Panasonic®

Operating Instructions
Progressive Wide Plasma Display

Model No. **TH-37PWD7UY**
TH-42PWD7UY

High Definition Plasma Display

Model No. **TH-42PHD7UY**
TH-50PHD7UY

The illustration shown is an image.

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

English

TQBC0840

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

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

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

Important Safety Instructions

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments / accessories specified by the manufacturer.

12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.
To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.
Retain your purchase receipt as well, and record the model number and serial number of your set in the space provided on the rear cover of these instructions.

Table of Contents

FCC STATEMENT

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION:
Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

Attach the ferrite core:
The ferrite cores provided as a supplied accessory must be used when connecting this Plasma Display to video equipment. (see page 10, 11)

FCC CAUTION:
To assure continued compliance and possible undesirable interference, the provided ferrite cores must be used when connecting this plasma display to video equipment; and maintain at least 40 cm of spacing from other peripheral devices. Refer to instructions on pages 10, and 11.

CANADIAN NOTICE:
This Class A digital apparatus complies with Canadian ICES-003.

Note:
Do not allow a still picture to be displayed for an extended period, as this can cause permanent after-image to remain on the Plasma Display.
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Trademark Credits
- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

Safety Precautions

WARNING

■ Setup

Do not place the Plasma Display on sloped or unstable surfaces.
- The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.
- If water spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult an Authorized Service Center.

Do not cover the ventilation holes.
- Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

If using the pedestal (optional accessory), leave a space of 3 15/16" (10 cm) or more at the top, left and right, 2 3/8" (6 cm) or more at the bottom, and 2 3/4" (7 cm) or more at the rear. If using some other setting-up method, leave a space of 3 15/16" (10 cm) or more at the top, bottom, left and right, and 3/4" (1.9 cm) or more at the rear.

Avoid installing this product near electronic equipment that easily receives electromagnetic waves.
- It may cause interference in image, sound, etc. In particular, keep video equipment away from this product.

■ AC Power Supply Cord

The Plasma Display is designed to operate on 120 V AC, 50/60 Hz.

Securely insert the power cord plug as far as it will go.
- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

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

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

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

■ If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma Display, unplug the power cord immediately.
- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.
- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

⚠ CAUTION

<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-SP37P5W-K (TH-37PWD7UY), TY-SP42P5W-K (TH-42PWD7UY, TH-42PHD7UY), TY-SP50P5W-K (TH-50PHD7UY)
- Pedestal ····· TY-ST05-K, TY-ST07-K
- Wall stand ····· TY-ST42PW1
- Mobile stand ····· TY-ST42PF3 (except TH-37PWD7UY)
- Wall-hanging bracket (vertical) ····· TY-WK42PV7, TY-WK37PV3 (TH-37PWD7UY), TY-WK42PV1 (except TH-37PWD7UY)
- Wall-hanging bracket (angled) ····· TY-WK42PR7, TY-WK42PR1 (except TH-37PWD7UY)
- Wall-hanging bracket (drawer type) ····· TY-WK42DR1 (except TH-37PWD7UY)
- Ceiling unit ····· TY-CE42PS1
- Ceiling-hanging bracket ····· TY-CE42PS7
- BNC Component Video Terminal Board ····· TY-42TM6A
- BNC Composite Video Terminal Board ····· TY-42TM6B
- RCA Component Video Terminal Board ····· TY-42TM6Z
- RCA Composite Video Terminal Board ····· TY-42TM6V
- RGB (Digital) Terminal Board ····· TY-42TM6D
- RGB Active Through Terminal Board ····· TY-42TM6G
- PC Input Terminal Board ····· TY-42TM6P
- Composite / Component Video Terminal Board ····· TY-42TM6Y
- SDI Terminal Board ····· TY-FB7SD
- HD-SDI Terminal Board ····· TY-FB7HD
- HDMI Terminal Board ····· TY-FB7HM
- Wireless Presentation Board ····· TY-FB7WPU
- Touch Panel ····· TY-TP42P6-S (TH-42PWD7UY, TH-42PHD7UY), TY-TP50P6-S (TH-50PHD7UY)
- Fan kit ····· TY-UPK42HV7 (TH-42PHD7UY), TY-UPK50HV7 (TH-50PHD7UY)

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

■ When using the Plasma Display

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

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

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

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

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

- Electric shocks can result if this is not done.

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

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

This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.

Note:

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

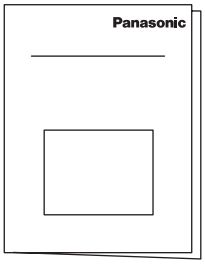
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Accessories

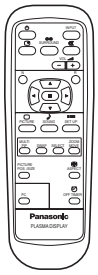
Accessories Supplied

Check that you have the Accessories and items shown ☑

☐ Operating Instruction book

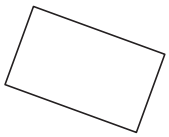


☐ Remote Control Transmitter EUR646529

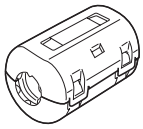


☐ Batteries for the Remote Control Transmitter (AA Battery × 2)

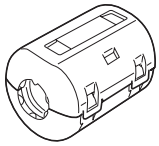
☐ Warranty



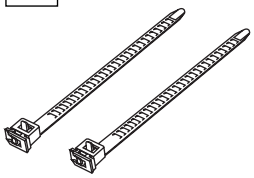
☐ Ferrite core (Small size) × 1



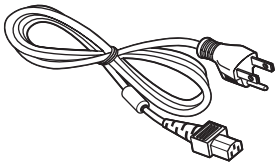
☐ Ferrite core (Large size) × 2



☐ Fixing bands



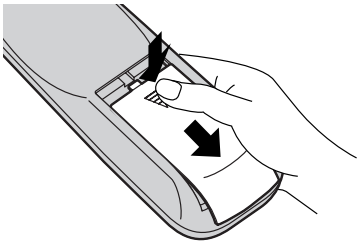
☐ AC cord



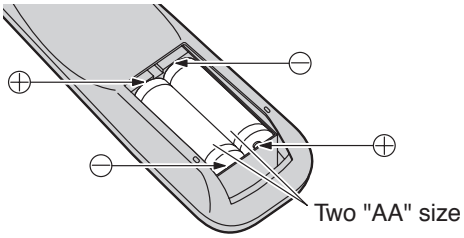
Remote Control Batteries

Requires two AA batteries.

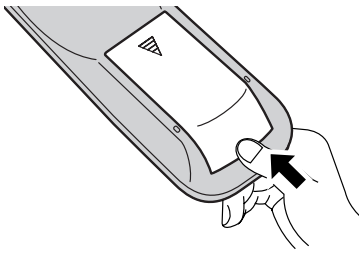
1. Turn the transmitter face down. Press and slide off the battery cover.



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



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.

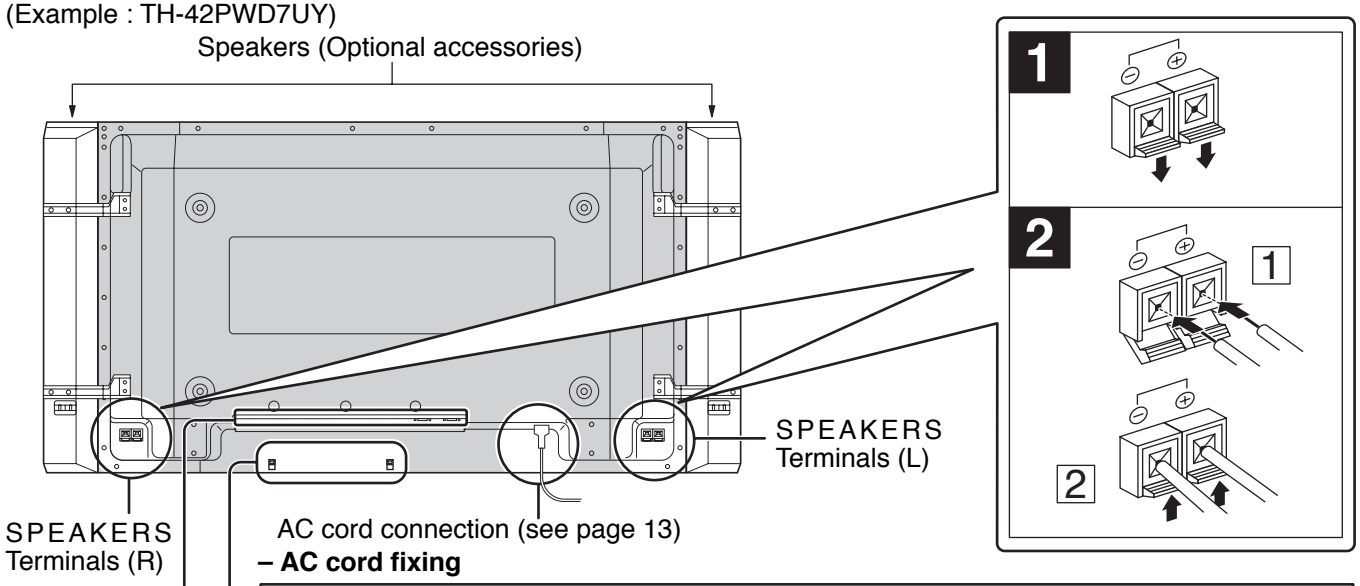
Observe the following precautions:

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

Connections

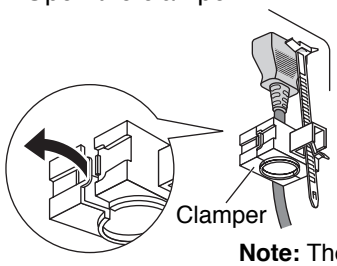
When connecting the speakers, be sure to use only the optional accessory speakers.
Refer to the speaker's Installation Manual for details on speaker installation.

(Example : TH-42PWD7UY)

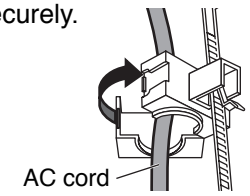


– AC cord fixing

1. Open the clamper.

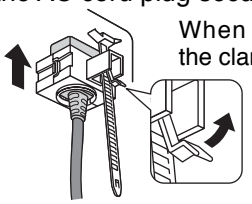


2. Insert the AC cord and close the clamper securely.



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

When loosen the clamper:

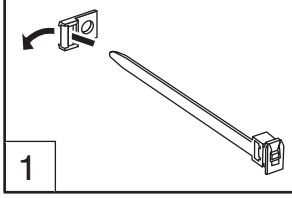


Note: The power plug in the illustration may not be the type fitted to your set.

– Cable fixing bands

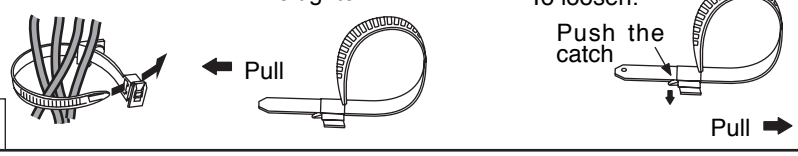
Secure any excess cables with bands as required.

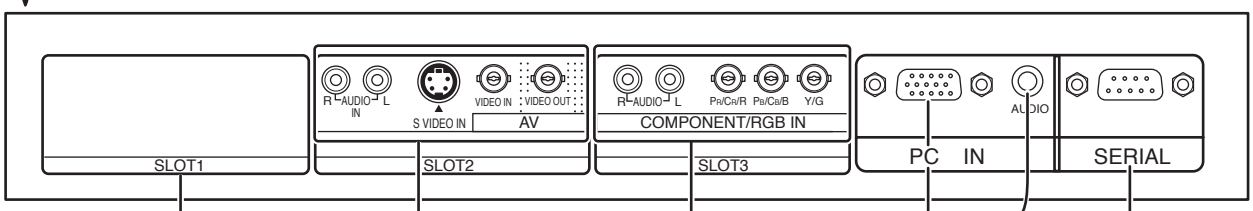
Pass the attached cable fixing band through the clip as shown in the figure.



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.

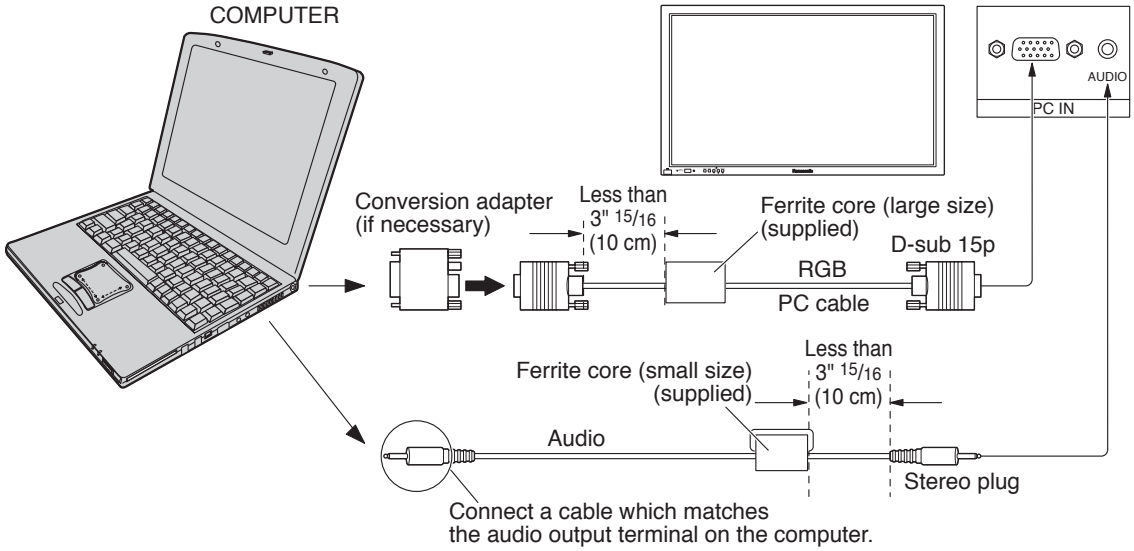


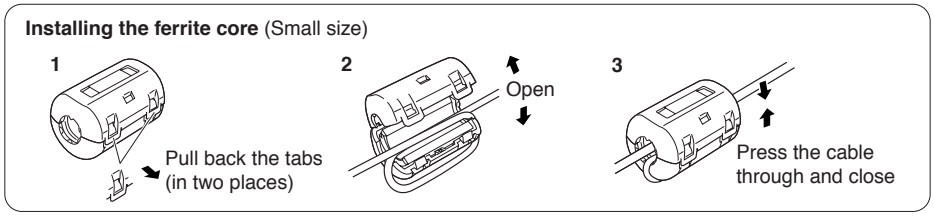


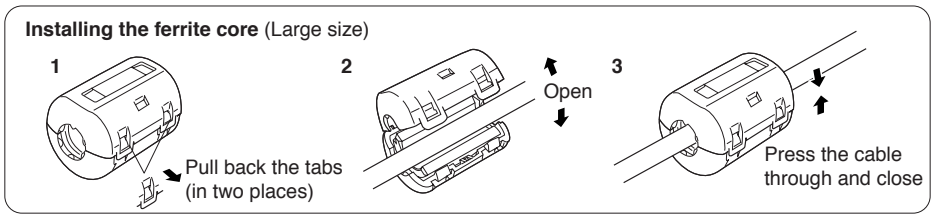
Optional Terminal Board Insert Slot (covered)	AV Terminals (see page12)	COMPONENT/RGB IN and Audio IN Terminals (see page12)	From EXTERNAL monitor terminal on Computer (see page 10)	From SERIAL Terminal on Computer (see page 11)

Note: At factory shipment, Terminal boards are installed in SLOT 2 and SLOT 3. TH-37PWD7UY has 2 SLOTs only.

PC Input Terminals connection



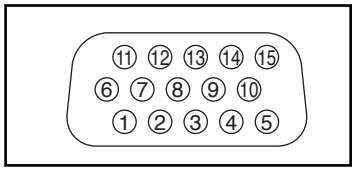




Notes:

- 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-37PWD7UY, TH-42PWD7UY), 768 × 768 dots (TH-42PHD7UY), 1,024 × 768 dots (TH-50PHD7UY) when the aspect mode is set to "NORMAL", and 852 × 480 dots (TH-37PWD7UY, TH-42PWD7UY), 1,024 × 768 dots (TH-42PHD7UY), 1,366 × 768 dots (TH-50PHD7UY) when the aspect mode is set to "FULL". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC1/2B-compatible. If the computer being connected is not DDC1/2B-compatible, you will need to make setting changes to the computer at the time of connection.
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1,2,3 of the D-sub 15P Connector.

Signal Names for D-sub 15P Connector

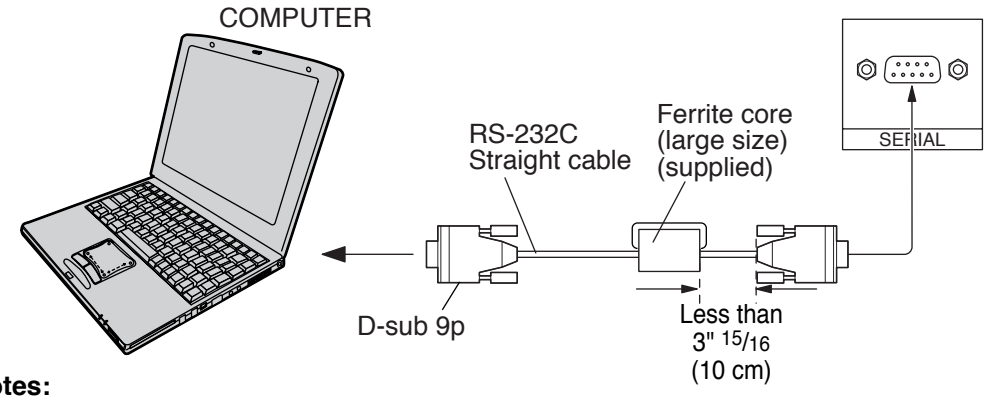


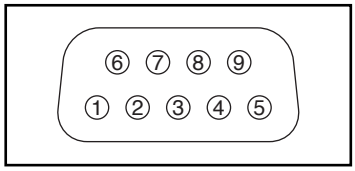
Pin Layout for PC Input Terminal

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

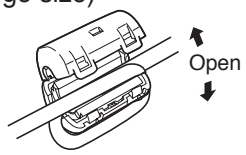
The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for RS-232C

Installing the ferrite core
(Large size)



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.

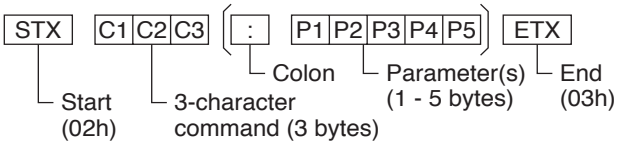
Communication parameters

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.



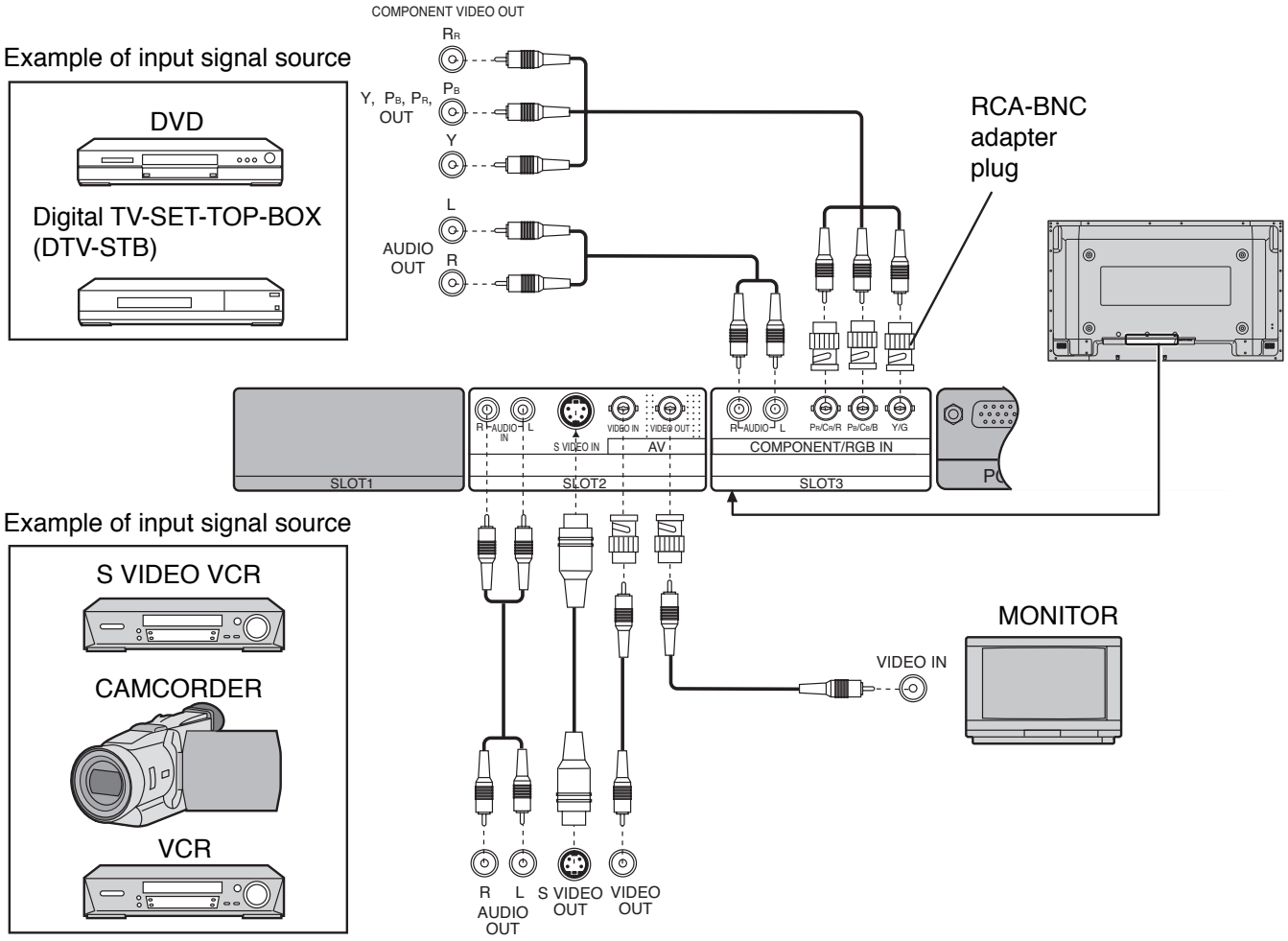
Notes:
- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an “ER401” command back to the computer.

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	NORMAL (4:3)
	ZOOM	ZOOM
	FULL	FULL
	JUST	JUST
	SELF	Panasonic AUTO

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

AV & COMPONENT connection

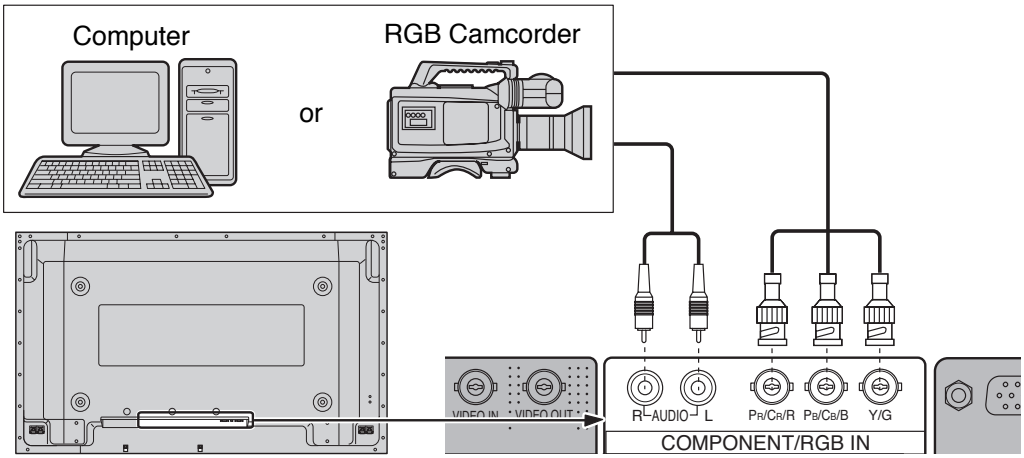


Notes:

• Change the “COMPONENT/RGB-IN SELECT” setting in the “SET UP” menu to “COMPONENT”. (see page 34)

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

RGB signal (R, G, B, HD, VD)



Notes:

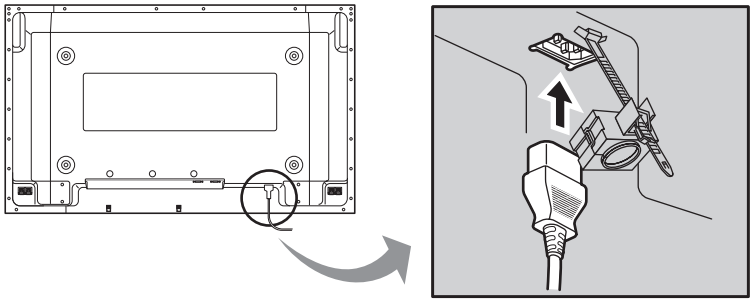
• Change the “COMPONENT/RGB-IN SELECT” setting in the “SET UP” menu to “RGB”. (see page 34)

• 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 9)

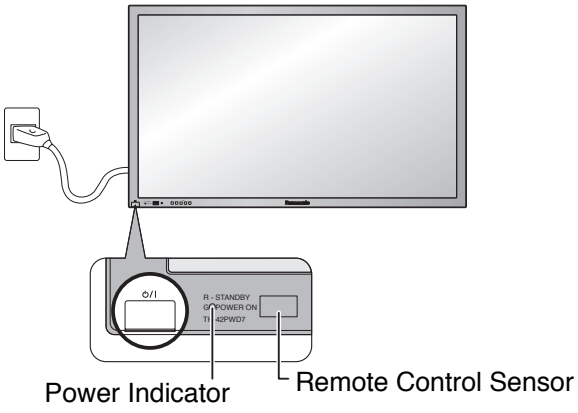


Connecting the plug to the Wall Outlet

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

Power Indicator: Green

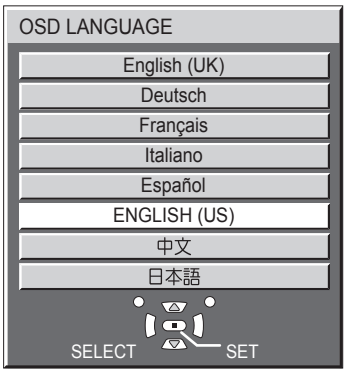
Example: The screen below is displayed for a while after the Plasma Display is turned on. (setting condition is an example.)



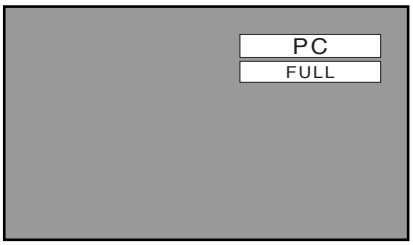
When the POWER is turned on for the first time, the LANGUAGE selection screen is displayed.

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

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



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



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

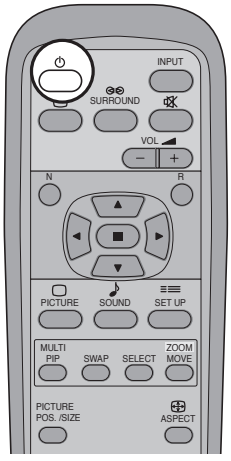
Power Indicator: Red (standby)

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

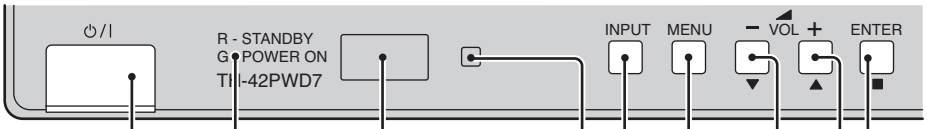
Power Indicator: Green

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

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



Basic Controls



Main Power On / Off Switch

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

Remote control sensor

C.A.T.S. sensor
Plasma C.A.T.S. (Contrast Automatic Tracking System)
Plasma C.A.T.S. automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimise contrast.
(Effective when PICTURE MENU is set to AUTO.)

Enter / Aspect button
(see page 16, 19)

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)

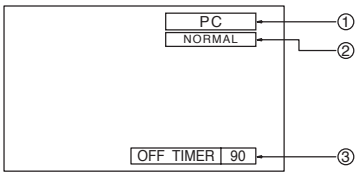
MENU Screen ON / OFF
Each time the MENU button is pressed, the menu screen will switch. (see page 16)

Normal Viewing → PICTURE → SET UP → SOUND ← PICTURE POS./SIZE ←

INPUT button
(INPUT1, INPUT2, INPUT3 and PC IN selection)
(see page 18)

Status button

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



① Input label
② Aspect mode (see page 19)
③ Off timer
The off timer indicator is displayed only when the off timer has been set.

N button (see page 20, 22, 23, 24)

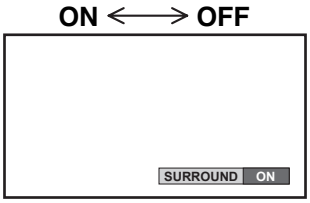
PICTURE button (see page 22)

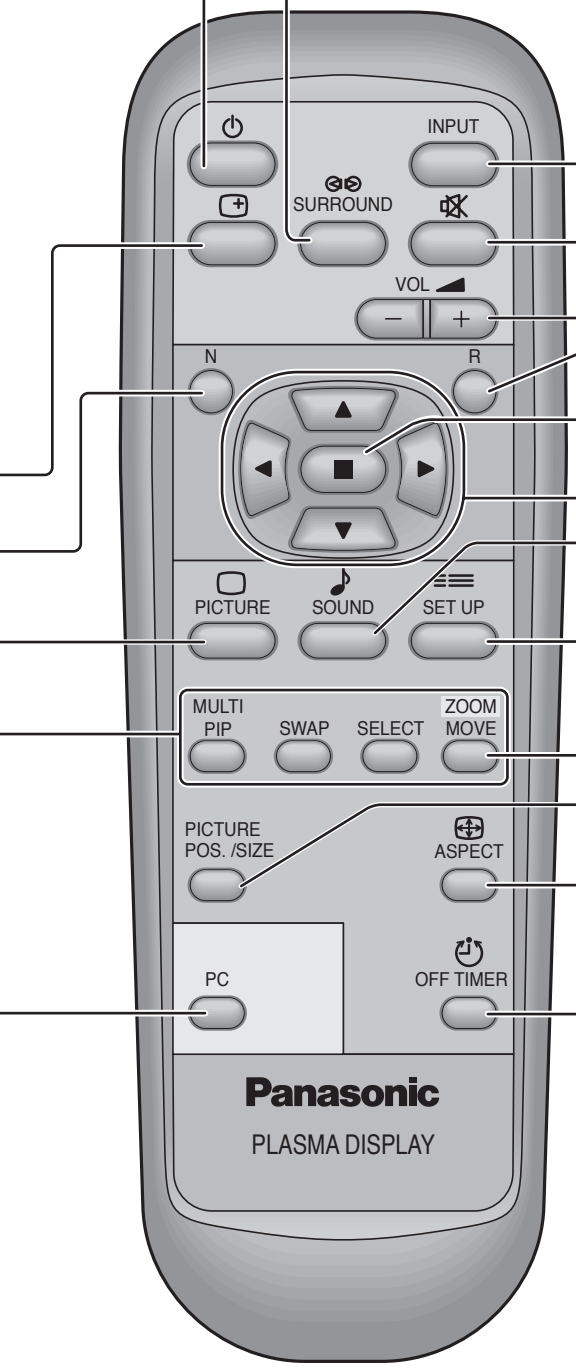
MULTI Window buttons (see page 21)

PC button
Press the "PC" input mode selection button to select the PC input mode.
This button is used to switch directly to PC input mode.
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 38), this function is not the perfect solution to after-image.

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

SURROUND button
The surround setting switches on and off each time the SURROUND button is pressed.
The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.
Note:
The surround settings are memorized separately for each AUDIO MENU (STANDARD, AUTO).





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

Sound mute On / Off (see page 24)

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

R button (see page 16, 17)
Press the R button to return to previous menu screen.

ACTION button
Press to make selections.

POSITION buttons

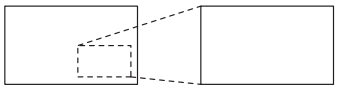
SOUND button (see page 24)

SET UP button (see page 16)

Digital Zoom (see page 25)

Press to access Digital Zoom.

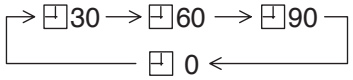
This displays an enlargement of the designated part of the displayed image.



PICTURE POS. / SIZE button (see page 20)

ASPECT button
Press to adjust the aspect. (see page 19)

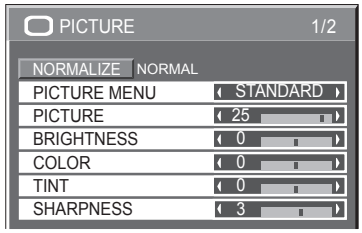
OFF TIMER button
The Plasma Display can be preset to switch to stand-by after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.

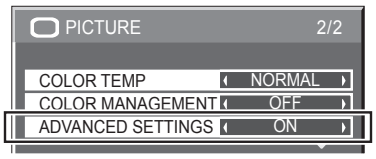


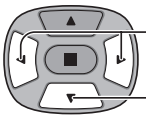
When three minutes remain, "Off timer 3" will flash.
The off timer is cancelled if a power interruption occurs.

On-Screen Menu Displays

To PICTURE adjust menu
(see page 22)

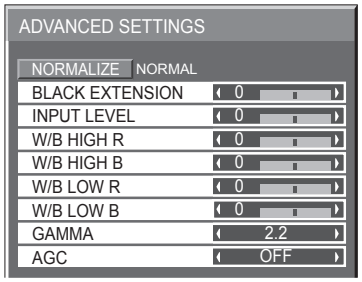




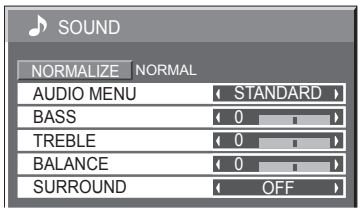


Press to select "ON".
Press to enter ADVANCED SETTINGS.

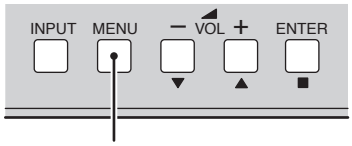
To ADVANCED SETTINGS
(see page 22, 23)



To SOUND adjust menu
(see page 24)

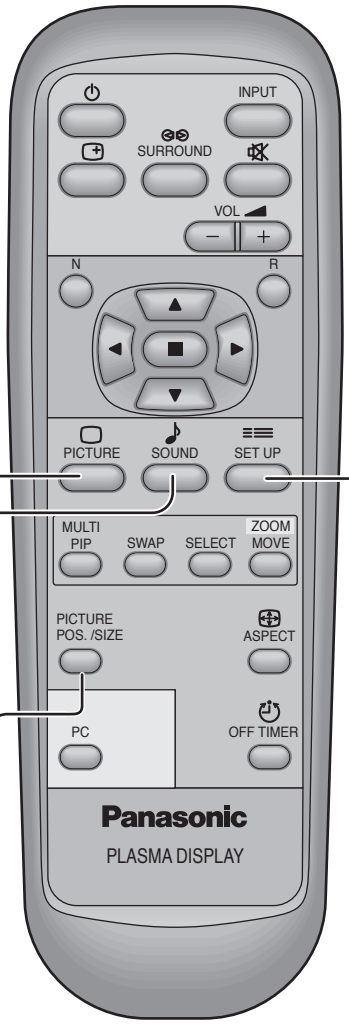


The MENU button on the unit can also be pressed.



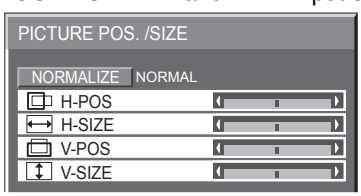
Each time the MENU button is pressed, the menu screen will switch.

→ Normal Viewing → PICTURE → SET UP →
SOUND ← PICTURE POS./SIZE ←

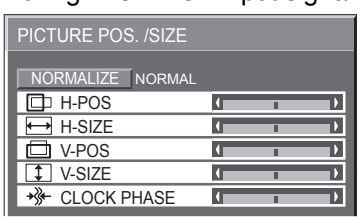


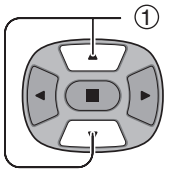
To PICTURE POS./SIZE adjust menu (see page 20)

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

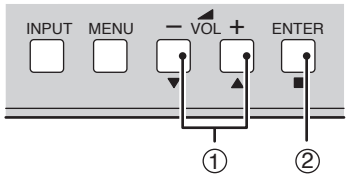


During "RGB/PC" input signal.

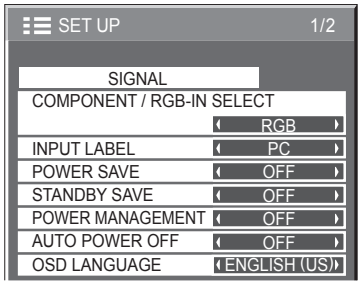


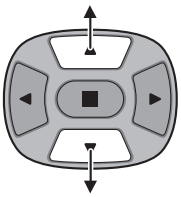


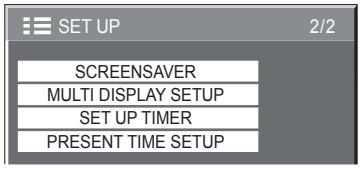
[from the unit]

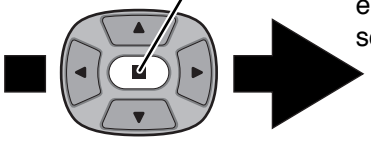


① Press to select.
② Press to access each adjust screen.



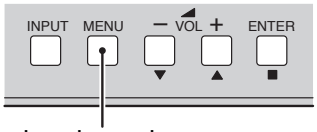




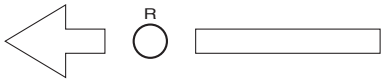


② Press to access each adjust screen.

[from the unit]

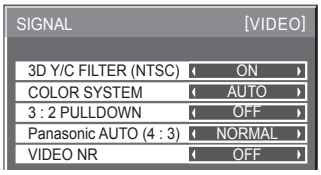


Press to return to next menu screen.

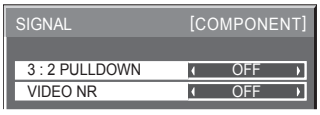


Press the R button to return to previous menu.

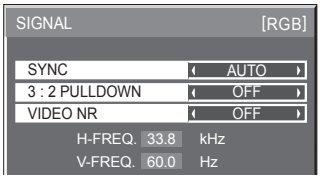
To SIGNAL screen for VIDEO (S VIDEO) (see page 34, 35)



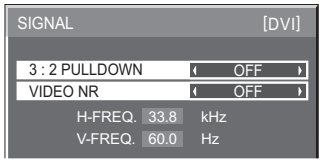
To SIGNAL screen for COMPONENT (see page 35)



To SIGNAL screen for RGB (see page 35, 36)

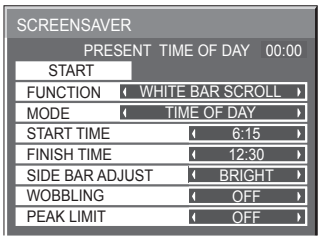


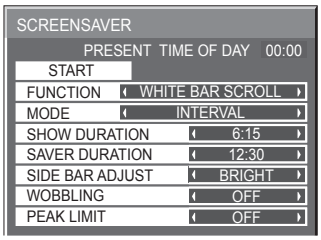
To SIGNAL screen for DVI (see page 35, 36)

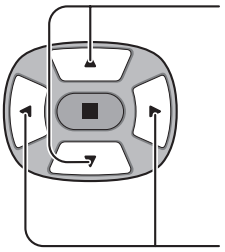


Note: "SIGNAL" setup menu displays a different setting condition for each input signal. (see page 18)

To setup SCREENSAVER (See page 28-30)

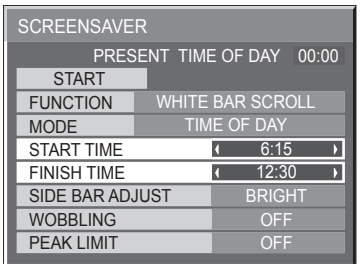


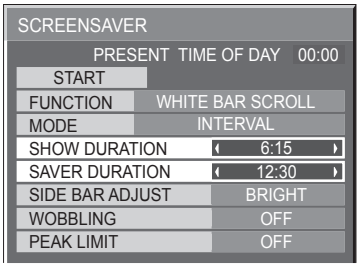


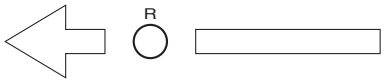


Press to select START TIME/ FINISH TIME (When TIME OF DAY is selected).
Press to select SHOW DURATION/ SAVER DURATION (When INTERVAL is selected).

Press to set up.

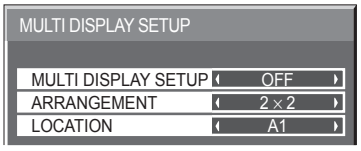




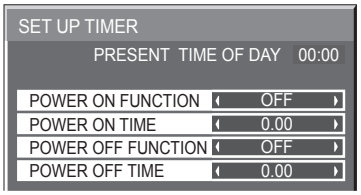


Press the R button to return to "SET UP" menu.

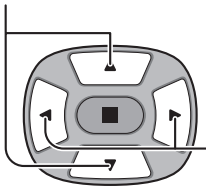
To setup MULTIDISPLAY screen. (See page 32)



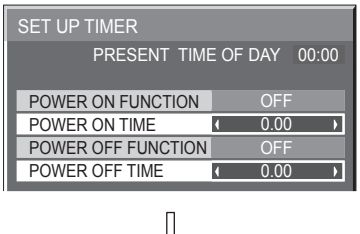
To SET UP TIMER selection screen.(see page 26, 27)

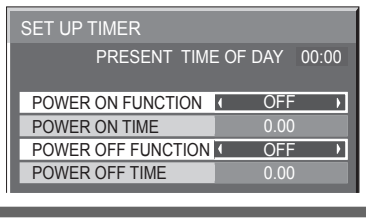


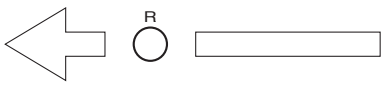
Press to select POWER ON TIME / POWER OFF TIME.



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

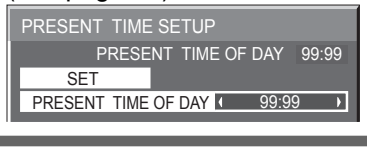






Press the R button to return to "SET UP" menu.

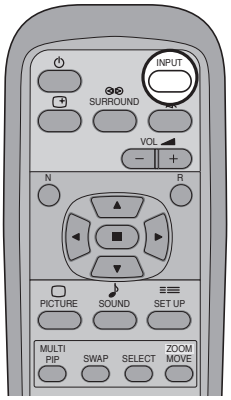
To PRESENT TIME SETUP. (see page 26)



Initial selections

Selecting the input signal

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



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

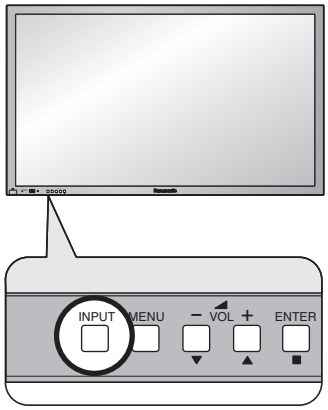
Input signals will change as follows:

• TH-37PWD7UY

→ INPUT1 → INPUT2 → PC IN

• TH-42PWD7UY, TH-42PHD7UY, TH-50PHD7UY

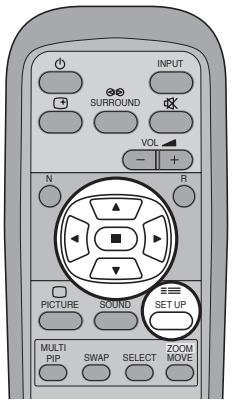
→ INPUT1 → INPUT2 → INPUT3 → PC IN

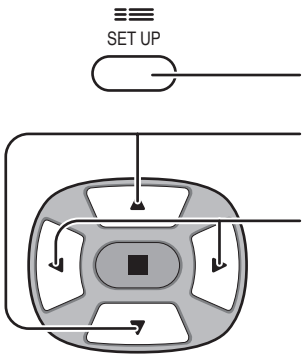


Notes:

- 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 34)
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.

Selecting the On-Screen Menu Language





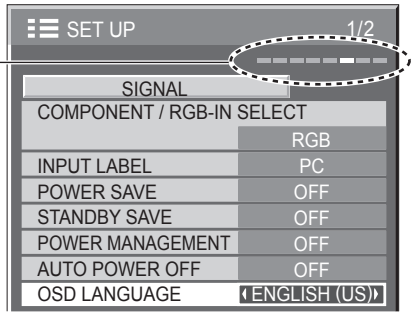
Press to display the SET UP menu.

Press to select OSD LANGUAGE.

Press to select your preferred language.

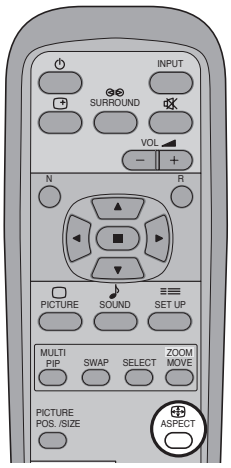
■ Selectable languages

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



ASPECT Controls

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

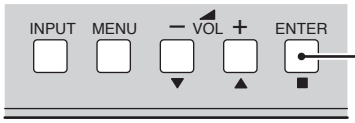


ASPECT

Press repeatedly to move through the aspect options:

NORMAL → ZOOM → FULL → Panasonic AUTO ← JUST ←

[from the unit]



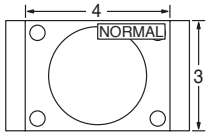
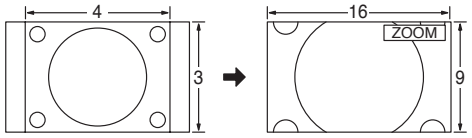
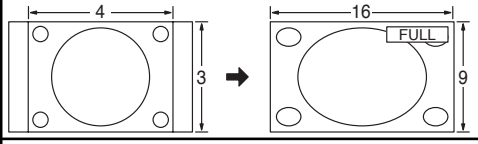
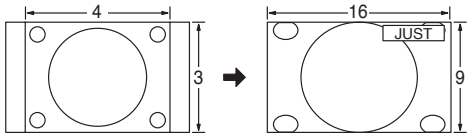
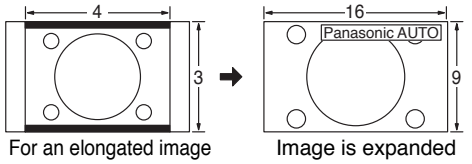
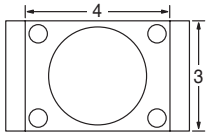
The aspect mode changes each time the ENTER button is pressed.

[During MULTI PIP Operations]

- Picture and Picture, Picture in Picture : NORMAL → 16 : 9
- Others : Aspect switching is not possible.

Notes:

- For PC signal input, the mode switches between “NORMAL”, “ZOOM” and “FULL” only.
- For a 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p signal input during “COMPONENT”,“RGB” and “DVI” input signal, the mode is set to “FULL” mode, and switching is not possible.
- Panasonic AUTO can be selected only during Video signal input.
- The aspect mode is memorized separately for each input terminal (INPUT1, INPUT2, INPUT3 and PC IN).

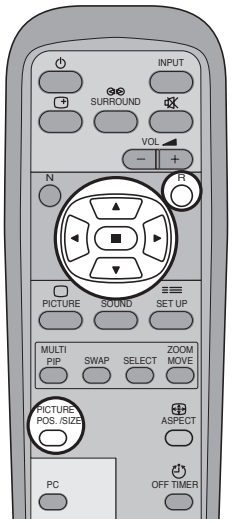
Mode	Picture	Explanation
NORMAL		NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with slight elongation.
JUST		JUST mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic AUTO	 For an elongated image → Image is expanded  For a 4:3 image → Changes in accordance with the Panasonic AUTO mode setting (see page 35).	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. **Notes:** • Panasonic AUTO mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to NORMAL. • If adjusting the PICTURE V-POS/V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

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

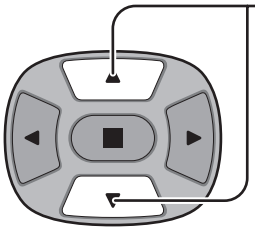
Adjusting PICTURE POSITION / SIZE

1 PICTURE POS. /SIZE

Press to display the PICTURE POS. /SIZE menu.

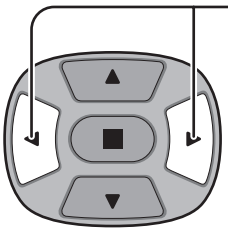


2



Press to select H-POS / H-SIZE / V-POS / V-SIZE / CLOCK PHASE.

3

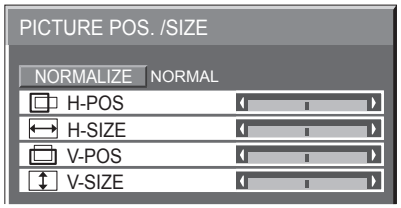


Press to adjust POS. / SIZE.

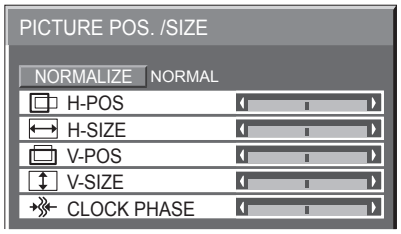
4 R

Press to exit from adjust mode.

During “VIDEO (S VIDEO)”, “COMPONENT” and “DVI” input signal.



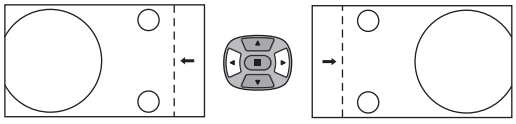
During “RGB / PC” input signal.



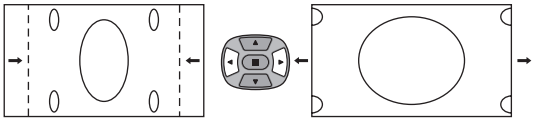
Notes:

- 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 FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

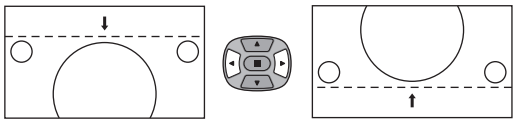
H-POS Adjust the horizontal position.



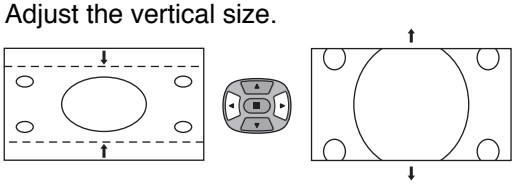
H-SIZE Adjust the horizontal size.



V-POS Adjust the vertical position.



V-SIZE Adjust the vertical size.



CLOCK PHASE (RGB/PC in mode) Eliminate the flickering and distortion.

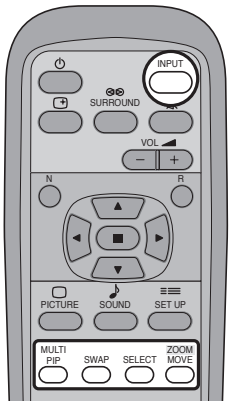
Helpful Hint (N / NORMALIZE Normalization)

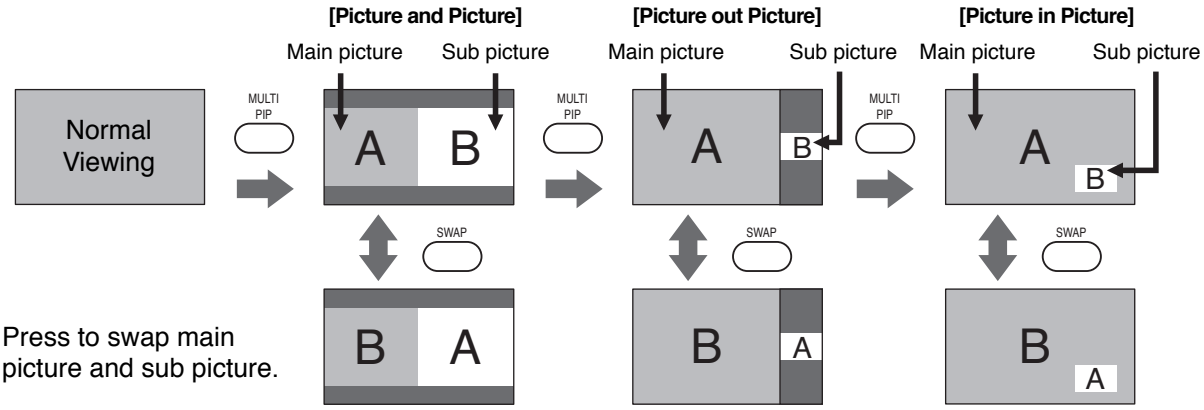
While the PICTURE POS. / SIZE display is active, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during “NORMALIZE”, then all adjustment values are returned to the factory settings.

MULTI PIP

MULTI PIP

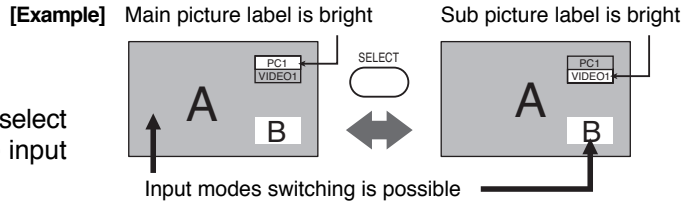
Press repeatedly.
Each time pressing this button main picture and sub picture will be displayed as follows bellow.





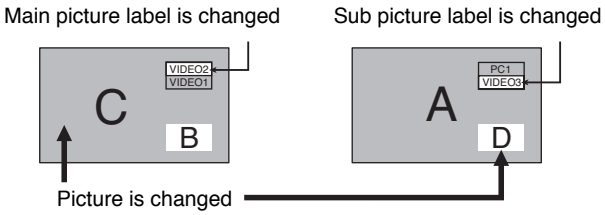
SWAP

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.

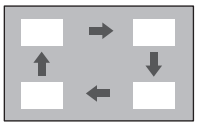


INPUT

Press to change input signal.

ZOOM MOVE

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



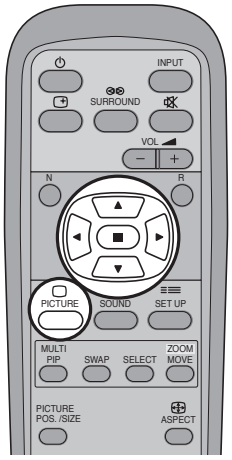
Notes:
- This button is effective only in the picture in picture.
- The sub picture may be hidden by the on screen display, depending on its position.

Notes:
- Sound output is from the main picture.
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the 2-picture display mode.
- Due to the small dimensions of the sub pictures used for the picture in picture and picture out picture displays, these sub pictures cannot be shown in detail.
- Two computer screen pictures are displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.

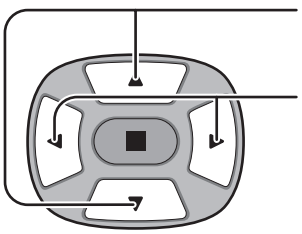
PICTURE Adjustments

1

Press to display the PICTURE menu.

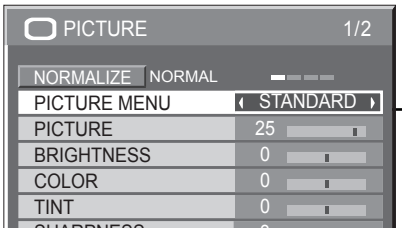


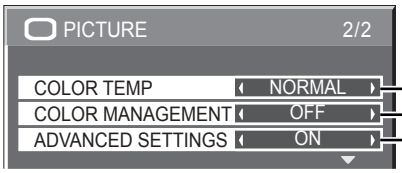
2 Select to adjust each item.



Press to select the menu to adjust.

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





Press the left ◄ or right ► button to switch between modes.

AUTO ⟷ STANDARD
CINEMA ⟷ DYNAMIC

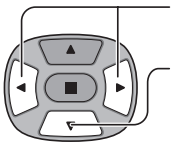
AUTO
Automatically selects the mode that best suits the brightness of the environment.

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

DYNAMIC
For viewing in brighter environments.
This menu selects higher than normal levels of BRIGHTNESS and PICTURE.

CINEMA
Ideal for movies.

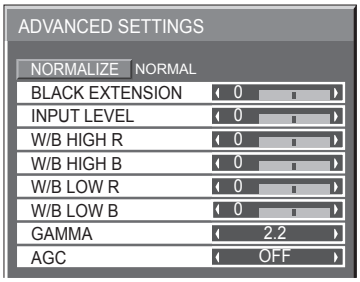
Note:
If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (see next page)



Press to select "ON".

Press to enter Advanced Settings.

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



ADVANCED SETTINGS OFF
Displays images with settings of the PICTURE menu.

Press the left ◄ or right ► button to switch between modes.

NORMAL ⟷ COOL ⟷ WARM

COLOR MANAGEMENT ON
Enables vivid colour adjustment automatically.

Helpful Hint (N / NORMALIZE Normalization)

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

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

Notes:
- "COLOR" and "TINT" settings cannot be adjusted for "RGB/PC" and "DVI" input signal.
- You can change the level of each function (PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE MENU.
- The setting details for STANDARD, DYNAMIC and CINEMA respectively are memorized separately for each input mode (INPUT1, INPUT2 , INPUT3 and PC IN).
- The "TINT" setting can be adjusted for NTSC signal only during "VIDEO (S VIDEO)" input signal.
- In PICTURE, there is nor 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 gradiation.
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 mode (INPUT1, INPUT2 , INPUT3 and PC IN).
- The adjustment range values should be used as an adjustment reference.

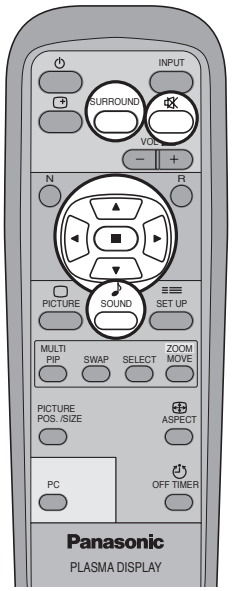
Helpful Hint (N / NORMALIZE Normalization)

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

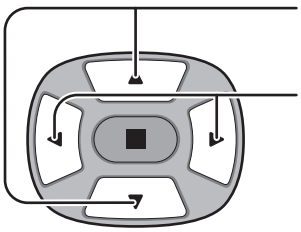
SOUND Adjustment

1 SOUND

Press to display the SOUND menu.



2 Select to adjust each item.



Press to select the menu to adjust.

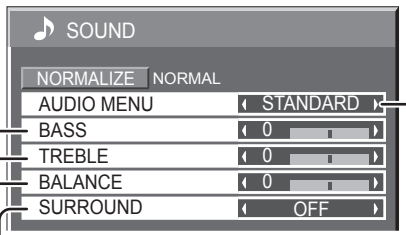
Select the desired level by listening to the sound.

BASS
Adjusts low sounds

TREBLE
Adjusts high sounds

BALANCE
Adjusts left and right volumes

SURROUND
Select ON or OFF



STANDARD — Emits the original sound.

AUTO — Automatically controls proper volume level.

Notes:
- Press the SURROUND button to directly turn the surround effect ON and OFF. (see page 15)
- BASS, TREBLE and SURROUND settings are memorized separately for each AUDIO MENU (STANDARD, AUTO).

Helpful Hint (N / NORMALIZE Normalization)

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

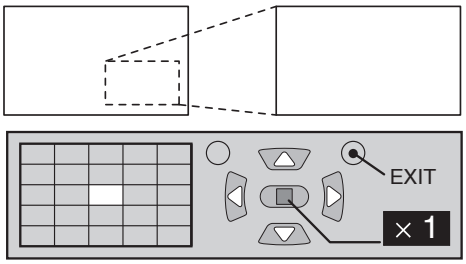
MUTE

Useful when answering the phone or receiving unexpected visitors.

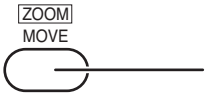
Press this button to mute the sound.
Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

Digital Zoom

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



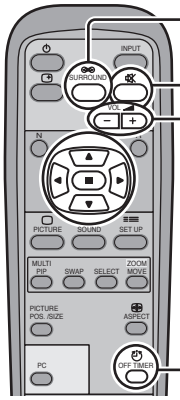
1 **Display the “Operation Guide”.**



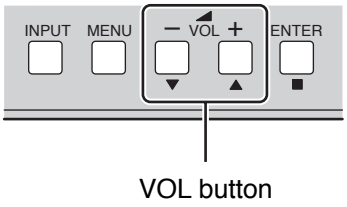
Press to access Digital Zoom.
The “Operation Guide” will be displayed.

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

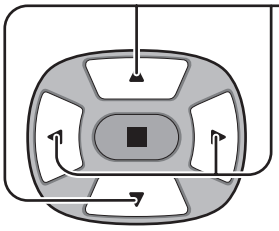
[Remote control]



[Unit]

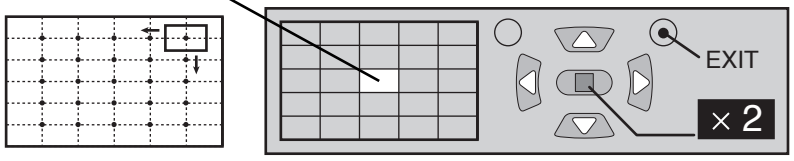


2 **Select the area of the image to be enlarged.**

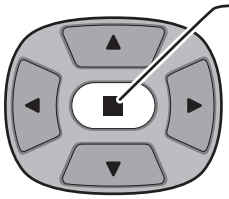


Press on the enlargement location to select.

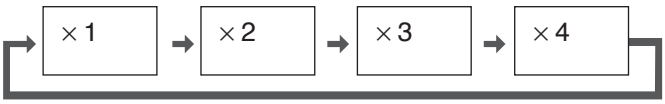
The cursor will move.



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).**

Press to exit from the Digital Zoom.

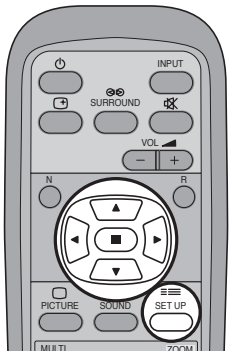
Notes:

- When power goes OFF (including “Off Timer” operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation states:
  “Multi-screen” (MULTI DISPLAY).(see page 32)
  “Multi-viewer” (Picture in Picture, Picture out Picture, Picture and Picture) operation. (see page 21)
- While Digital Zoom is in operation, “Adjusting PICTURE POSITION/SIZE” cannot be used.
- The Digital Zoom capability is functional for the following component signals:
  525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 750 (720) / 60p · 50p, 1250 (1080) / 50i
- The Digital Zoom capability is functional for the following composite signals:
  NTSC, PAL, SECAM

PRESENT TIME SETUP / SET UP TIMER

The timer can switch the Plasma Display ON or OFF.

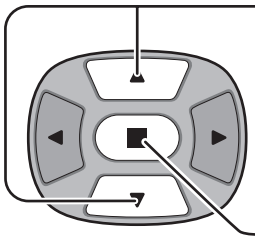
Before attempting Timer Set, confirm the PRESENT TIME OF DAY and adjust if necessary.
Then set POWER ON TIME / POWER OFF TIME.



1

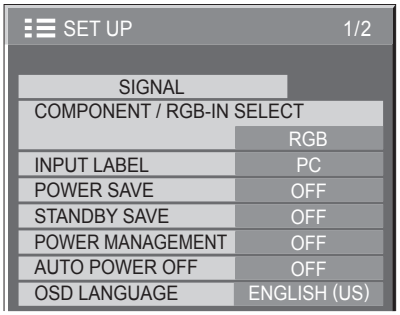
Press to display the SET UP menu.

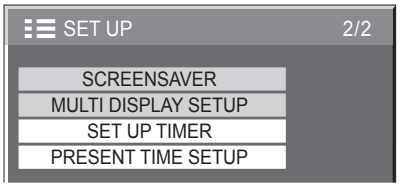
2



Press to select SET UP TIMER or PRESENT TIME SETUP.

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



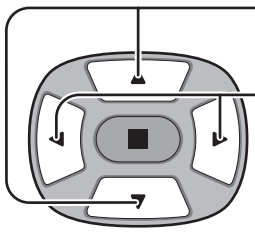


PRESENT TIME SETUP

Display the PRESENT TIME SETUP screen.

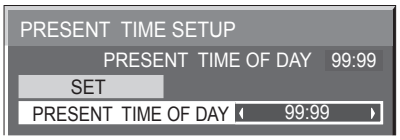
To set up PRESENT TIME OF DAY, follow the procedure described below.

1



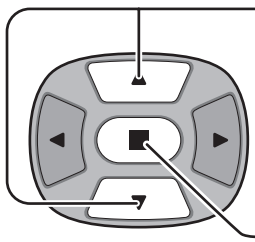
Press to select PRESENT TIME OF DAY.

Press to set up PRESENT TIME OF DAY.
► button: Forward
◄ button: Back

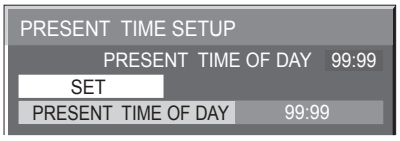


Notes:
- Pressing "◄" or "►" button once changes PRESENT TIME OF DAY 1minute.
- Pressing "◄" or "►" button continuously changes PRESENT TIME OF DAY by 15 minutes.

2



Press to select Set.



Press to store PRESENT TIME SETUP.

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

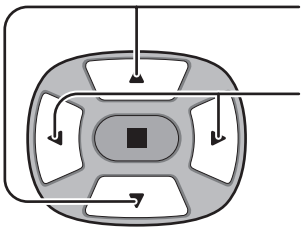
3

Press to exit from PRESENT TIME SETUP.

SET UP TIMER

Display the SET UP TIMER SCREEN.

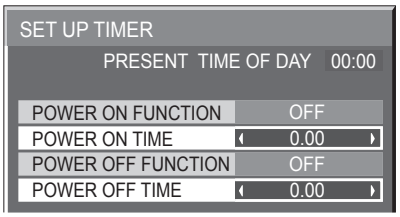
1



Press to select
POWER ON TIME / POWER OFF TIME.

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

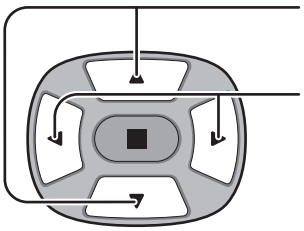
► button: Forward
◄ button: Back



Notes:

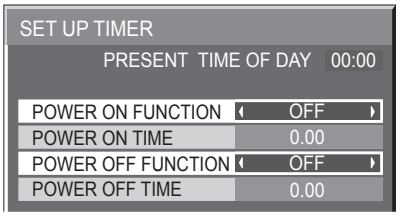
- Pressing "◄" or "►" button once changes POWER ON TIME / POWER OFF TIME 1minute.
- Pressing "◄" or "►" button continuously changes POWER ON TIME / POWER OFF TIME by 15 minutes.

2



Press to select POWER ON FUNCTION
/ POWER OFF FUNCTION.

Press to select ON.



3

Press twice to exit from SET UP.

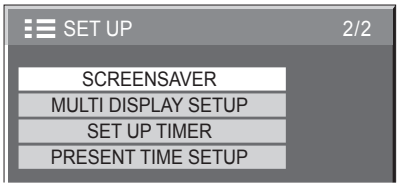
Note:
Timer function will not work unless "PRESENT TIME OF DAY" is set.

SCREENSAVER (For preventing after-images)

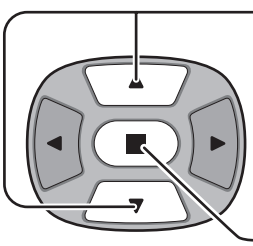
Do not display a still picture, especially in 4:3 mode, for any length of time.
If the display must remain on, a SCREENSAVER should be used.

1

Press to display the SET UP menu.



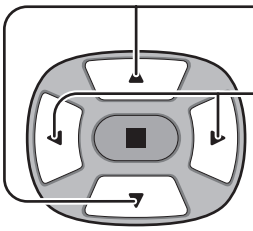
2



Press to select the SCREENSAVER.

Press to select the SCREENSAVER screen.

3 **NEGATIVE / SCROLL selection**

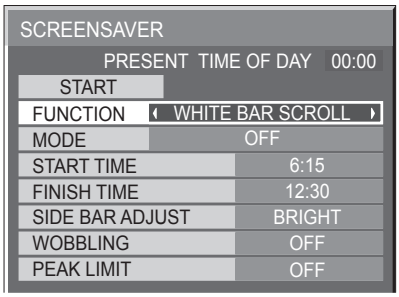


Press to select the FUNCTION.

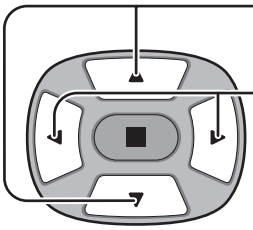
Press to select the desired function.

WHITE BAR SCROLL ⟷ NEGATIVE

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

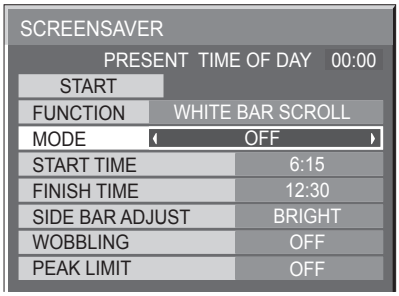


4 **MODE selection**



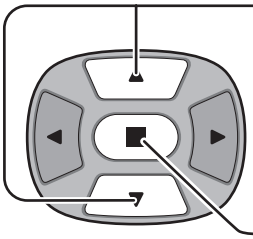
Press to select the MODE.

Press to select each mode items.

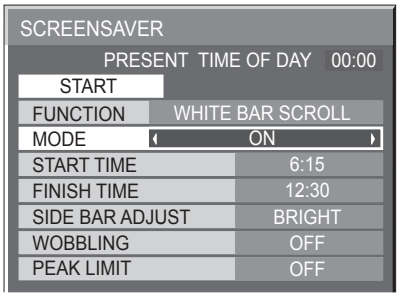


→OFF
↕
INTERVAL : Operates when SHOW DURATION and SAVER DURATION are set up and those times arrive.
↕
TIME OF DAY : Operates when START TIME and FINISH TIME are set up and those times arrive.
↕
→ON : Operates when START is selected and the ACTION (■) button is pressed.

5 **START setting**



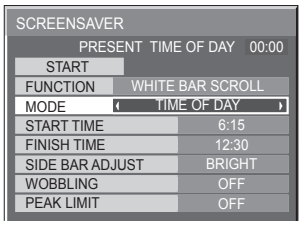
When the MODE is set to ON, press to select START.

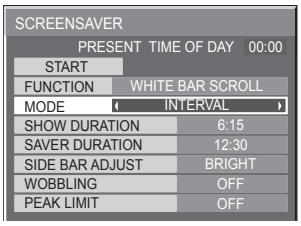


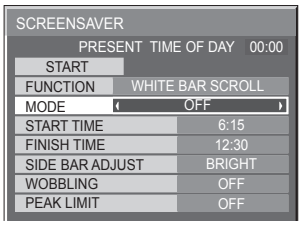
Press to start SCREENSAVER.
The menu screen will disappear and the SCREENSAVER will be activated. **To stop the SCREENSAVER under ON, press the R button.**

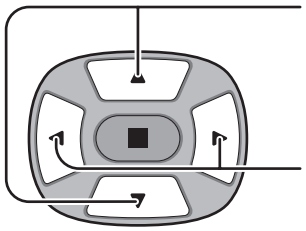
Setup of SCREENSAVER Time

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





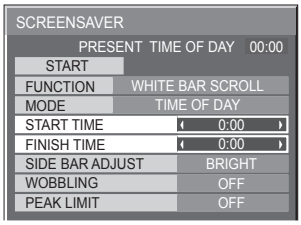


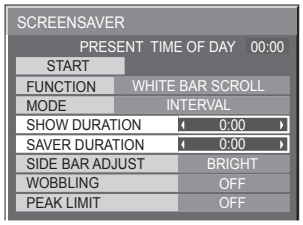


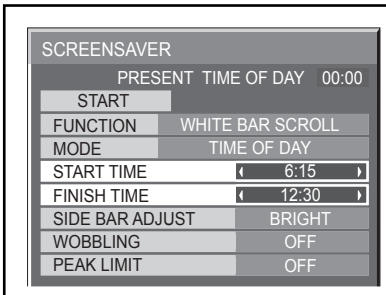
Press to select START TIME / FINISH TIME (When TIME OF DAY is selected).
Press to select SHOW DURATION / SAVER DURATION (When INTERVAL is selected).

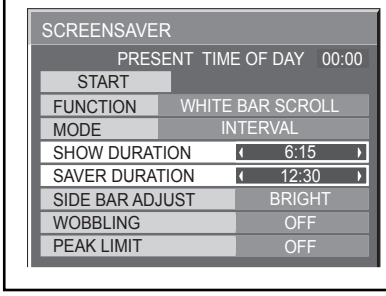
Press to setup.
► button: Forward
◄ button: Back

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









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

Reduces screen after-image

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

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.

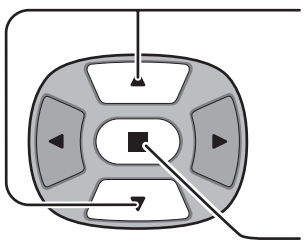
PEAK LIMIT: Suppresses image contrast (peak brightness).

Note: When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 38)

1

Press to display the SET UP menu.

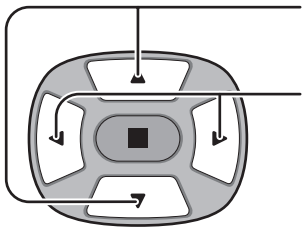
2



Press to select “SCREENSAVER”.

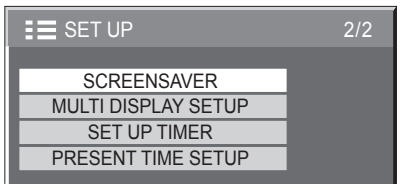
Press to display SCREENSAVER menu.

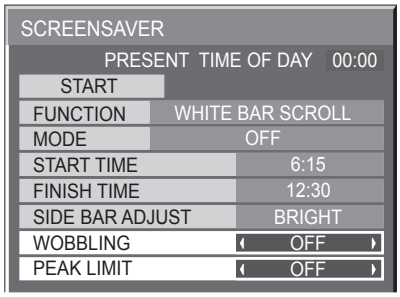
3



Press to select “WOBBLING” or “PEAK LIMIT”.

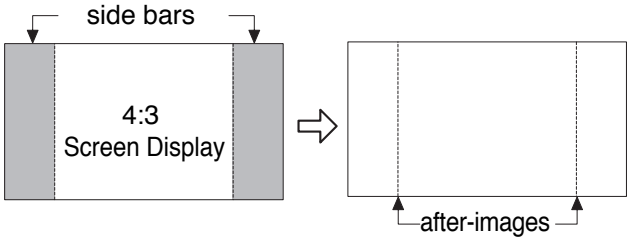
Press to select “ON” or “OFF”.



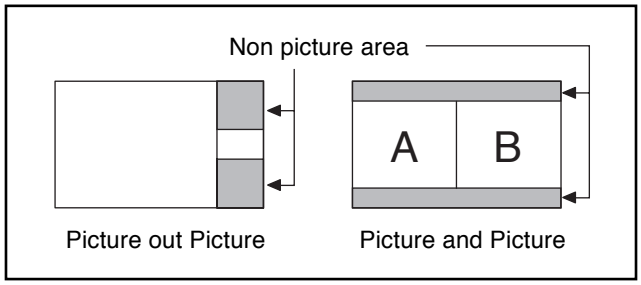


SIDE BAR ADJUST

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 bars on either side of the display field.
To reduce the risk of such an after-image, change the brightness of the side bars.

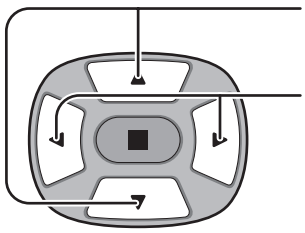


This function may be applicable to the non-picture area.



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

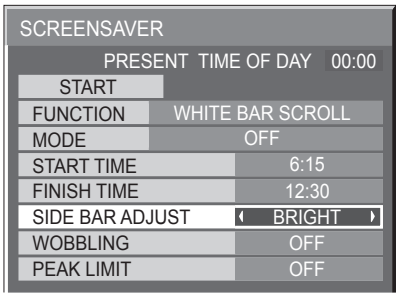
1



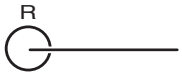
Press to select the SIDE BAR ADJUST.

Press to select OFF, DARK, MID, BRIGHT.

OFF ⟷ DARK ⟷ MID ⟷ BRIGHT



2



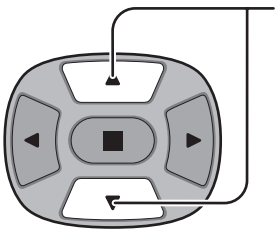
Press to exit from SCREENSAVER.

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

Reduces power consumption

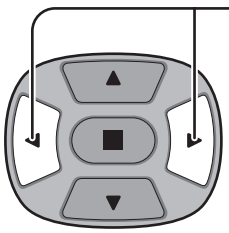
- POWER SAVE: When this function is turned ON, luminous level of the plasma display is suppressed, so power consumption is reduced.
- STANDBY SAVE: When this function is turned ON, power consumption of the microcomputer is reduced during power supply standby (see page 13-15), so standby power of the set is reduced.
- POWER MANAGEMENT: The unit power supply is turned ON or OFF depending on whether or not there is a signal during PC input mode.
  This function is enabled when it is turned ON. (Only during input from PC(Mini D-sub) terminal)
- AUTO POWER OFF: Equipment power supply is turned OFF when there is no signal.
  When this is set to On, the power supply of the unit goes Off 10 minutes after the input signals stop.
  This function is effective for input signals except input from PC (Mini D-sub) terminal.

1 Press to select
"POWER SAVE"
"STANDBY SAVE"
"POWER MANAGEMENT"
"AUTO POWER OFF".



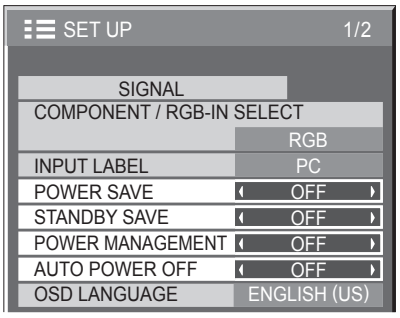
2 Press to select "ON" or "OFF".

ON ⟷ OFF



3

Press to exit from SET UP.



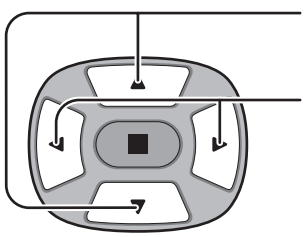
Note:
"POWER MANAGEMENT" and "AUTO POWER OFF" are effective during normal viewing (one picture screen) only.

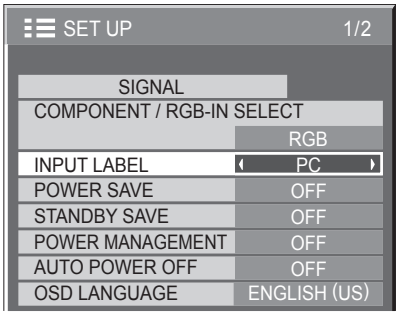
Customizing the Input labels

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

Press to select INPUT LABEL.

Press to change the INPUT LABEL.





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

INPUT LABELS for Slot 1 to Slot 3 and miniD-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 (MiniD-sub) input] PC/COMPONENT/RGB/DVD/STB

SET UP 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)

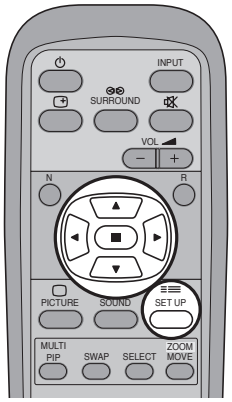
group of 9 (3 × 3)

group of 16 (4 × 4)

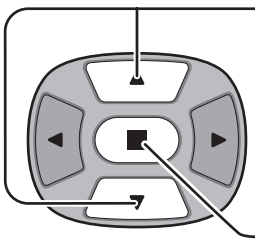
How to setup MULTI DISPLAY

1

Press to display the SET UP menu.

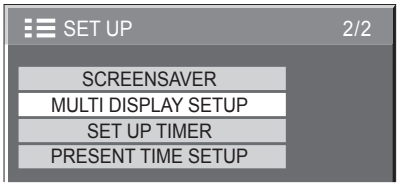


2

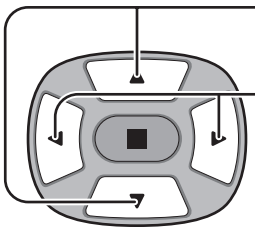


Press to select the MULTI DISPLAY SETUP.

Press to display the “MULTI DISPLAY SETUP” menu.

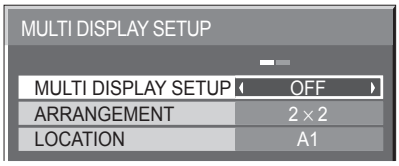


3



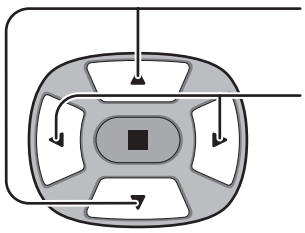
Press to select the MULTI DISPLAY SETUP.

Press to select “ON” or “OFF”.



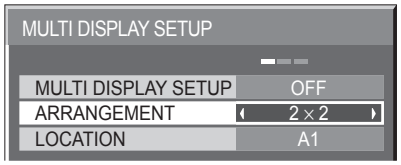
How to set the Display location number for each Plasma Display

4

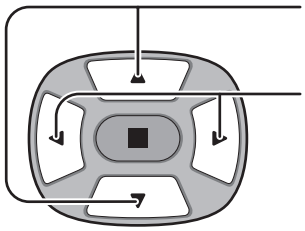


Press to select ARRANGEMENT (2nd step).

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

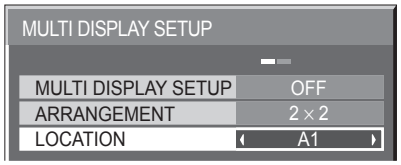


5



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)

A1	A2
B1	B2

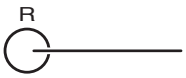
(3 × 3)

A1	A2	A3
B1	B2	B3
C1	C2	C3

(4 × 4)

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

6



Press twice to exit from SET UP.

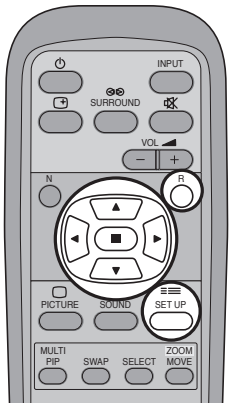
Notes:

- The multi-display capability is functional for the following component signals:
  525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 24p · 25p · 30p · 24sF, 750 (720) / 60p · 50p, 1250 (1080) / 50i
- The multi-display capability is functional for the following composite signals:
  NTSC, PAL, SECAM
- The MultiDisplay function does not display certain input signals from the terminals of the installed option boards listed below:
  Digital RGB input signals from the DVI terminal of RGB (Digital) Terminal Board (TY-42TM6D)

SET UP for Input Signals

COMPONENT / RGB IN SELECT

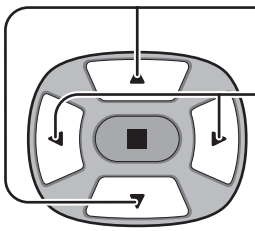
Select to match the signals from the source connected to the COMPONENT / RGB input terminals.
Y, P_B, P_R signals ⇨ "COMPONENT"
R, G, B, HD, VD signals ⇨ "RGB"



1

Press to display the SET UP menu.

2

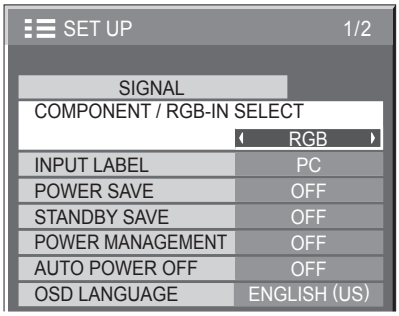


Press to select the "COMPONENT / RGB-IN SELECT".

Press to select the desired mode.
COMPONENT ⟷ RGB

3

Press to exit from adjust mode.

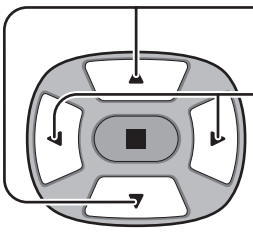


Note:
Selection may not be possible, depending on which optional board is installed.

3D Y/C FILTER – For NTSC AV images

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

1

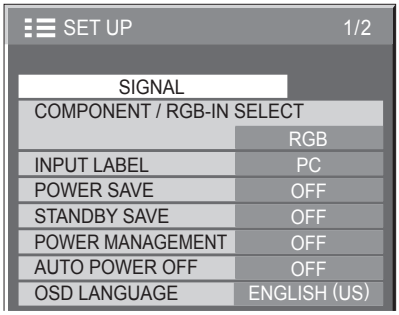


Press to select the "3D Y/C FILTER (NTSC)".

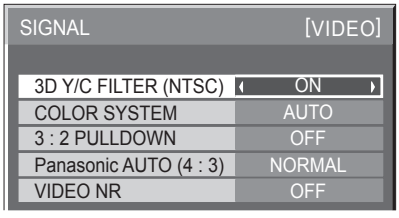
Press to set ON / OFF.

2

Press to exit from adjust mode.



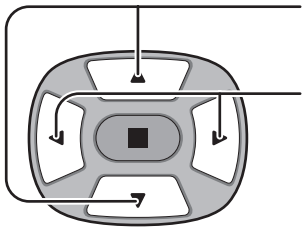
⇩ Press ACTION (■) button



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

COLOR SYSTEM / Panasonic AUTO

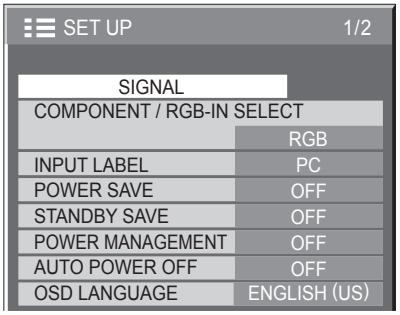
Select SIGNAL from the “SET UP” menu during VIDEO (S VIDEO) input signal mode.(“SIGNAL [VIDEO]” menu is displayed.)



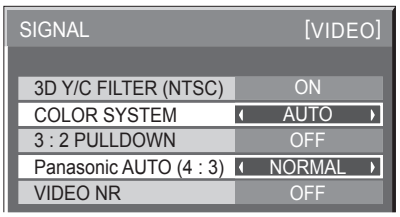
Press to select the “COLOR SYSTEM” or “Panasonic AUTO”.

Press to select each function.

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



⇩ Press ACTION (■) button

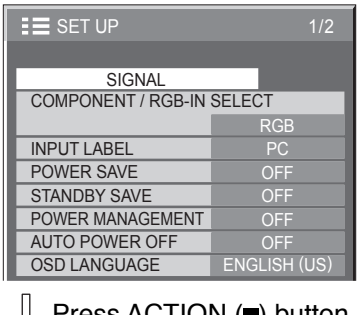


Mode	Function
COLOR SYSTEM	Set the color system to match the input signal. If set to “AUTO”, the color system is determined automatically. AUTO ⟷ PAL ⟷ SECAM ⟷ M.NTSC ⟷ NTSC
Panasonic AUTO (4:3)	Set to “NORMAL” to view 4:3 images in an unchanged format when Panasonic AUTO is selected. If you would like to view 4:3 images in Just format, set to “JUST”.

3:2 PULLDOWN / VIDEO NR

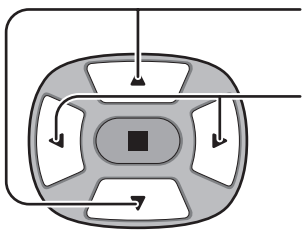
3:2 PULLDOWN: When ON, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.
If the picture is not stable, turn the setting to OFF.
Note:
When ON, this setting only affects the following signal input:
• NTSC / PAL signal input during “VIDEO (S VIDEO)” input signal.
• 525i(480i) 625i(575i), 1125(1080)/60i signal input during “COMPONENT” input signal.

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



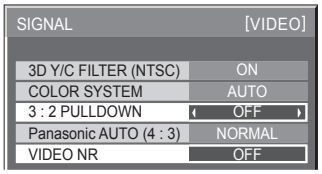
⇩ Press ACTION (■) button

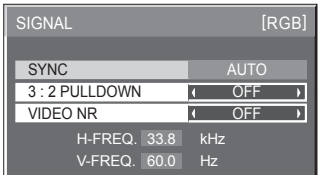
1



Press to select 3:2 PULLDOWN or VIDEO NR.

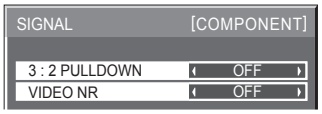
Press to set ON/OFF.

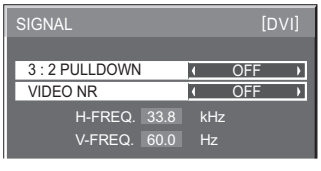




2

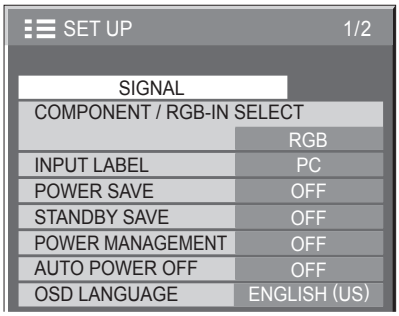
Press to exit from adjust mode.



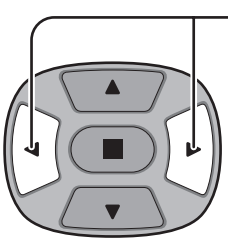


SYNC

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

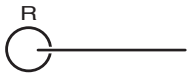


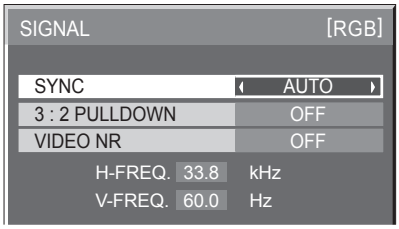
1



⇩ Press ACTION (■) button

2

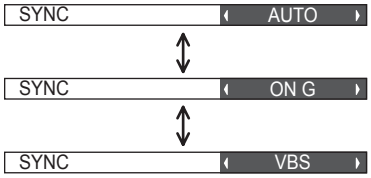




Setting RGB sync signal

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.

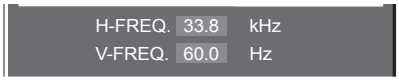


H-FREQ. (kHz) / V-FREQ. (Hz)

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

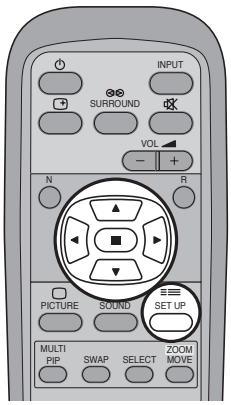
This display is valid only for RGB/PC and DVI input signal.
Display range:

Horizontal	15 - 110 kHz
Vertical	48 - 120 Hz



Shipping condition

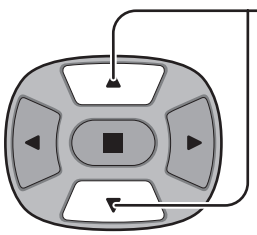
This function allows you to reset the unit to the factory setting.



1

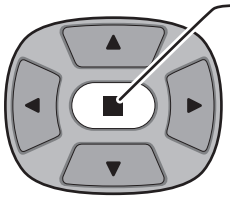
Press to display the SET UP menu.

2

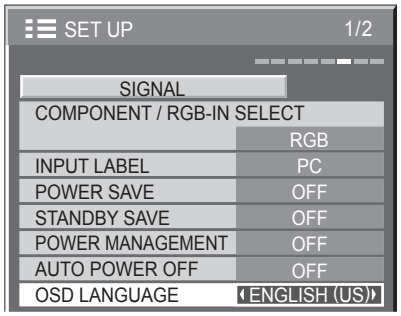


Press to select “OSD LANGEAGE”.

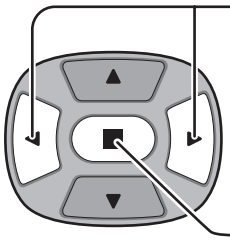
3



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 LANGEAGE”.

3 Press and hold the ENTER button till the SHIPPING menu is displayed.

4 Press the Volume Up“+” or Down“–” button to select “YES”.

5 Press the ENTER button.

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

Troubleshooting

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

Symptoms		Checks
Picture	**Sound**	
 Interference	 Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light
 Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the remote control.)
 No Picture	 No Sound	Not plugged into AC outlet Not switched on PICTURE and BRIGHTNESS/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
 No Picture	 Normal Sound	If a signal with a non-applicable 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) COLOR SYSTEM (see page 35)
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 "BRIGHT" or "MID" setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
 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-42PHD7UY, TH-50PHD7UY] 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.

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.

VIDEO/COMPONENT/RGB/PC input signals

VIDEO input [Applicable when Multi Screen and Digital Zoom]

	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 PC Input (D-sub 15P) (∗ Mark)

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	COMPONENT	RGB	PC	When Multi Screen and Digital Zoom
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	30.00	∗	∗	∗	∗
11	1,125 (1,080) / 25p	28.13	25.00	∗	∗	∗	∗
12	1,125 (1,080) / 30p	27.00	24.00	∗	∗	∗	∗
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 D-sub terminal, it is recognized as VGA 60Hz signal.
∗2: When inputted VGA 60Hz format signal from the other than D-sub terminal, it is recognized as 525p signal.
Note: Signals without above specification may not be displayed properly.

Specifications

		TH-37PWD7UY	TH-42PWD7UY
Power Source		120 V AC, 50/60 Hz	
Power Consumption			
	Maximum	225 W	290 W
	Stand-by condition	Save OFF 0.8 W, Save ON 0.5 W	Save OFF 0.8 W, Save ON 0.5 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			
	Temperatuer	32 °F - 104 °F (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 display 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)
	COMPONENT/RGB	Y/G (BNC) PB/B (BNC), PR/R (BNC) AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p/composite (75-ohm) 0.7 Vp-p/non-composite (75-ohm) 0.7 Vp-p (75-ohm) 0.5 Vrms (high impedance)
	PC	(HIGH-DENSITY D-SUB 15PIN) Component Y : PB/CB : PR/CR : AUDIO IN (M3 JACK)	R,G,B/0.7 Vp-p (75-ohm) 1.0 Vp-p (75-ohm : include sync) ± 0.35 Vp-p (75-ohm) ± 0.35 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	EUR646529	
	Batteries	2 × AA Size	
	Fixing bands	(TMME203 or TMME187) × 2	
	Ferrite core	J0KF00000018 × 1, J0KG00000054 × 2	
Dimensions (W × H × D)		36.2" (920 mm) × 21.7" (550 mm) × 3.5" (89 mm)	40.2" (1,020 mm) × 24" (610 mm) × 3.5" (89 mm)
Mass (weight)			
	main unit only	approx. 54.0 lbs	approx. 63.9 lbs
	with speakers	approx. 63.3 lbs	approx. 73.2 lbs

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

Specifications

	TH-42PHD7UY	TH-50PHD7UY
Power Source	120 V AC, 50/60 Hz	
Power Consumption		
Maximum	357 W	480 W
Stand-by condition	Save OFF 0.8 W, Save ON 0.5 W	Save OFF 0.8 W, Save ON 0.5 W
Power off condition	0.1 W	0.1 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		
Temperatuer	32 °F - 104 °F (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	XGA display 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)
COMPONENT/RGB	Y/G (BNC) PB/B (BNC), PR/R (BNC) AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p/composite (75-ohm) 0.7 Vp-p/non-composite (75-ohm) 0.7 Vp-p (75-ohm) 0.5 Vrms (high impedance)
PC	(HIGH-DENSITY D-SUB 15PIN) Component Y : PB/CB : PR/CR : AUDIO IN (M3 JACK)	R,G,B/0.7 Vp-p (75-ohm) 1.0 Vp-p (75-ohm : include sync) ± 0.35 Vp-p (75-ohm) ± 0.35 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	EUR646529	
Batteries	2 × AA Size	
Fixing bands	(TMME203 or TMME187) × 2	
Ferrite core	J0KF00000018 × 1, J0KG00000054 × 2	
Dimensions (W × H × D)	40.2" (1,020 mm) × 24" (610 mm) × 3.5" (89 mm)	47.6" (1,210 mm) × 28.5" (724 mm) × 3.7" (95 mm)
Mass (weight)		
main unit only	approx. 66.1 lbs	approx. 94.8 lbs
with speakers	approx. 75.4 lbs	approx. 104.9 lbs

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

Model Number _____ Serial Number _____

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