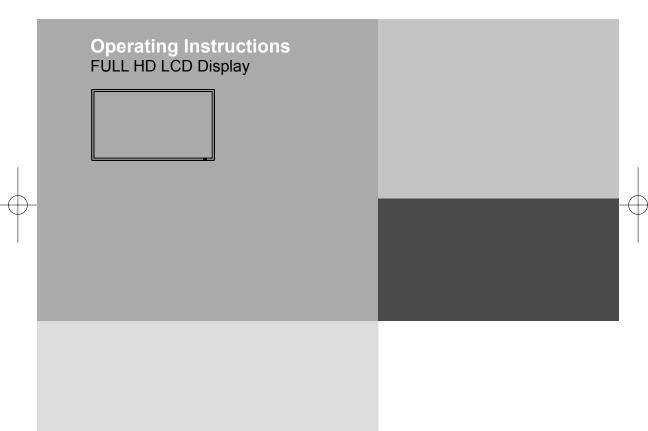
Panasonic

Model No.

TH-42LF5W TH-47LF5W



HDMI

English

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



Dear Panasonic Customer

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

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

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

Visit our Panasonic Web Site http://panasonic.net

Table of Contents

Important Safety Notice	;
Safety Precautions	٠
Accessories	
Accessories Supply	
Remote Control Batteries	
Connections	8
AC cord connection and fixing	
Video equipment connection	8
AUDIO OUT connection	9
HDMI connection	9
DVI-D IN connection	10
PC Input Terminals connection	1
SERIAL Terminals connection	12
Power On / Off	
Selecting the input signal	
Basic Controls	10
ASPECT Controls	18
Digital Zoom	19
On-Screen Menu Displays	
Adjusting Pos. /Size	
Picture Adjustments	
Advanced settings	
Sound Adjustment	2
Screensaver (For preventing image retention).	20
Setup of Screensaver Time	26

Wobbling	27
No activity power off	27
ECO Mode settings	28
Customizing the Input labels	29
Selecting the On-Screen Menu Language	30
Customizing the On-Screen Menu Display	30
Setup for MULTI DISPLAY	31
How to Setup MULTI DISPLAY	31
ID Remote Control Function	32
Setup for Input Signals	33
Component/RGB-in select	33
YUV/RGB-in select	33
Signal menu	34
Cinema reality	34
XGA Mode	35
Noise reduction	35
Sync	
HDMI Range	36
Input signal display	36
Options Adjustments	
Input Search	
Troubleshooting	40
Applicable Input Signals	41
Shipping condition	
Specifications	

Important Safety Notice

WARNING

- 1) To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
 - Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

No naked flame sources, such as lighted candles, should be placed on / above the set.

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

CAUTION

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

IMPORTANT INSTALLATION INFORMATION

If a display is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- · Using cabinets or stands recommended by the manufacturer of the display.
- · Only using furniture that can safely support the display.
- Ensuring the display is not overhanging the edge of the supporting furniture.
- Not placing the display on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the display to a suitable support.
- Not standing the displays on cloth or other materials placed between the display and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the display or its controls.

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- · Macintosh is a registered trademark of Apple Inc., USA.
- SVGA, XGA, SXGA and UXGA are registered trademarks of the Video Electronics Standard Association.
 Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Note

Image retention may occur. If you display a still picture for an extended period, the image might remain on the screen. However, it will disappear after a while.

Safety Precautions

WARNING

■ Setup

<u>This LCD 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 Panasonic Corporation.)

PedestalTY-ST42P50

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

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

Do not place the Display on sloped or unstable surfaces, and ensure that the Display does not hang over the edge of the base.

· The Display may fall off or tip over.

Do not place any objects on top of the Display.

• If water is spills onto the 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 Display, please consult your local Panasonic dealer.

Transport only in upright position!

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

Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.

For sufficient ventilation;

Leave a space of 10 cm or more at the top, left and right, and 5 cm or more at the rear, and also keep the space between the bottom of the display and the floor surface.

Cautions for Wall Installation

- Wall installation should be performed by an installation professional. Installing the Display incorrectly may lead to
 an accident that results in death or serious injury. Furthermore, when installing on a wall, a wall hanging bracket
 that conforms to VESA standards (VESA 400 × 400) must be used.
- · When installing the Display vertically, be sure to install the power indicator onto the bottom of the Display.

Do not install the product to a place where the product is exposed to direct sunlight.

• If the screen is exposed to direct sunlight, the liquid crystal panel may have adverse effect.

■ When using the LCD Display

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

Do not cover the ventilation holes.

· Doing so may cause the Display to overheat, which can cause fire or damage to the Display.

Do not stick any foreign objects into the Display.

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

Do not remove the cover or modify it in any way.

High voltages which can cause severe electric shocks are present inside the Display. For any inspection, adjustment
and repair work, please contact your local Panasonic dealer.

Ensure that the mains plug is easily accessible.

An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.

Do not use any power supply cord other than that provided with this unit.

· Doing so may cause fire or electric shocks.

Securely insert the power supply plug as far as it will go.

 If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket is loose, they shall not be used.

Do not handle the power supply plug with wet hands.

· Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.

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

If the Display is not going to be used for any prolonged length of time, unplug the power supply plug from the wall outlet.

■ If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odour starts to come out from the Display, immediately unplug the power supply plug from the wall outlet.

• If you continue to use the Display in this condition, fire or electric shock could result. After checking that the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing the Display yourself is extremely dangerous, and shall never be done.

If water or foreign objects get inside the Display, if the Display is dropped, or if the cabinet becomes damages, disconnect the power supply plug immediately.

· A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.

Safety Precautions



■ When using the LCD Display

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

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

Be sure to disconnect all cables before moving the Display.

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

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

· Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it becoming dusty.

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

Do not burn or breakup batteries.

• Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

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

Usage of a chemical cloth

- Do not use a chemical cloth for the panel surface.
- Follow the instructions for the chemical cloth to use it for the cabinet.

Accessories

Accessories Supply

Check that you	have the accessories and i	tems shown
Operating Instruction book	Remote Control Transmitter N2QAYB000691	Batteries for the Remote Control Transmitter (R6 Size × 2)
Panasonic	C 000	
Payer symply cord	Powers.	
Power supply cord		

Remote Control Batteries

Requires two R6 batteries.

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

2. Insert batteries - note correct polarity (+ and -).

3. Replace the cover.







Helpful Hint:

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

A Precaution on battery use

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

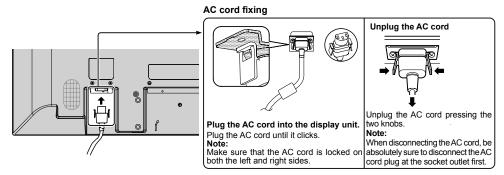
Observe the following precaution:

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

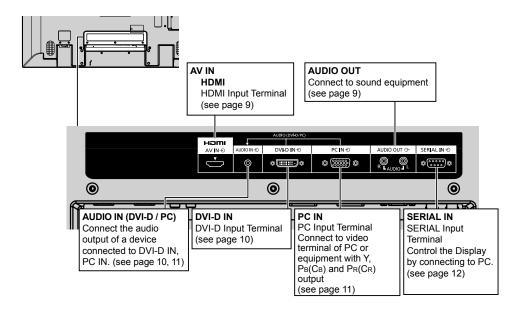
Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Connections

AC cord connection and fixing



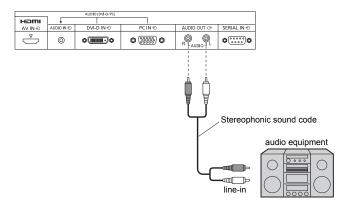
Video equipment connection



AUDIO OUT connection

Note:

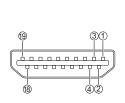
Additional equipment and cables shown are not supplied with this set.

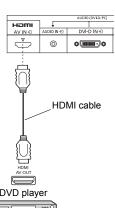


HDMI connection

[Pin assignments and signal names]

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

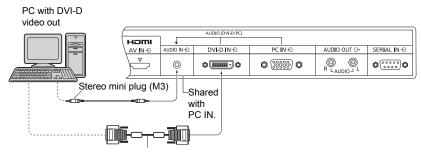




Note:

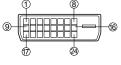
Additional equipment and HDMI cable shown are not supplied with this set.

DVI-D IN connection



DVI-video cable with Ferrite core (Within 5 m)

DVI-D Input Connector Pin Layouts



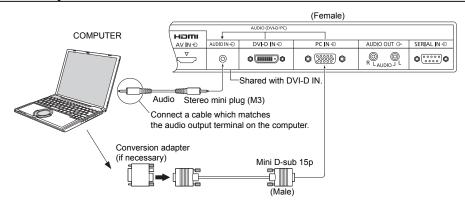
Connection port view

Pin No.	Signal Name	Pin No.	Signal Name
1	T.M.D.S. data 2-	13	
2	T.M.D.S. data 2+	(14)	+5 V DC
3	T.M.D.S. data 2 shield	15)	Ground
4			Hot plug detect
(5)		17	1.M.D.S. data 0-
6	DDC clock	(18)	T.M.D.S. data 0+
7	DDC data	19	T.M.D.S. data 0 shield
8		20	
9	T.M.D.S. data 1-	21)	
10	T.M.D.S. data 1+	22	T.M.D.S. clock shield
11)	T.M.D.S. data 1 shield	23	T.M.D.S. clock+
(12)		(24)	T.M.D.S. clock-

Notes:

- Additional equipment and cables shown are not supplied with this set.
- Use the DVI-D cable with Ferrite core complying with the DVI standard. Image deterioration may occur depending on the length or the quality of the cable.

PC Input Terminals connection



Notes:

- Computer signals which can be input are those with a horizontal scanning frequency of 30 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 1,440 × 1,080 dots when the aspect mode is set to "4:3", and 1,920 × 1,080 dots when the aspect mode is set to "16:9". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will
 need to make setting changes to the computer at the time of connection.
- · Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- · Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the "Component/RGB-in select" setting in the "Setup" menu to "Component" (when Component signal connection) or "RGB" (when RGB signal connection). (see page 33)

Signal Names for Mini D-sub 15P Connector

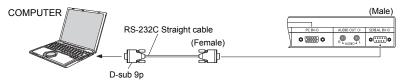
(5) (4) (3) (2) (1)	
000000	
(15 (14 (13 (12 (11))))	

Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name Pin No.		Signal Name
1	R (Pr/Cr)	6	GND (Ground)	11)	NC (not connected)
2	G (Y)	7	GND (Ground)	12	SDA
3	В (Рв/Св)	8	GND (Ground)	13	HD/SYNC
4	NC (not connected)	9	+5 V DC	14)	VD
(5)	GND (Ground)	10	GND (Ground)	15)	SCL

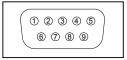
SERIAL Terminals connection

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



Notes:

- Use the RS-232C straight cable to connect the computer to the Display.
- · The computer shown is for example purposes only.
- · Additional equipment and cables shown are not supplied with this set.



Pin layout for SERIAL Terminal

The SERIAL terminal conforms to the RS-232C interface specification, so that the 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	-

Signal names for SERIAL IN terminal

oighar hames for outline in terminar			
Pin No.	Details		
2	RXD		
3	TXD		
4	DTR		
(5)	GND		
6	DSR		
⑦ ⑧	(Shorted in this set)		
1.9	NC		

These signal names are those of computer specifications.

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.
- Consult an Authorized Service Center for detail instructions on command usage.

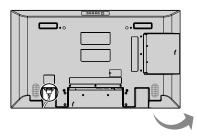
Command

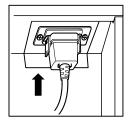
Command		
Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	***	Volume 000 - 100
ANAT	0	Audio MUTE OFF
AMT	1	Audio MUTE ON
IMS	None HM1 DV1 PC1	Input select (toggle) HDMI input (HDMI) DVI-D IN input (DVI) PC IN input (PC)
DAM	None ZOOM FULL NORM ZOM2	Screen mode select (toggle) Zoom1 16:9 4:3 Zoom2

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

Power On / Off

Connecting the AC cord plug to the Display.





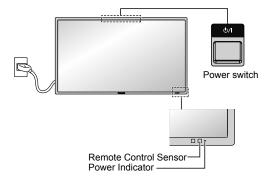
Connecting the plug to the Wall Outlet

Notes:

- Main plug types vary between countries. The power plug shown at right may, therefore, not be the type fitted to your set.
- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

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

Power Indicator: Green





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

Power Indicator: Red (standby)

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

Power Indicator: Green

Turn the power to the Display off by pressing the \circlearrowleft/I switch on the unit, when the 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.

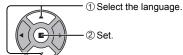


Power On / Off

When first switching on the unit

Following screen will be displayed when the unit is turned on for the first time. Select the item with the remote control. Unit buttons are invalid.

OSD Language





Notes:

- Once the item is set, the screen won't be displayed when switching on the unit next time.
- After the setting, the items can be changed in the following menu.
 OSD Language (see page 30)

Power ON warning message

The following message may be displayed when turning the unit power ON:

No activity power off Precautions

'No activity power off' is enabled.

If "No activity power off" in Setup menu is set to "Enable", a warning message is displayed every time the power is turned ON. (See page 27)

If you do not need this display, the settings of "Power On Message" in Options menu can relieve you of it. (See page 38)

Selecting the input signal

INPUT

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

Input signals will change as follows:

$$\rightarrow$$
 HDMI \rightarrow PC* \rightarrow DVI $-$

HDMI: HDMI input terminal in AV IN (HDMI).

PC: PC input terminal in PC IN.

DVI: DVI input terminal in DVI-D IN.

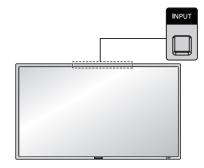
 * "PC" may be displayed as "PC [YPBPR]" depending on the setting of

"Component/RGB-in select". (see page 33)



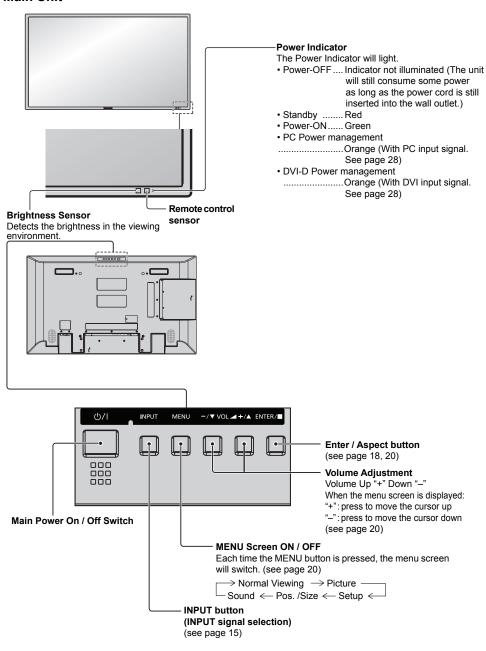
Notes:

- Selecting is also possible by pressing the INPUT button on the unit
- Select to match the signals from the source connected to the PC input terminals. (see page 33)

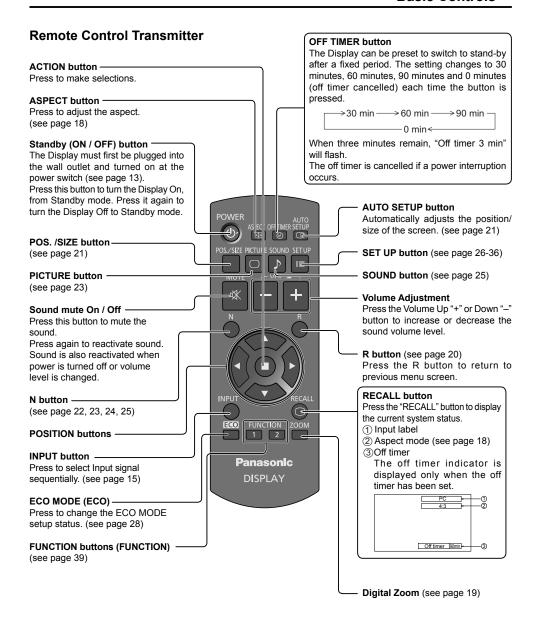


Basic Controls

Main Unit



Basic Controls

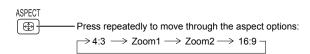


ASPECT Controls

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

Note:

Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the aspect mode select function to shrink or expand the picture, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other people for commercial purposes without the prior permission of the copyright holder.





[from the unit]



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

Note:

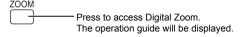
The aspect mode is memorized separately for each input terminal.

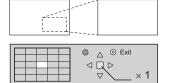
Aspect mode	Picture → Enlarged screen	Description
16:9		The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.
4:3	•	Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. Side panels are displayed at the left and right edges of the screen.
	•	The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are displayed with their original aspect ratio. The left and right edges of the pictures are masked with side panels.
Zoom1	•	Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges of the pictures are cut off.
Zoom2		Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.

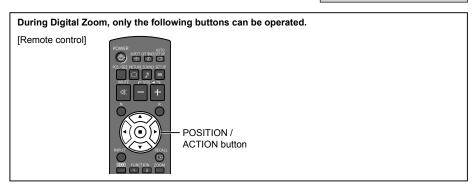
Digital Zoom

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

1 Display the operation guide.





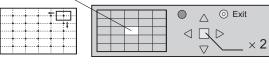


2 Select the area of the image to be enlarged.



Press on the enlargement location to select.





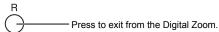
3 Select the magnification required for the enlarged display.



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



4 Return to normal display (quit Digital Zoom).



Notes:

- $\bullet \ \ \text{When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.}$
- The Digital Zoom function cannot be selected while in the following operation state: When MULTI DISPLAY Setup is On (see page 31).
 When Screensaver is running (see page 26)
- While Digital Zoom is in operation, "Adjusting Pos. / Size" cannot be used.

On-Screen Menu Displays

Remote Control

Unit

1 Display the menu screen.

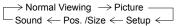


(Example: Picture menu)



Press several times.

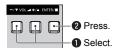
Each time the MENU button is pressed, the menu screen will switch.



2 Select the item.

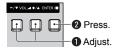






3 Set.





4 Exit the menu.



Press () to return to the previous menu.



Press several times.

Menu display list

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

Picture menu



See page 23, 24

Setup men



и			
·			



See page 26-36

Pos./Size menu

Normalise Normal	
Auto Setup	
H-Pos	0
H-Size	0
V-Pos	0
V-Size	0
Clock Phase	0
Dot Clock	0
1:1 Pixel Mode	(Off

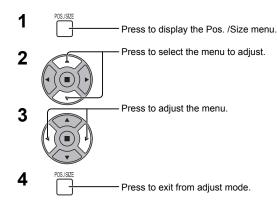
See page 21, 22

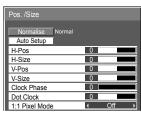
Sound menu

→ Sound	1/2
Normalise Normal	
Sound Mode	Normal →
Bass	0
Treble	0
Balance	0
Surround	1 Off

See page 25

Adjusting Pos. /Size





Notes:

Unadjustable items are grayed out.

Adjustable items differ depending on the input signal and the display

Note

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.

Auto Setup H-Pos/V-Pos, H-Size/V-Size, Dot Clock and Clock Phase are automatically adjusted when the PC signal is received.

This setting only operates when a PC signal is input, "Component/RGB-in select" is "RGB" and the aspect is "16:9".

Using Remote Control



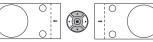
When SETUP on the remote control is pressed, "Auto Setup" will be executed. When Auto Setup does not work, "Invalid" is displayed.

Notes:

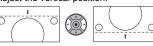
- Auto Setup may not work when a cropped or dark image is input. In such case, switch to a bright image with borders and other objects are clearly shown, and then try auto setup again.
- Depending on the signal, out of alignment may occur after Auto Setup. Carry out fine tuning for the position/size as required.
- If Auto Setup cannot set properly for vertical frequency 60Hz XGA signal (1024×768@60Hz and 1366×768@60Hz), pre-selecting the individual signal in "XGA Mode" (see page 35) may results in correct Auto Setup.
- Auto Setup does not work well when a signal such as additional information is superimposed out of valid image period or intervals between synchronizing and image signals are short.
- If Auto Setup cannot adjust correctly, select "Normalise" once and press ACTION (
), then adjust Pos. /Size manually.
- If the picture goes off screen in the horizontal direction as a result of performing Auto Setup, perform Dot Clock adjustment.

Adjusting POS. /SIZE

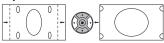
H-Pos Adjust the horizontal position.



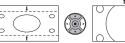
V-Pos Adjust the vertical position.



H-Size Adjust the horizontal size.



V-Size Adjust the vertical size.





Clock (PC IN terminal (when "Component/RGB-in select" is set to "RGB"))

Phase Eliminate the flickering and distortion.

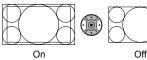
Dot Clock (PC IN terminal (when "Component/RGB-in select" is set to "RGB"))

Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

Over scan Turn image over scan On/Off.

Configurable signals are as follows:

525i, 525p, 625i, 625p, 750/60p, 750/50p (Component Video, DVI, HDMI)



Notes:

- "Off" is effective during only "16:9" aspect mode.
- · When "Off" is set, "H-Size" and "V-Size" cannot be adjusted.

1:1 Pixel Mode

Adjusts the display size when 1125i or 1125p signal is input.

- "On" is effective during only "16:9" aspect mode.
- Select On when you would like to replay 1920 × 1080 input signal.
- · Applicable input signal;
- 1125 (1080) / 50i \cdot 60i \cdot 24sF \cdot 24p \cdot 25p \cdot 30p \cdot 50p \cdot 60p
- · Select Off when flickering is shown around the image.
- · H-Size and V-Size cannot be adjusted when On is selected.







/ Normalise Normalisation) Helpful Hint (🦳

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

Picture Adjustments

- 1 PICTURE Press to display the Picture menu.
- 2 Select to adjust each item.

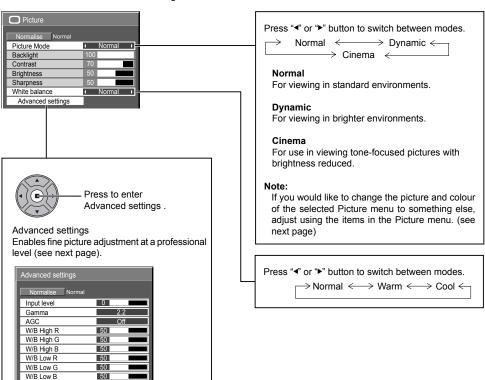


Press to select the menu to adjust.

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

Note:

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



Helpful Hint (Normalise Normalisation)

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

Picture Adjustments

Item	Effect Adjustments		
Backlight	Darker	Brighter	Adjusts luminance of the back light.
Contrast	Less	More	Selects the proper brightness and density for the room.
Brightness	Darker	Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
Sharpness	Less	More	Adjusts picture sharpness.

Notes:

- · You can change the level of each function (Backlight, Contrast, Brightness, Sharpness) for each Picture Mode.
- · The setting details for normal, dynamic and cinema respectively are memorized separately for each input terminal.
- · "Backlight" can be adjusted when "ECO Mode" is set to "Custom" and "Power save" to "Off". (see page 28)

Advanced settings

Item	Eff	fect	Details	
Input level	Less	More	Adjustment of parts which are extremely bright and hard to see.	
Gamma	Down	Up	S Curve \longleftrightarrow 2.0 \longleftrightarrow 2.2 \longleftrightarrow 2.6	
AGC	Off	On	Increases the brightness of dark signal automatically.	
W/B High R	Less	More	Adjusts the white balance for light red areas.	
W/B High G	Less	More	Adjusts the white balance for light green areas.	
W/B High B	Less	More	Adjusts the white balance for light blue areas.	
W/B Low R	Less	More	Adjusts the white balance for dark red areas.	
W/B Low G	Less	More	Adjusts the white balance for dark green areas.	
W/B Low B	Less	More	Adjusts the white balance for dark blue areas.	

Notes:

- · Carry out "W/B" adjustment as follows.
 - 1. Adjust the white balance of the bright sections using the "W/B High R", "W/B High G" and "W/B High B" settings.

 2. Adjust the white balance of the dark sections using the "W/B Low R", "W/B Low G" and "W/B Low B" settings.

 - 3. Repeat steps 1 and 2 to adjust.
- Steps 1 and 2 affect each other's settings, so repeat each step in turn to make the adjustment.
- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.

Helpful Hint () / Normalise Normalisation)

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

Sound Adjustment

1 SOUND Press to display the Sound menu.

? Select to adjust each item.

Press to select the menu to adjust.

Select the desired level by listening to the sound.

3 SOUND Press to exit from adjust mode.

Item	Details
Sound Mode	Normal: Emits the original sound. Dynamic: Accentuates sharp sound. Clear: Attenuates human voice.
Bass	Adjusts low pitch sounds.
Treble	Adjusts high pitch sounds.
Balance	Adjusts left and right volumes.
Surround	On: Stereo sound reproduction is active. Off: Stereo sound reproduction is not active.

Note: Bass, Treble and Surround settings are memorized separately for each Sound Mode.

Helpful Hint (Normalise Normalisation)

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

Screensaver (For preventing image retention)

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.

When the screen saver is operating, the following 5 patterns are displayed full screen for 5 seconds each.

Black→Dark Gray→Gray→Light Gray→White



Press to display the Setup menu.



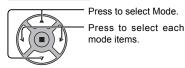
Press to select Screensaver.

Press to display Screensaver menu.





Mode selection





Off

On

: Operates when Periodic Time and Operating Time are setup and those times arrive. Standby after SCR Saver: Operates while Screensaver duration, and

display enters standby mode.

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

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 or any buttons on the main unit.

Note: When the display is turned off, the Scrensaver will be deactivated.

Setup of Screensaver Time

After selecting Interval or Standby after SCR Saver, 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 Periodic Time / Operating Time (When Interval is selected).

Press to select Screensaver duration

(When Standby after SCR Saver is selected).

Press to setup.

button: Forward

◆ button: Back





Notes:

- Pressing "◄" or "▶" button once changes the Time 1 minute. [However, switching occurs every 15 minutes when Periodic Time is selected.]
- Pressing "◀" or "▶" button continuously changes the Time by 15 minutes.
- "Screensaver duration" of the "Standby after SCR Saver" can be set from 0:00 to 23:59. When this is set to "0:00", " Standby after SCR Saver" will not be activated.

Wobbling

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

Press to display the Setup menu.

Press to select "Wobbling".

— Press to select "On" or "Off".

On: Shifts the position of the display image on a fixed time interval.

3 SET UP Press to exit from adjust mode.



Notes:

- If "MULTI DISPLAY Setup" is set to "On", this function does not operate.
- · When this function is operating, part of the screen may appear to be missing.

No activity power off

1 SET UP Press to display the Setup menu.

Press to select the menu to adjust.



Press to select "Enable" or "Disable".

Press to exit from Setup.

When this function is set to "Enable", the power is turned off (standby) automatically when there is no operation of the Display for 4 hours.

Starting from 3 minutes before the turn off, the remaining time will be displayed.



When the power is turned off due to this function, a message "Last turn off due to 'No activity power off'." is displayed next time the power is turned on.

Note:

During the screensaver is running, this function is disabled.

ECO Mode settings



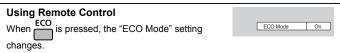
ECO Mode

Custom: The menu of power consumption reduction is individually set.

On: The following fixed values are set to the menu of power consumption reduction. Individual setting is not available.

No Signal power off: Enable PC Power management: On DVI-D Power management: On

Power save: Sensor



Custom settings

The menu of the power consumption reduction is individually set. This setting is enabled when "ECO Mode" is set to "Custom".

No signal power off

Equipment power supply is turned Off when there is no signal.

When this is set to "Enable", the power supply of the unit goes Off 10 minutes after the input signals stop.

PC Power management

When this function is set to On, it operates under the following conditions to turn the power on or off automatically. When no pictures (HD/VD sync signals) are detected for 30 or so seconds during PC signal input:

→ Power is turned off (standby); the power indicator lights up orange.

When pictures (HD/VD sync signals) are subsequently detected:

→ Power is turned on; the power indicator lights up green.

Notes.

- · This function operates only during input from PC IN terminal.
- This function is effective when "Sync" is set to "Auto", "Component / RGB-in select" is set to "RGB" and during normal viewing.

DVI-D Power management

When this function is set to On, it operates under the following conditions to turn the power on or off automatically. When no pictures (sync signal) are detected for 30 or so seconds during DVI signal input:

→ Power is turned off (standby); the power indicator lights up orange.

When pictures (sync signal) are subsequently detected:

→ Power is turned on; the power indicator lights up green.

Note:

This function operates only during DVI signal input.

Power save

This function adjusts the brightness of the backlight to reduce power consumption.

Off: This function does not operate.

On: Backlight brightness is reduced.

Sensor: The backlight brightness is automatically adjusted according to the viewing environment.

Note:

When this function is set to "On" or "Sensor", the "Backlight" setting in the Picture menu is disabled.

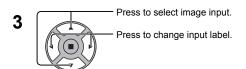
Customizing the Input labels

This function can change the label of the Input signal to be displayed. (see page 15)

Press to display the Setup menu.

Press to select Input label.

Press to display the Input label menu.





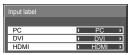


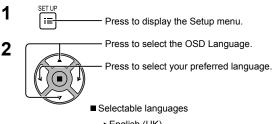
Image input Input label

[PC] PC* / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip) [DVI] DVI / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip) HDMI / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip) [HDMI]

(Skip): The INPUT button press will skip its input.

^{* &}quot;PC" may be displayed as "PC [YPBPR]" depending on the setting of "Component/RGB-in select". (see page 33)

Selecting the On-Screen Menu Language







Customizing the On-Screen Menu Display

Set the display time and background transparency of the on-screen menu display.

1 set up := Press to display the Setup menu.

Press to select "Menu Display Duration".

Press to adjust the display duration.



Press to select "Menu Transparency".

Press to adjust the transparency.

Press to exit from adjust mode.

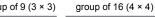
Setup for MULTI DISPLAY

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

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

(Example















How to Setup MULTI DISPLAY

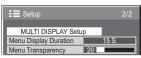
Press to display the Setup menu.

Press to select the MULTI DISPLAY Setup.

Press to display the MULTI DISPLAY Setup menu.

Press to select the MULTI DISPLAY Setup.

Press to select "On" or "Off".



MULTI DISPLAY Setup			
MULTI DISPLAY Setup	4	Off	
Horizontal Scale	4	1	\rightarrow
Vertical Scale	1	1	
Bezel H Adjustment	10		
Bezel V Adjustment	10		
Location	•	A1	-)

Item	Deta	Details								
MULTI DISPLAY Setup	Select "On" or "Off".	Select "On" or "Off".								
Horizontal Scale	Select "1", "2", "3", "4", "5".	Select "1", "2", "3", "4", "5".								
Vertical Scale	Select "1", "2", "3", "4", "5".									
	Areas of the image that are hidden by the joir vertically (0~100).	Areas of the image that are hidden by the joint sections are adjusted both horizontally and vertically $(0\sim100)$.								
	To show joints between displays.	To hide joints between displays.								
Bezel H Adjustment Bezel V Adjustment	, site	ton.								
Bozof C Adjustment	Exar nple	Exa ple								
	Suitable for still image display.	Suitable for moving image display.								
	Setting value: 0	Setting value: 100								

Setup for MULTI DISPLAY

Item		Details														
	Select the r	equir	ed an	ranger	nent	numb	er. (A	1-E5	: Ref	er to t	he foll	owing	J)			
	Display N	Display Number locations for each arrangement.														
	(Example:	s)														
	(2×1)	(2)	× 3)		(4:	×2)			(4	×4)			(5 × 5	5)	
Location	A1 A2	A1	A2	A1	A2	A3	A4	A1	A2	А3	A4	A1	A2	А3	A4	A5
		В1	B2	B1	B2	В3	B4	В1	B2	В3	B4	B1	B2	В3	B4	B5
		C1	C2					C1	C2	СЗ	C4	C1	C2	С3	C4	C5
								D1	D2	D3	D4	D1	D2	D3	D4	D5
												E1	E2	E3	E4	E5

4 SET UP
Press to exit from Setup.

ID Remote Control Function

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

Note:

To operate this function, please purchase ID remote controller sold separately. Object model: EUR7636070R

- Switch or to on the right side.
- 2 Press the C button on the remote control.
- **3** Press one of 1 9, 0 for the tens digit setting.
- 4 Press one of 1 9, 0 for the units digit setting.

Notes:

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

ID remote control button operation

The operation is the same as normal remote control except for the $\begin{bmatrix} \ddots \\ y \end{bmatrix}$ button.

ID Cancellation

Press $\stackrel{\text{\tiny DALL}}{\checkmark -}$ button on remote control. (This has the same effect as pressing the $\stackrel{\text{\tiny DSST}}{\mathbb{C}}$, $\stackrel{\text{\tiny DSST}}{\mathbb{C}}$, $\stackrel{\text{\tiny DSST}}{\mathbb{C}}$) buttons at the same time.)

Notes

- Set the Remote ID "On" to operate the ID remote control.
 If Remote ID is set to "On", you can use the remote control without identical ID number during option menu display.
 (see page 38)
- The ID remote control cannot be used when ID select is set to anything other than 0, and the remote control ID is not the same as the ID select number (see page 38).



Setup for Input Signals

Component/RGB-in select

Select to match the signals from the source connected to the PC IN terminal. Y, P_B , P_R signals \Longrightarrow "Component" RGB signals \Longrightarrow "RGB"

- Press to select the "Component/RGB-in select".

 Press to select the desired input signal.

 Component
 RGB
- 3 SET UP
 Press to exit from adjust mode.



YUV/RGB-in select

Select to match the signals from the source connected to DVI-D IN terminal. YUV signals ⇒ "YUV" RGB signals ⇒ "RGB"

- Press to display the Setup menu.
- Press to select the "YUV/RGB-in select".

 Press to select the desired mode.

 YUV
 RGB
- 3 SET UP | III | Press to exit from adjust mode.

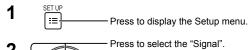


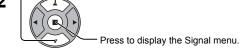
Setup for Input Signals

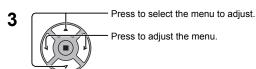
Signal menu

Note:

"Signal" setup menu displays a different setting condition for each input signal.











Press ACTION (■) button
 For RGB



For Component



For Digital



Cinema reality

Cinema reality:

When on, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second. If the picture is not stable, turn the setting to off.

Note:

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

• 525i (480i), 625i (575i), 1125 (1080) / 60i signal input during Component input signal.



Press to select Cinema reality.
Press to set On / Off.



Noise reduction

XGA Mode

This menu is displayed when the PC IN input signal is selected. This menu sets two types of XGA signals with 60Hz vertical frequency having different aspect ratios and sampling rates ($1,024 \times 768 \otimes 60$ Hz and $1,366 \times 768 \otimes 60$ Hz). When a $1,280 \times 768 \otimes 60$ Hz input signal is automatically detected, the image is processed as a $1,280 \times 768 \otimes 60$ Hz XGA input signal irrespective of this setting.



Press to select "XGA Mode".

Press to select "1024×768", "1366×768".

XGA Mode (1024 × 768)

Note:

After making this setting, be sure to make each adjustment (such as "Auto Setup") on the "Pos. /Size" menu as necessary. (see page 21)

Noise reduction



Press to select "Noise reduction".

Press to select "Off", "Auto", "Min", "Mid", "Max".

Auto: Noise reduction will be automatically selected from "Min", "Mid" or "Max".

Note:

Noise reduction can be adjusted while a Component signal from PC IN terminal is being applied.

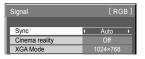
Sync

This function operates only during input from PC IN terminal.



Press to select the "Sync".

Press to adjust.



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 is automatically selected. If both input, it is selected the H and V sync. However, the synchronized signal that is input first is selected.

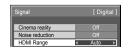
¥

on G: Uses a synchronized signal on the Video G signal, which is input from the G connector.

Setup for Input Signals

HDMI Range

Switches the dynamic range according to the input signal from HDMI terminal.





Press to select "HDMI Range".

Press to select "Video(16-235)", "Full(0-255)", "Auto".

Video(16-235): If the input signal is the video range, Example: HDMI terminal output for DVD player Full(0-255): If the input signal is full range, Example: HDMI terminal output for personal computer Auto: Switches the dynamic range automatically between "Video(16-235)" and "Full(0-255)" according to the input signal. Note:

This function can be set only for HDMI signal input.

Input signal display

Displays the frequency and the type of the current input signal.

Display range:

Horizontal 30 - 110 kHz Vertical 48 - 120 Hz

The dot clock frequency is displayed during digital signal input.

Note:

The automatically detected signal format may be displayed differently than the actual input signal.





Options Adjustments



Press to select "OSD Language".

Press for more than 3 seconds.

Press to select "Options".

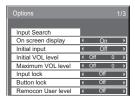
Options
Shipping

Press to display the Options menu.

Press to select your preferred menu.

Press to adjust the menu.

Fress to exit from Options menu.



Options			2/3
Off-timer function		Enable	—
Initial Power Mode	-	Normal)
ID select	1	0	\rightarrow
Remote ID		Off	
Serial ID		Off	\rightarrow
Studio W/B		Off	-

Options	3/3
Power ON Screen Delay	Off →
Power On Message (No a	ctivity power off)
	(On)
Function button assign 1	← Signal →
Function button assign 2	 Screensaver →

Item	Adjustments
Input Search	Set auto input switching for when there is no signal. (see page 39)
On screen display	On: Displays all the following on screen. • Power on display • Input signal switch display • No signal display • Mute and the remaining time of off-timer after was pressed. Off: Hides all the items above from view.
Initial input	Adjusts the input signal when the unit is turned on. Off ⇔ PC ⇔ DVI ⇔ HDMI ⇔ Off Notes: • Only the adjusted signal is displayed. (see page 15) • This menu is available only when "Input lock" is "Off".
Initial VOL level	Press ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Maximum VOL level	Press ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Options Adjustments

Item	Adjustments
Input lock	Locks the input switch operation. Off ⇔ PC ⇔ DVI ⇔ HDMI ⇔ Off Notes: • Only the adjusted signal is displayed (see page 15).
	Input switch can be used when this is set to "Off".
	Off ←→ On ←→ MENU&ENTER Off: All the buttons on main unit can be used.
	MENU&ENTER: Locks and buttons on main unit.
Button lock	On: Locks all the button on main unit except the Power switch. Sets Button lock with the unit buttons in the following procedure.
	Off: Press four times→Press four times→Press
	On: Press four times → Press four times → Press four times → Press
Remocon User level	Off ←→ User1 ←→ User2 ←→ User3 Off: You can use all of the buttons on the remote control. User1: You can only use , , , , , , , , , , , , , , , , , , ,
	User2:You can only use button on the remote control. User3:Locks all the buttons on remote control.
	Enable: Enables the "Off-timer function".
Off-timer function	Disable: Disables the "Off-timer function". Note: When "Disable" is set, the Off-timer is cancelled.
Initial Power Mode	Normal ←→ On ←→ Standby Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again. Normal: Power returns in as the same state as before the power interruption. Standby: Power returns in standby mode. (Power Indicator : red/orange) On: Power returns in power On. (Power Indicator : green) Note: When using multiple displays, "Standby" is preferred to be set in order to reduce a power load.
ID select	Sets panel ID number when panel is used in "Remote ID" or "Serial ID". Set value range: 0 - 100 (Standard value: 0)
Remote ID	The setting of this menu is valid only when using ID remote control. Off: Disables ID remote control functions. You can use normal remote control operations. On: Enable ID remote control functions. Note: To use the ID remote control function, it is necessary to set each ID number of remote control and display unit. About the setting method, please refer to "ID Remote Control Function" (see page 32) and "ID select" (above-mentioned).
Serial ID	Sets the panel ID Control. Off: Disables external control by the ID. On: Enables the external control by the ID.
Studio W/B	Off: Nullify all the settings adjusted. On: Sets the colour temperature for TV studio. Note: Valid only when the "Warm" is set as "White balance" in Picture menu.
Power ON Screen Delay	Off ⇔ 1 ⇔ 2 ⇔ 3 ⇔ 30 You can set the power-on delay time of the displays to reduce the power load, when you press ⊕/ to turn on the multiple displays that are set together, for example, on MULTI DISPLAY system. Set each display setting individually. Off: The display will be turned on at the same time as ⊕/ is pressed. 1 to 30 (sec.): Set the power-on delay time (second). After pressing ⊕/ , the display will be powered on with time delay depending on this setting. Notes: • During this function is working, the power indicator is blinking green. • This function also works when the power recovers from failure or after plugging off and in again the power cord.
Power On Message (No activity power off)	Whether to show/hide No activity power off Precautions at the time of power ON is set. On: The warning precautions are shown at the time of power ON. Off: The warning precautions are not shown at the time of power ON. Note: This setting is enabled only if "No activity power off" is "Enable" (see page 27).

Options Adjustments

Item	Adjustments	
Function button assign 1 Function button assign 2	Set the functions that operates when Signal: The "Signal" menu is displayed. Screensaver: The "Screensaver" menu is displayed. ECO menu: The "ECO Mode settings" menu is displayed. Note: Factory settings are as follows. FUNCTION1 button: Signal FUNCTION2 button: Screensaver Use the FUNCTION button The menu screen is displayed. (Example: Signal) Signal Circinar reality Noise reduction HDMI Range Auto H-Freq. 83.98 Hz. Signal FUNCTION button The menu screen is displayed. FUNCTION Press the FUNCTION button of the menu.	

Normalisation

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

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

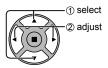
Input Search

When a signal is not detected, another input with a signal is automatically selected.



Press ACTION (■) button





Input Search

Off: When there is no signal, the input is not switched automatically. All Inputs: Searches all inputs and switches to an input with a signal.

Priority: Searches "Primary Input" and "Secondary Input" in order and switches to an input with a signal.



"Searching..." is displayed during the input search.

Primary Input, Secondary Input

Set the input to search when "Priority" is selected.

(NONE) $\stackrel{\cdot}{\longleftrightarrow}$ HDMI $\stackrel{\cdot}{\longleftrightarrow}$ DVI $\stackrel{\cdot}{\longleftrightarrow}$ PC

Notes:

• This menu is available only when "Input lock" is "Off". (see page 38)

Troubleshooting

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

Symptoms Picture Sound		Checks		
		Cnecks		
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 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			
? No Picture	Normal Sound	If a signal with a non-applicable format, or frequency is input, only the input terminal indication is displayed.		
No remote control operation	s 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 sometime	nes 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 pic off when I use the zoom fun		Adjust the position of the picture on the screen.		
Areas at the top and botto the image is missing appear 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 fr	rom 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.		
Parts of the unit become ho		Even when the temperature of parts of the front, top and rear panels has rise these temperature rises will not pose any problems in terms of performance quality.		
Power automatically turns off unexpectedly.		Check the settings of "No signal power off", "PC Power management", "DVI-D Power management" and "No activity power off". Any of them may be set to "On (Enable)". (see page 27, 28)		
This LCD 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.				

LCD Display panel

Symptoms	Check
The screen darkens slightly when bright pictures with minimal movements are shown.	The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen's service life: It is normal and not indicative of malfunctioning.
It takes a while for the picture to appear.	The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched.
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.
There may be red spots, blue spots, green spots and black spots on the screen.	This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as fixed points of red, blue, green, or black. Please note this does not affect the performance of your LCD.
Excesspio	Image retention may occur. If you display a still picture for an extended period, the image might remain on the screen. However, it will disappear after a while. This is not considered as malfunction.
Image retention appears	

Applicable Input Signals

PC signals

*Mark: Applicable input signal

Cianal agent	Horizontal frequency	Vertical frequency	PC IN	DVI-D IN	HDMI
Signal name	(kHz)	(Hz)	(Dot clock (MHz))	(Dot clock (MHz))	HDIVII
1 640x400@70Hz	31.46	70.07	* (25.17)		
2 640x480@60Hz	31.47	59.94	* (25.18)	* (25.18)	*
3 640x480@72Hz	37.86	72.81	* (31.5)	(/	
4 640x480@75Hz	37.50	75.00	* (31.5)		
5 640x480@85Hz	43.27	85.01	* (36.0)		
6 800x600@56Hz	35.16	56.25	* (36.0)		
7 800x600@60Hz	37.88	60.32	* (40.0)	* (40.0)	*
8 800x600@72Hz	48.08	72.19	* (50.0)	` '	
9 800x600@75Hz	46.88	75.00	* (49.5)		
10 800x600@85Hz	53.67	85.06	* (56.25)		
11 852x480@60Hz	31.47	59.94	* (33.54)	* (33.24)	*
12 1024x768@50Hz	39.55	50.00	` ′	* (51.89)	*
13 1024x768@60Hz	48.36	60.00	* (65.0)	* (65.0)	*
14 1024x768@70Hz	56.48	70.07	* (75.0)	` ′	
15 1024x768@75Hz	60.02	75.03	* (78.75)		
16 1024x768@85Hz	68.68	85.00	* (94.5)		
17 1066x600@60Hz	37.64	59.94	* (53.0)	* (53.0)	*
18 1152x864@60Hz	53.70	60.00	` ′	* (81.62)	*
19 1152x864@75Hz	67.50	75.00	* (108.0)		
20 1280x768@60Hz	47.70	60.00	* (80.14)		
21 1280x960@60Hz	60.00	60.00	* (108.0)		
22 1280x960@85Hz	85.94	85.00	* (148.5)		
23 1280x1024@60Hz	63.98	60.02	* (108.0)	* (108.0)	*
24 1280x1024@75Hz	79.98	75.02	* (135.0)		
25 1280x1024@85Hz	91.15	85.02	* (157.5) *1		
26 1366x768@50Hz	39.55	50.00		* (69.92)	*
27 1366x768@60Hz	48.36	60.00	* (86.71)	* (87.44)	*
28 1400x1050@60Hz	65.22	60.00		* (122.61)	*
29 1600x1200@60Hz	75.00	60.00	* (162.0)	* (162.0)	*
30 1920x1080@60Hz	67.50	60.00	* (148.5)	* (148.5)	*
31 1920x1200@60Hz	74.04	59.95		* (154.0)	*
32 Macintosh13"(640x480)	35.00	66.67	* (30.24)		
33 Macintosh16"(832x624)	49.72	74.55	* (57.28)		
34 Macintosh21"(1152x870)	68.68	75.06	* (100.0)		

^{*1} Not compatible with Sync on G.

Component signals

*Mark: Applicable input signal

onipononi oignaio				•••	iant. Applicable inp	at o.ga.
	Signal name	Horizontal frequency	Vertical frequency	PC IN	DVI-D IN	HDMI
		(kHz)	(Hz)	(Dot clock (MHz))	(Dot clock (MHz))	HUIVII
1	525(480)/60i	15.73	59.94	* (13.5)	* (27.0)	*
2	525(480)/60p	31.47	59.94	* (27.0)	* (27.0)	*
3	625(575)/50i	15.63	50.00	* (13.5)		
4	625(576)/50i	15.63	50.00		* (27.0)	*
5	625(575)/50p	31.25	50.00	* (27.0)	, ,	*
6	625(576)/50p	31.25	50.00		* (27.0)	*
7	750(720)/60p	45.00	60.00	* (74.25)	* (74.25)	*
8	750(720)/50p	37.50	50.00	* (74.25)	* (74.25)	*
9	1,125(1,080)/60p	67.50	60.00	* (148.5)*1	* (148.5)	*
10	1,125(1,080)/60i	33.75	60.00	* (74.25)*1	* (74.25)	*
11	1,125(1,080)/50p	56.25	50.00	* (148.5)*1	* (148.5)	*
12	1,125(1,080)/50i	28.13	50.00	* (74.25)*1	* (74.25)	*
13	1,125(1,080)/24sF	27.00	48.00	* (74.25)*2		
14	1,125(1,080)/30p	33.75	30.00	* (74.25)*1	* (74.25)	*
15	1,125(1,080)/25p	28.13	25.00	* (74.25)*1	* (74.25)	*
16	1,125(1,080)/24p	27.00	24.00	* (74.25)*1	* (74.25)	*

[•] The signal format automatically detected may differ from the actual input signal in display.

Shipping condition

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

1

SET UP

Press to display the Setup menu.

2



Press to select "OSD Language".

Press for more than 3 seconds.

Subernavier Input label ECO Mode settings
Wobbling Off
Component/RGB-in select RGB
No activity power off
Disable
OSD Language English(UK) 1

Signal

≣ Setup

3



Press to select "Shipping".

Press to display the Shipping menu.

Options Shipping

4



Press to select "YES".

Press to confirm.

Shipping
YES NO

- **5** Wait for 10 seconds.
- 6



-Press the power switch (\circlearrowleft/I) on main unit to turn the power off.

[from the unit]

- 1 Press the MENU button till the Setup menu is displayed.
- 2 Press the Volume Up"+" or Down"-" button to select "OSD Language".
- 3 Press and hold the ENTER button till the Shipping menu is displayed.
- 4 Press the Volume Up"+" or Down"-" button to select "YES".
- 5 Press the ENTER button and wait for 10 sec.
- 6 Press the power switch (₼/|) on main unit to turn the power off.

Specifications

			TH-42LF5W	TH-47LF5W		
Power Source			220 - 240 V AC, 50/60Hz			
Power Consumption		otion				
	Power on		250 W	290 W		
	Stand-by condition		0.5 W	0.5 W		
	Power of	f condition	0.3 W	0.3 W		
LC	D Display par	nel	42-inch IPS panel, 16:9 aspect ratio	47-inch IPS panel, 16:9 aspect ratio		
Screen size			930 mm (W) × 523 mm (H) × 1,067 mm (diagonal)	1,039 mm (W) × 584 mm (H) × 1,192 mm (diagonal)		
	(No.of	pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]		
Op	erating condi	ition				
	Tempe	erature	0 °C	- 40 °C		
	Hun	nidity	20 %	- 80 %		
Аp	plicable sign	als				
	Scanning format		525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p · 24p · 25p · 30p · 24sF			
	PC s	ignals	VGA, SVGA, XGA, SXGA			
			UXGA ···· (compressed)			
			Horizontal scanning frequency 30 - 110 kHz			
_			Vertical scanning frequency 48 - 120 Hz			
Co	nnection tern		TYPE A Connector			
	DVI-D IN	OMI	DVI-D 24 Pin			
	או ט-ועט		Content Protection	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1		
		AUDIO	Stereo mini jack (M3) × 1	0.5 Vrms, Shared with PC IN		
	PC IN	AODIO	High-Density Mini D-sub 15 Pin	Y or G with sync 1.0 Vp-p (75 Ω)		
	10		Thigh Bonoity Willia B odb To Tail	Y or G without sync 0.7 Vp-p (75 Ω)		
				PB/CB/B: 0.7 Vp-p (75 Ω)		
	AUDIO SERIAL IN			Pr/Cr/R: 0.7 Vp-p (75 Ω)		
				HD/VD: 1.0 - 5.0 Vp-p (high impedance)		
			Stereo mini jack (M3) × 1	0.5 Vrms, Shared with DVI-D IN		
			External Control Terminal			
			D-sub 9 Pin	RS-232C compatible		
	AUDIO L-R		RCA PIN JACK × 2 (L / R)	[INPUT 1 kHz / 0 dB, 10 kΩ Load]		
	OUT		Output level: Variable (-∞ — 0 dB)			
Dir	nensions (W	× H × D)	968 mm × 561 mm × 116 mm	1,079 mm × 624 mm × 117 mm		
Ma	ss (weight)		approx. 20.0 kg	approx. 24.5 kg		

Note:

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

Customer's Record

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

Model Number

Serial Number

Panasonic Corporation

Web Site : http://panasonic.net © Panasonic Corporation 2012

Printed in Malaysia M0712-0