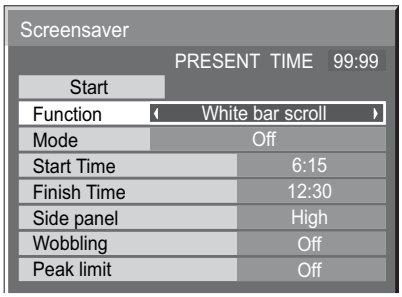
3 Reversal / Scroll selection



Press to select Function.

Press to select the desired function.

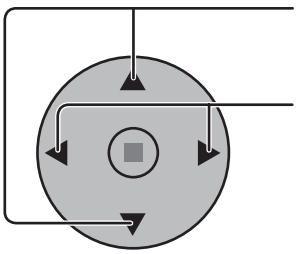
White bar scroll ⟷ Image Reversal



White bar scroll : The white bar will scroll from left to right.

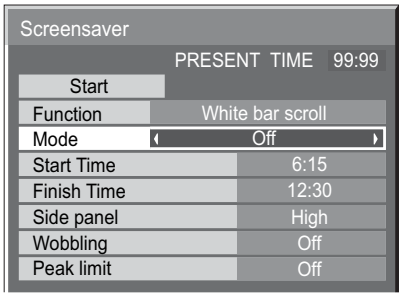
Image Reversal : Negative image will be displayed on the screen.

4 Mode selection



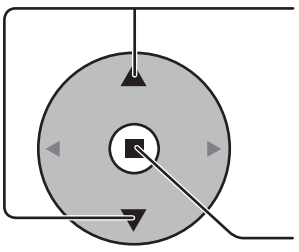
Press to select Mode.

Press to select each mode items.

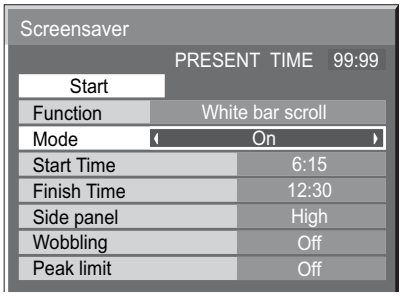


Off
↕
Interval : Operates when Periodic Time and Operating Time are setup and those times arrive.
↕
Time Designation : Operates when Start Time and Finish Time are setup and those times arrive.
↕
On : Operates when Start is selected and the ACTION (■) button is pressed.

5 Start setting



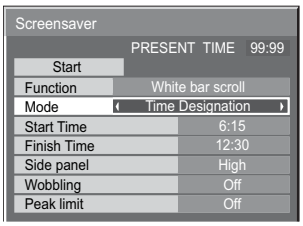
When the Mode is set to On, press to select Start.

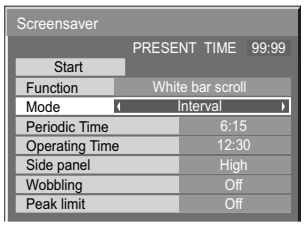


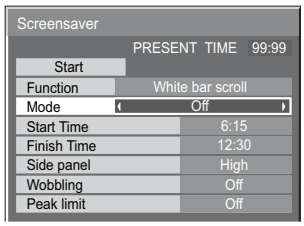
Press to start Screensaver.
The menu screen will disappear and the Screensaver will be activated. **To stop the Screensaver under On, press the R button.**

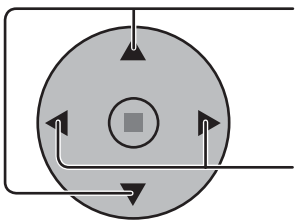
Setup of Screensaver Time

After selecting Time Designation 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”.)







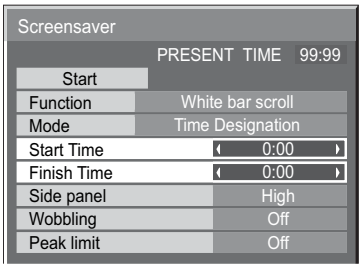


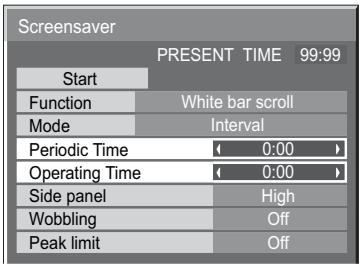
Press to select Start Time / Finish Time
(When Time Designation is selected).
Press to select Periodic Time / Operating Time
(When Interval is selected).

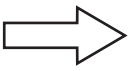
Press to setup.

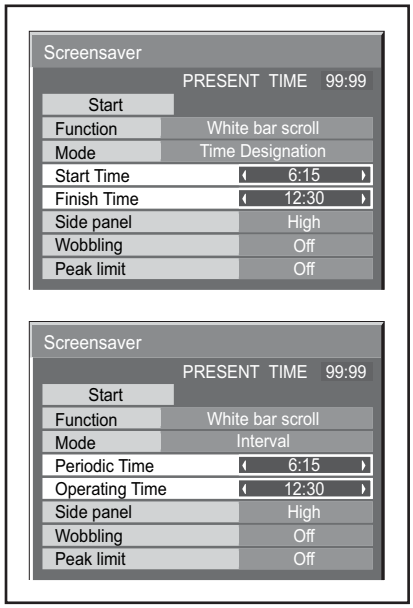
▶ button: Forward
◀ button: Back

Notes:
- Pressing “◀” or “▶” button once changes the Time 1 minute.
  [However, switching occurs every 15 minutes when Periodic Time is selected.]
- Pressing “◀” or “▶” button continuously changes the Time by 15 minutes.









Note: Timer function will not work unless “PRESENT TIME” is set.

Reduces screen after-image

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

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

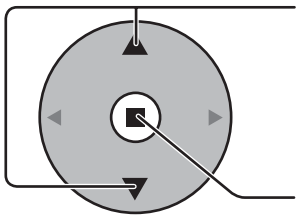
Peak limit: Suppresses image contrast (peak brightness).

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

1 SET UP

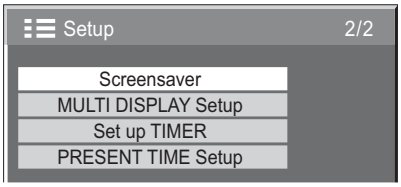
Press to display the Setup menu.

2

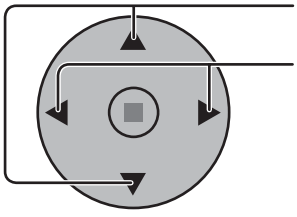


Press to select “Screensaver”.

Press to display Screensaver menu.

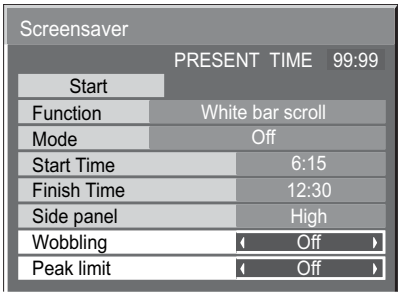


3



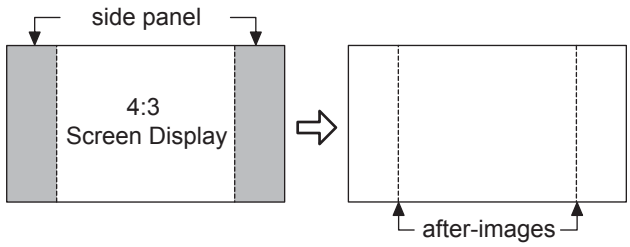
Press to select “Wobbling” or “Peak limit”.

Press to select “On” or “Off”.

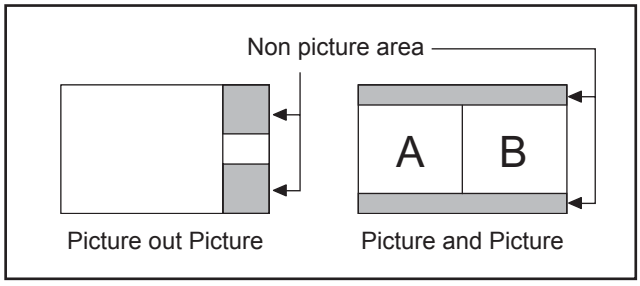


Side Panel Adjustment

Do not display a picture in 4:3 mode for an extended period, as this can cause an after-image to remain on the side panels either side of the display field.
To reduce the risk of such an after-image, illuminate the side panels.

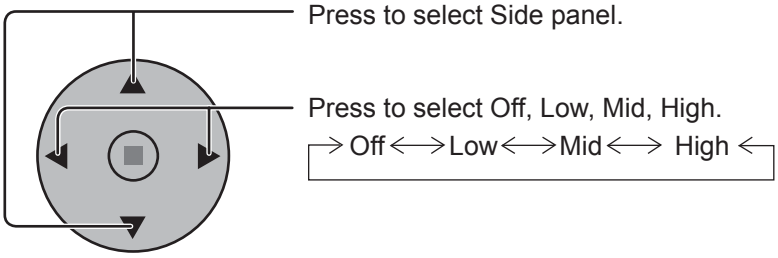


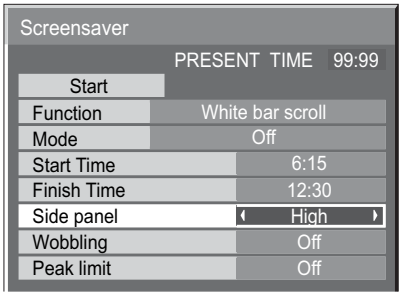
This function may be applicable to the non-picture area.



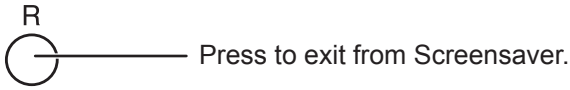
Display the Screensaver screen.
(Refer to the previous page, operation guide steps 1 and 2)

1





2



Notes:
- To reduce the occurrence of after-images, set the Side panel to High.
- The side panels may flash (alternate black / white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

Reduces power consumption

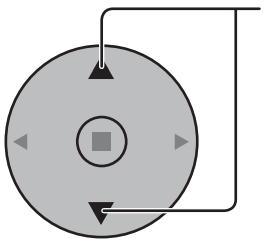
• Power save: When this function is turned On, luminous level of the Plasma Display is suppressed, so power consumption is reduced.

• Standby save: When this function is turned On, power consumption of the microcomputer is reduced during power supply standby (see page 12, 14-15), so standby power of the set is reduced.

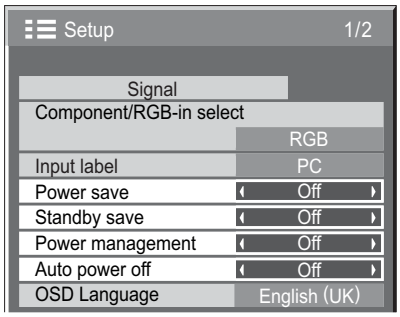
• Power management: The unit power supply is turned On or Off depending on whether or not there is a signal during PC input mode.
This function is enabled when it is turned On. (Only during input from PC (MiniD-sub) terminal)

• 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.

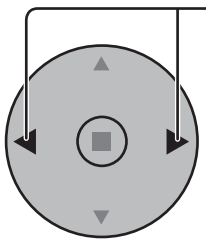
1



Press to select
“Power save”
“Standby save”
“Power management”
“Auto power off”.



2



Press to select “On” or “Off”.

On ⟷ Off

3

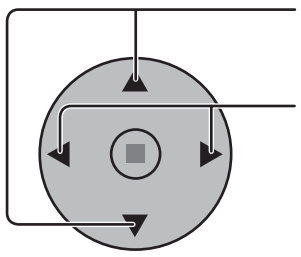
SET UP

Press to exit from Setup.

Note:
“Power management” and “Auto power off” are effective during normal viewing (one picture screen) only.

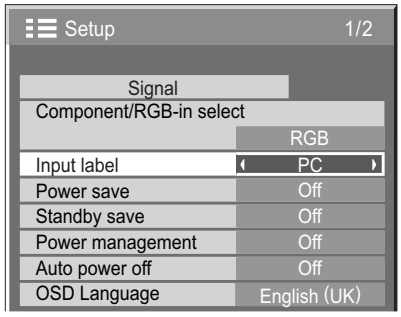
Customizing the Input labels

This function can change the label of the Input signal to be displayed.



Press to select Input label.

Press to change the Input label.



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

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

Setup for MULTI DISPLAY

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.

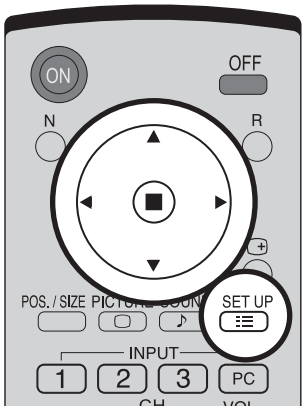
group of 4 (2 × 2 (F))

group of 9 (3 × 3 (F))

group of 16 (4 × 4 (F))

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

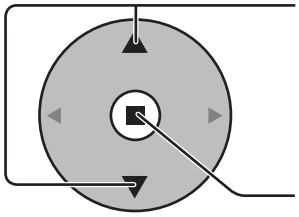
How to Setup MULTI DISPLAY



1 SET UP

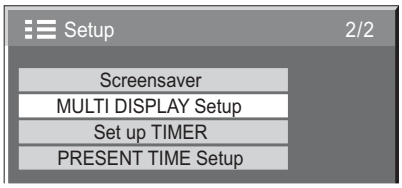
Press to display the Setup menu.

2

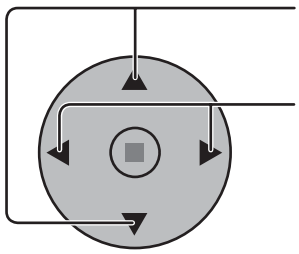


Press to select the MULTI DISPLAY Setup.

Press to display the “MULTI DISPLAY Setup” menu.

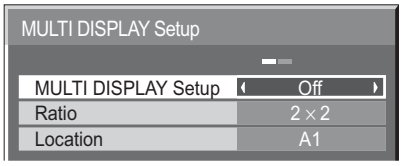


3



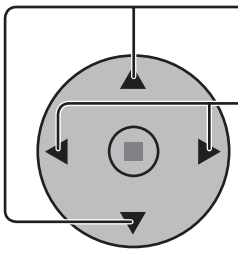
Press to select the MULTI DISPLAY Setup.

Press to select “On” or “Off”.



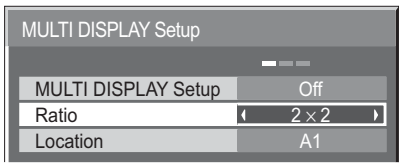
How to set the display location number for each Plasma Display

4

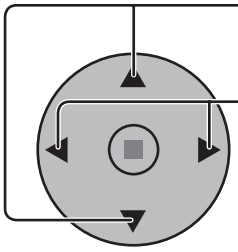


Press to select Ratio (2nd step).

Press to select “2 × 2”, “2 × 2 F”, “3 × 3”, “3 × 3F”, “4 × 4”, “4 × 4F”.

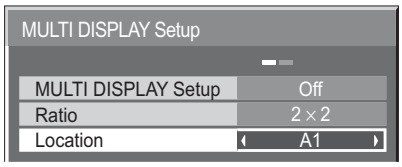


5



Press to select Location.

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



Display Number locations for each arrangement

(2 × 2 (F))

A1	A2
B1	B2

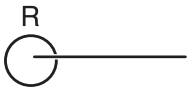
(3 × 3 (F))

A1	A2	A3
B1	B2	B3
C1	C2	C3

(4 × 4 (F))

A1	A2	A3	A4
B1	B2	B3	B4
C1	C2	C3	C4
D1	D2	D3	D4

6



Press twice to exit from Setup.

Option F for MULTI DISPLAY

Two options are selectable for MULTI DISPLAY.

• To hide joints between TVs.
(2 × 2, 3 × 3, 4 × 4)

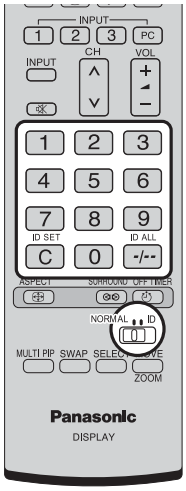
Suitable for moving image display.

• To show joints between TVs.
(2 × 2F, 3 × 3F, 4 × 4F)

Suitable for still image display.

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 NORMAL ID (00) to NORMAL ID (00) on the right side.

2 Press the ID SET C button on the remote control.

3 Press one of 1 - 9, 0 for the tens digit setting.

4 Press one of 1 - 9, 0 for the units digit setting.

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

ID remote control button operation

The operation is the same as normal remote control except for the VOL + − button.

ID Cancellation

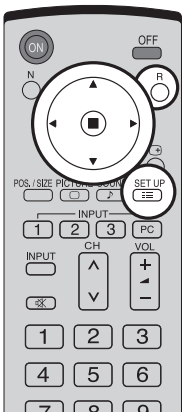
Press ID ALL -/-- button on remote control. (This has the same effect as pressing the ID SET C, 0, 0 buttons at the same time)

Notes:
- Set the Remote ID “On” to operate the ID remote control (see page 40).
  If remote ID is set to “On”, you can use the remote control without identical ID number during option menu display. (see page 40)
- 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 40)

Setup for Input Signals

Component / RGB-in select

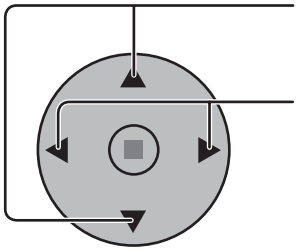
Select to match the signals from the source connected to the Component / RGB input terminals.
Y, P_B, P_R signals ⇨ “Component”
R, G, B, HD, VD signals ⇨ “RGB”



1 SET UP

Press to display the Setup menu.

2

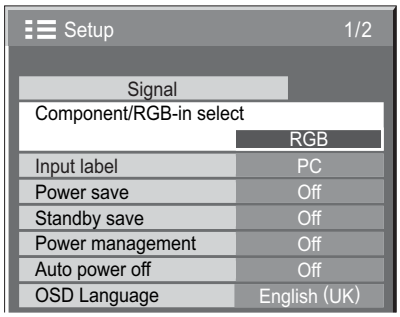


Press to select the “Component / RGB-in select”.

Press to select the desired input signal.
Component ⟷ RGB

3 R

Press to exit from adjust mode.

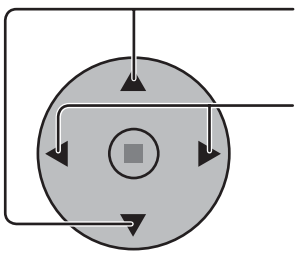


Note:
Selection may not be possible, depending on which optional board is installed.

3D Y/C Filter – For NTSC AV images

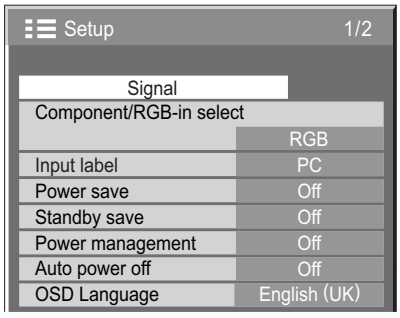
Select “Signal” from the “Setup” menu during AV(S Video) input signal. (“Signal [AV]” menu is displayed.)

1



Press to select the “3D Y/C Filter (NTSC)”

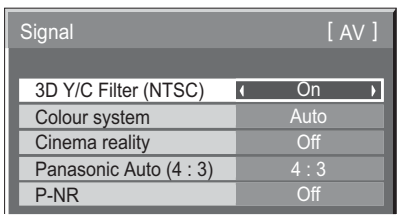
Press to set On / Off.



⇩ Press ACTION (■) button

2 R

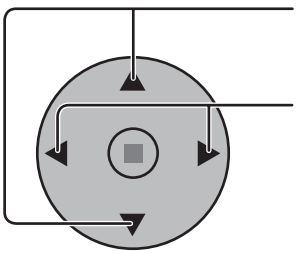
Press to exit from adjust mode.



Note:
When On, this setting only affects NTSC input signals.

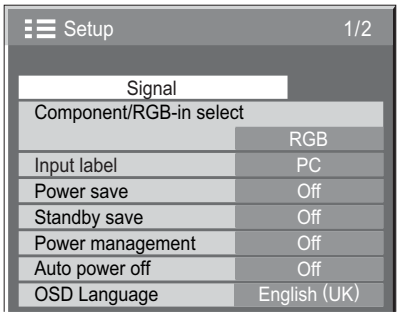
Colour system / Panasonic Auto

Select Signal from the “Setup” menu during AV(S Video) input signal. (“Signal [AV]” menu is displayed.)

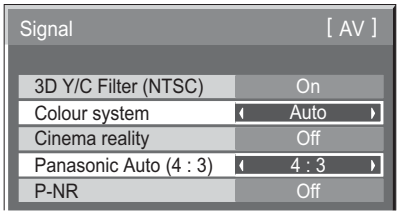


Press to select the “Colour system” or “Panasonic Auto”.

Press to select each functions.



⇩ Press ACTION (■) button



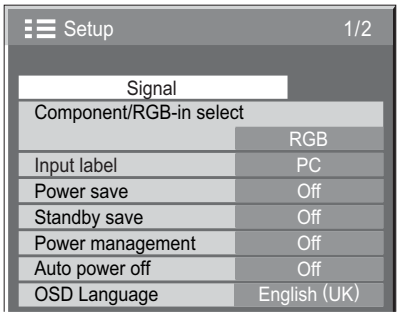
If the picture image becomes unstable:
With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

Mode	Function
Colour system	Set the colour system to match the input signal. If set to “Auto”, the colour system is determined automatically. → Auto ⟷ PAL ⟷ SECAM ⟷ M.NTSC ⟷ NTSC ←
Panasonic Auto (4 : 3)	Set to “4 : 3” 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”.

Cinema reality / P-NR

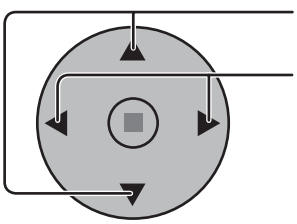
Cinema reality:
When on, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.
If the picture is not stable, turn the setting to off.
Note:
When On, this setting only affects the following signal input:
- NTSC / PAL signal input during “AV(S Video)” input signal.
- 525i(480i) 625i(575i), 1125(1080) / 60i signal input during “Component” input signal.

P-NR:
Automatically reduces unwanted picture noise.
Note:
P-NR cannot be adjusted while a PC signal is being applied.

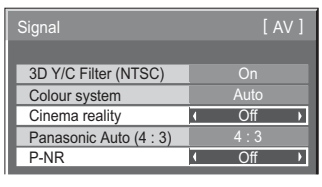


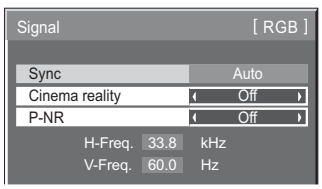
⇩ Press ACTION (■) button

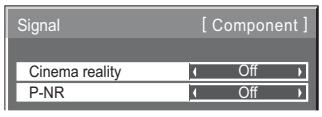
1

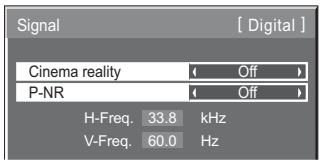


Press to select Cinema reality or P-NR.
Press to set On / Off.









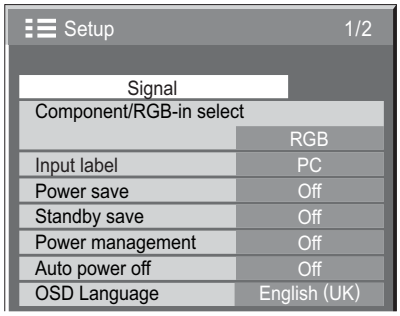
2

R

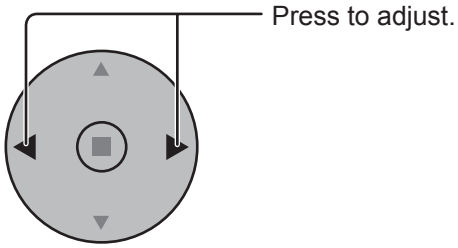
Press to exit from adjust mode.

Sync

Select Signal from the “Setup” menu during RGB input signal.

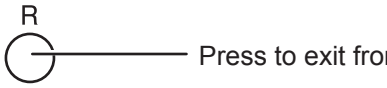


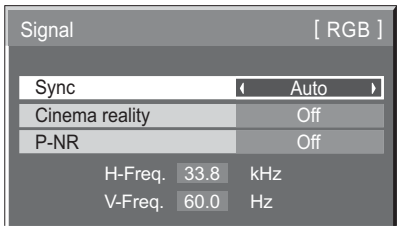
1



⇩ Press ACTION (■) button

2

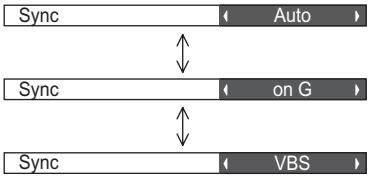




Setting RGB sync signal:

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.

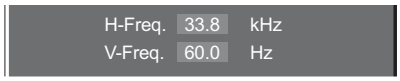


H-Freq. (kHz) / V-Freq. (Hz)

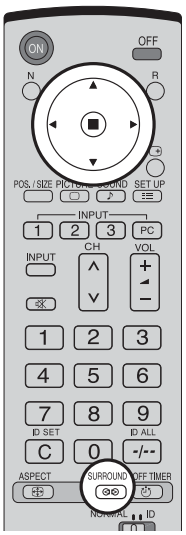
Displays the H (Horizontal) / V (Vertical) frequencies.

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

Horizontal	15 - 110 kHz
Vertical	48 - 120 Hz



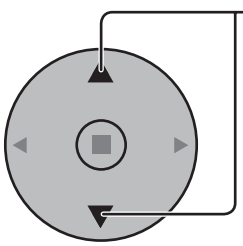
Options Adjustments



1 SET UP

Press to display the Setup menu.

2

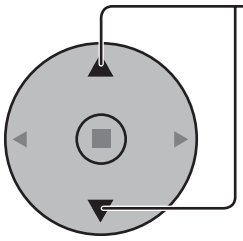


Press to select “OSD Language”.

3 SURROUND

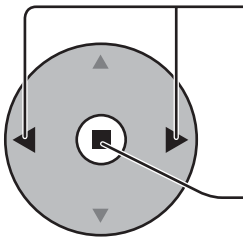
Press and hold until the Options menu is displayed.

4



Press to select your preferred menu.

5

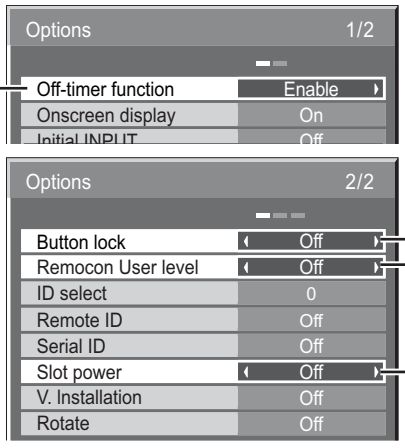


Press to adjust the menu.

Press to confirm.

6 SET UP

Press to exit from Options menu.



Press ◄ or ► button to switch between modes.
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.

Press ◄ or ► button to switch between modes.
Off ⟷ **MENU&ENTER** ⟷ **On**

Off
All the buttons at the bottom of the main unit can be used.

MENU & ENTER
Locks MENU and ENTER/■ buttons on bottom face of main unit.

On
Locks all the button on bottom face of main unit.

Press ◄ or ► button to switch between modes.
Off ⟷ **User1** ⟷ **User2** ⟷ **User3**

Off
You can use all of the buttons on the remote control.

User1
You can only use ON, OFF, INPUT, INPUT 1 2 3 PC, ○, SURROUND, ×, VOL + − buttons on the remote control.

User2
You can only use ON, OFF, buttons on the remote control.

User3
Locks all the buttons on remote control.

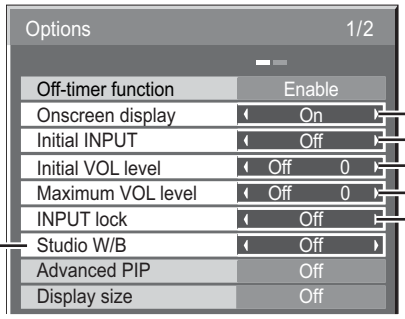
Press ◄ or ► button to switch between modes.
Off ⟷ **Auto** ⟷ **On**

Off
Power is not transmitted to the slot power.

Auto
Power is transmitted to the slot power only when main power is on.

On
Power is transmitted to the slot power when main power is on or in the standby state.

Note:
In some cases, power is transmitted to the slot power when main power is on or in the standby state regardless of the slot power setting.



Press ◄ or ► button to switch between modes.
Off ⟷ **PC** ⟷ **INPUT1** ⟷ **INPUT2** ⟷ **INPUT3**
Locks the input switch operation.
Notes:
- Only the adjusted signal is displayed. (see page 13).
- Signal can be displayed when the Terminal board is installed.
- Input switch can be used when this is set to "Off".
- In two screen display mode, if anything other than "Off" is set, the value will be fixed as the value input in the single screen display mode.

Press ◄ or ► button to switch between modes.
Off ⟷ **On**
Off
Nullify all the settings adjusted.
On
Sets the colour temperature for TV studio.
Note:
Valid only when the low is set as colour temperature on screen adjustment.

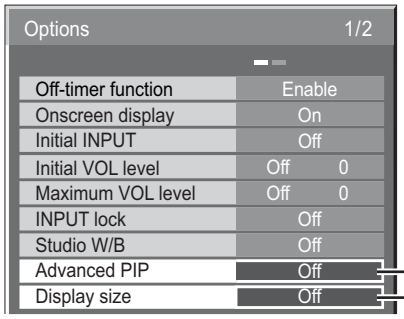
Press ◄ or ► button to switch between modes.
On ⟷ **Off**
On
Displays all the following on screen.
- Power on display
- Input signal switch display
- No signal display
- Mute and the remaining time of off-timer after ⏻ was pressed.

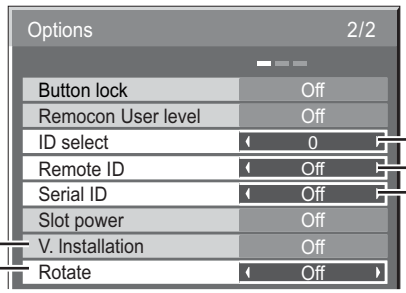
Off
Hides all the items above from view.

Press ◄ or ► button to switch between modes.
Off ⟷ **PC** ⟷ **INPUT1** ⟷ **INPUT2** ⟷ **INPUT3**
Adjusts the input signal when TV is turned on.
Notes:
- Only the adjusted signal is displayed. (see page 13).
- Signal can be displayed when the Terminal board is installed.
- This menu is available only when "INPUT lock" is "Off".

Press VOL + / − button to adjust the volume when TV is turned on.
Off ⟷ **On**
Off
Sets normal volume.
On
Sets your preferred volume.
Notes:
- When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range.
- You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.

Press VOL + / − button to adjust the maximum volume.
Off ⟷ **On**
Off
Sets auto maximum volume.
On
Sets your preferred maximum volume.
Notes:
- If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level".
- The volume display can go up to 63 regardless of the settings.
- You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.





Press ◄ or ► button to switch between modes.
Off ⟷ **On**

Off
Sets normal two screen display mode. (see page 20)

On
Sets Advanced PIP mode (see page 21).

Notes:
- When "INPUT lock" is "On", you cannot use all the two screen display functions.
- ASPECT, MOVE ZOOM buttons are unavailable during Advanced PIP mode operation.

Press ◄ or ► button to switch between modes.
Off ⟷ **On**

Adjusts the image display size on screen.

Off
Sets the normal image display size on screen.

On
Sets the image display size approximately 95 % of the normal image display.

Off **On**

Notes:
- This setting is valid only when the input signals are as follows; 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.

Press ◄ or ► button to switch between modes.
Off ⟷ **On**

Off
Does not rotate the image.

On
Rotates the image 180 degrees.

Press ◄ or ► button to switch between modes.
Off ⟷ **On**

Off
Sets fan to the horizontal installation mode.

On
Sets fan to the vertical installation mode.

Notes:
- This functions when display is turned on.
- This mode is available for TH-42PHD8WK/S, TH-50PHD8WK/S.
- Vertical installation is available for TH-42PWD8WK/S without this mode setting.
- Turn up the power switch for the upward direction when you set Display vertically.

Sets panel ID number when panel is used in "Remote ID" or "Serial ID".
Set value range: 0 - 100
(Standard value: 0)

1 2 3
4 5 6
7 8 9
0

Press ◄ or ► button to switch between modes.
Off ⟷ **On**

Sets the panel ID Control.

Off
Disables external control by the ID.

On
Enables the external control by the ID.

Press ◄ or ► button to switch between modes.
Off ⟷ **On**

Off
Disables ID remote control functions.
You can use normal remote control operations.

On
Enable ID remote control functions.

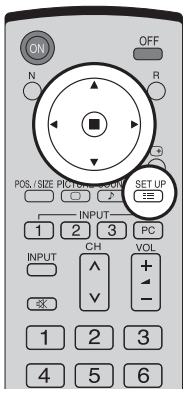
Normalization

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 ▢ (–/▼ VOL) button on main unit together with ◯ (R) 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

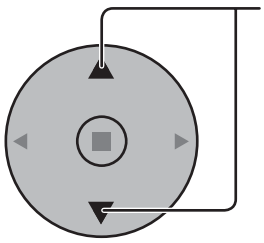
This function allows you to reset the unit to the factory setting.



1

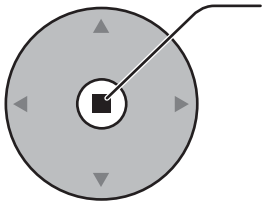
Press to display the Setup menu.

2

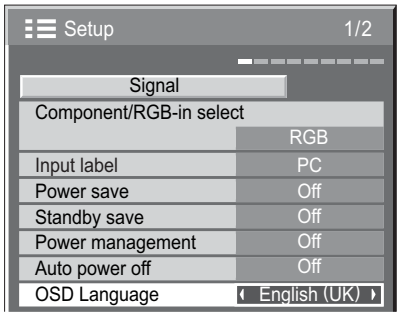


Press to select “OSD Language”.

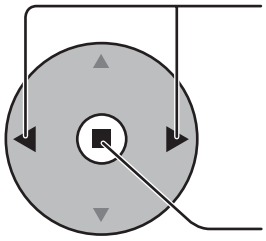
3



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 Setup 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 colour system format, or frequency is input, only the input terminal indication is displayed.
No Colour	Normal Sound	Colour controls set at minimum level (see page 22, 23) Colour system (see page 36)
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. Hence a slight time lag may occur between image and audio, depending on the type of input signal. However, this is not a malfunction.		

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 the 4:3 mode changes.	When viewing the side panels at the "High" 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.
 After-images appear	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 4:3 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-42PHD8WK/S, TH-50PHD8WK/S] 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 15PIN (Component) / RGB / MINI D-SUB 15PIN (RGB) (* Mark)

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component / MINI D-SUB 15PIN (Component)	RGB / MINI D-SUB 15PIN (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	47.92	*	*
10	1,125 (1,080) / 24sF	33.75	48.00	*	*
11	1,125 (1,080) / 25p	28.13	25.00	*	*
12	1,125 (1,080) / 30p	27.00	30.00	*	*
13	1,250 (1,080) / 50i	31.25	50.00	*	*
14	640 × 400 @70 Hz	31.46	70.07		*
15	640 × 480 @60 Hz	31.47	59.94		*2
16	640 × 480 @72 Hz	37.86	72.81		*
17	640 × 480 @75 Hz	37.50	75.00		*
18	640 × 480 @85 Hz	43.27	85.01		*
19	852 × 480 @60 Hz	31.47	59.94		*2
20	800 × 600 @56 Hz	35.16	56.25		*
21	800 × 600 @60 Hz	37.88	60.32		*
22	800 × 600 @72 Hz	48.08	72.19		*
23	800 × 600 @75 Hz	46.88	75.00		*
24	800 × 600 @85 Hz	53.67	85.06		*
25	1,024 × 768 @60 Hz	48.36	60.00		*
26	1,024 × 768 @70 Hz	56.48	70.07		*
27	1,024 × 768 @75 Hz	60.02	75.03		*
28	1,024 × 768 @85 Hz	68.68	85.00		*
29	1,152 × 864 @75 Hz	67.50	75.00		*
30	1,280 × 960 @60 Hz	60.00	60.00		*
31	1,280 × 960 @85 Hz	85.94	85.00		*
32	1,280 × 1,024 @60 Hz	63.98	60.02		*
33	1,280 × 1,024 @75 Hz	79.98	75.03		*
34	1,280 × 1,024 @85 Hz	91.15	85.02		*
35	1,600 × 1,200 @60 Hz	75.00	60.00		*
36	1,600 × 1,200 @65 Hz	81.25	65.00		*
37	1,066 × 600 @60 Hz	37.88	60.32		*
38	1,366 × 768 @60 Hz	48.36	60.00		*
39	Macintosh13” (640 × 480)	35.00	66.67		*
40	Macintosh16” (832 × 624)	49.72	74.54		*
41	Macintosh21” (1,152 × 870)	68.68	75.06		*

*1: When selected the RGB format and 525p signal input to the MINI D-SUB 15PIN terminal, it is recognized as VGA 60Hz signal.

*2: When inputted VGA 60Hz format signal from the other than MINI D-SUB 15PIN terminal, it is recognized as 525p signal.

Note: Signals without above specification may not be displayed properly.

Specifications

		TH-37PWD8WK/S	TH-42PWD8WK/S
Power Source		220 - 240 V AC, 50/60 Hz	
Power Consumption			
	Normal use	215 W	240 W
	Stand-by condition	Save off 1.2 W, Save on 0.9 W	Save off 1.2 W, Save on 0.9 W
	Power off condition	0.1 W	0.1 W
Plasma Display panel		Drive method : AC type 37-inch, 16:9 aspect ratio	Drive method : AC type 42-inch, 16:9 aspect ratio
	Contrast Ratio	4000:1	
Screen size		818 mm (W) × 461 mm (H) × 939 mm (diagonal)	920 mm (W) × 518 mm (H) × 1,056 mm (diagonal)
	(No. of pixels)	408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]	
Operating condition			
	Temperature	0 °C - 40 °C	
	Humidity	20 % - 80 %	
Applicable signals			
	Colour 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/OUT (BNC) S VIDEO IN (MINI DIN 4PIN) AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p (75-ohm or high impedance) Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm) 0.5 Vrms (high impedance)
	PC	(HIGH-DENSITY MINI D-SUB 15PIN) AUDIO IN (M3 JACK)	R,G,B/0.7 Vp-p (75-ohm) HD, VD/1.0 - 5.0 Vp-p (high impedance) 0.5 Vrms (high impedance)
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE
	SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)	
Accessories Supplied			
	Remote Control Transmitter	EUR7636070R	
	Batteries	2 × R6 Size	
	Fixing bands	(TMME203 or TMME187) × 2	
Dimensions (W × H × D)		920 mm × 550 mm × 89 mm (exclusive of protruding portion)	1,020 mm × 610 mm × 89 mm (exclusive of protruding portion)
Mass (weight)			
	main unit only	approx. 25.0 kg net	approx. 29.5 kg net
	with speakers	approx. 29.0 kg	approx. 33.5 kg

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

		TH-42PHD8WK/S	TH-50PHD8WK/S
Power Source		220 - 240 V AC, 50/60 Hz	
Power Consumption			
	Normal use	295 W	395 W
	Stand-by condition	Save off 0.8 W, Save on 0.6 W	Save off 0.8 W, Save on 0.6 W
	Power off condition	0.3 W	0.3 W
Plasma Display panel		Drive method : AC type 42-inch, 16:9 aspect ratio	Drive method : AC type 50-inch, 16:9 aspect ratio
	Contrast Ratio	3000:1	
Screen size		920 mm (W) × 518 mm (H) × 1,056 mm (diagonal)	1,106 mm (W) × 622 mm (H) × 1,269 mm (diagonal)
	(No. of pixels)	786,432 (1,024 (W) × 768 (H)) [3,072 ×768 dots]	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]
Operating condition			
	Temperature	0 °C - 40 °C	
	Humidity	20 % - 80 %	
Applicable signals			
	Colour 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/OUT (BNC) S VIDEO IN (MINI DIN 4PIN) AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p (75-ohm or high impedance) Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm) 0.5 Vrms (high impedance)
	PC	(HIGH-DENSITY MINI D-SUB 15PIN) AUDIO IN (M3 JACK)	R,G,B/0.7 Vp-p (75-ohm) HD, VD/1.0 - 5.0 Vp-p (high impedance) 0.5 Vrms (high impedance)
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE
	SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)	
Accessories Supplied			
	Remote Control Transmitter	EUR7636070R	
	Batteries	2 × R6 Size	
	Fixing bands	(TMME203 or TMME187) × 2	
Dimensions (W × H × D)		1,020 mm × 610 mm × 89 mm (exclusive of protruding portion)	1,210 mm × 724 mm × 95 mm (exclusive of protruding portion)
Mass (weight)			
	main unit only	approx. 31.5 kg net	approx. 43.0 kg net
	with speakers	approx. 35.5 kg	approx. 47.0 kg

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

Customer's Record
The model number and serial number of this product can be found on its rear panel. 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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