

# Panasonic®

Model No.

**TH-47LFT30W**

**TH-47LFX30W**

## Operating Instructions DISPLAY Edition FULL HD LCD Display



## 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>*

# Precautions for Installation

- Do not install by yourself. Please ask a installation professional or your dealer to install.
- This product corresponds to IP53\*1 dust and water protection standard. Do not change or damage dust or water resistance of the product.
- Please note the dust and water resistance of this product does not guarantee damage or fault free.



## CAUTION

Using with dust or water resistance degraded causes fire, electric shock, or product damage.

This product corresponds to international standard IP rating (Ingress Protection) dust ingress protection level 5 and water ingress protection level 3.

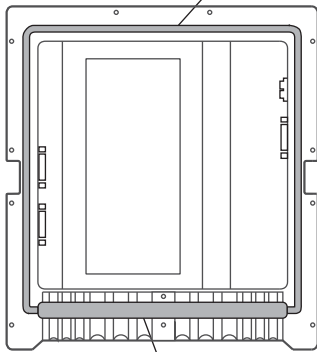
### ■ Terminal cover

After connecting cable etc. of the device to the terminals, check if the terminal cover is sealed correctly and closed firmly using all the fixing screws when attaching the terminal cover.

To seal the terminal cover correctly, be aware of the following points:

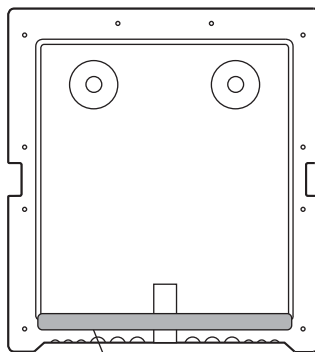
**Check if the fixing sealant is fixed in the correct position in the cover. Fixing sealant is an important part to seal the cable part.**

Terminal part on main unit rear side



Fixing sealant

Terminal cover rear side

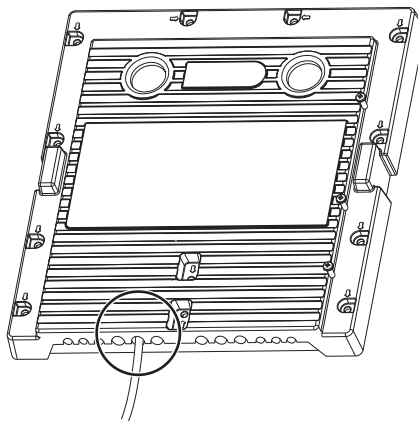
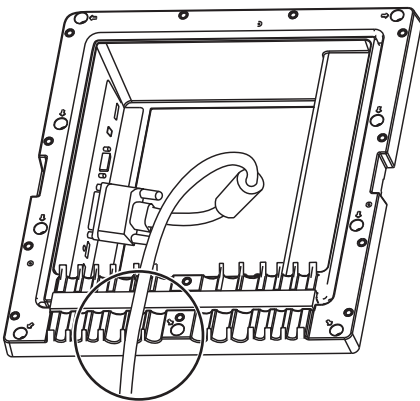


Fixing sealant

### Note:

IPX3 water resistance refers to the capability to prevent the harmful effects of water falling as a droplet at any angle up to 60 degrees from the vertical.

**Stick the cable to the shape of the dent on the terminal strip base tightly.**



- The structure is to keep the airtightness by tucking the cable pulled out along the dent on the terminal strip base with both fixing sealant of the terminal strip base and terminal cover.

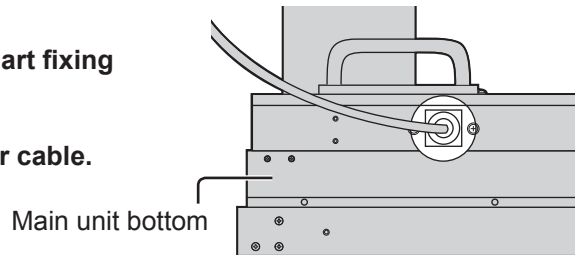
\*1: Based on tests performed by Cosmos Corporation.

# Precautions for Installation

## ■ Power cable

To keep the waterproof property, do not loosen the part fixing the power cable to the main unit.

Do not force to bend the protruding part of the power cable. This may cause disconnection.

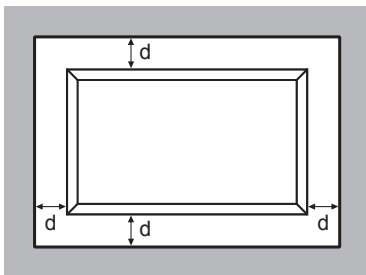


## ■ Protective coating

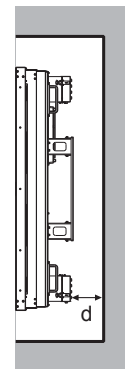
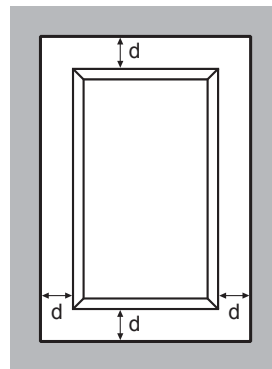
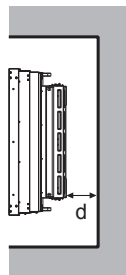
Cabinet aluminum parts and rear face are protected from corrosion with coating. Be careful not to damage the surface. In case the surface is damaged, corrosion may occur from there.

## ■ Installation position

- When direct sunlight is on the screen, black shadow may appear. This will disappear when the temperature drops.
- To install the product long term in a special environment such as near a swimming pool, hot spring, or ocean, or in a factory uses chemicals or gases, please consult your local Panasonic dealer beforehand.
- The product is equipped with cooling fans and air filters that need to be cleaned or replaced if covered with dust. Removing or installing air filters requires space around the Display. With this in mind, provide adequate space when installing the Display. [Height 7.874"/200 mm or greater, Width 7.874"/200 mm or greater, Depth 7.874"/200 mm or greater]



d:7.874"/200 mm or greater



## ■ Installation conditions

To use the product in an environment where outdoor air temperature is lower than 39 °F (4 °C), make sure to set the "Winter Mode" to "On". The inside temperature is kept constant and the startup can be performed smoothly. (see page 40)

Do not exhibit or use this product in a condition where water splashes on to it continuously for long time.

Always use the product at an ambient temperature in the range of 32 °F - 113 °F / 0 °C - 45 °C (during Winter Mode: -4 °F - 113 °F / -20 °C - 45 °C).

Use the product at ambient temperatures up to 104 °F/40 °C at an installation site where the display screen is exposed to sunlight.

## ■ To install on a wall etc.

- Consult your dealer about fittings etc. beforehand.
- Choose a permanent position where the total weight of the product and fittings can be hold permanently. If the strength of the position is not sufficient, a serious accident such as fall may be caused.
- Do not install the product where a person can be hang or lean on, or a passer may collide into. Accident may be caused.
- Take measures for tipping over and fall with an assumption of a fitting or installation location failure.
- Installation strength may be degraded due to aging depends on the environment. Ask a installation professional to inspect or repair regularly.
- When an abnormality or fault such as loose screw is detected, ask an installation professional or your dealer immediately for repair.
- Panasonic will not be responsible for any damages from an accident such as defect of installation, improper use, modification, or natural disaster.

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>	
<b>WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.</b>		



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.



This ENERGY STAR mark is applicable in USA only.

As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

# 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.



# FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

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

## **FCC CAUTION:**

**To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.**

### FCC Declaration of Conformity

Model No. TH-47LFT30W, TH-47LFX30W

Responsible Party: Panasonic Corporation of North America  
Three Panasonic Way 2F-5, Secaucus, NJ 07094  
Contact Source: Panasonic Solutions Company  
Panasonic Plasma Concierge 1-800-973-4390

## **CANADIAN NOTICE:**

This Class B digital apparatus complies with Canadian ICES-003.

# Important Safety Notice

## WARNING

- 1) **No naked flame sources, such as lighted candles, should be placed on / above the set.**
- 2) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 3) Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.  
Do not defeat the purpose of the earthing plug.
- 4) To prevent electric shock, ensure the earthing pin on the AC cord power plug is securely connected.

## CAUTION

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

## IMPORTANT: THE MOULDED PLUG

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This display is supplied with a moulded three pin mains plug for your safety and convenience. A 10 amp fuse is fitted in this plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 10 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic dealer.

Do not cut off the mains plug.

Do not use any other type of mains lead except the one supplied with this display.

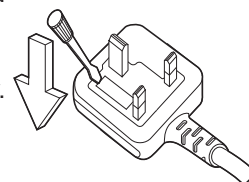
The supplied mains lead and moulded plug are designed to be used with this display to avoid interference and for your safety.

If the socket outlet in your home is not suitable, get it changed by a qualified electrician.

If the plug or mains lead becomes damaged, purchase a replacement from an authorized dealer.

**WARNING : — THIS DISPLAY MUST BE EARTHED.**

How to replace the fuse. Open the fuse compartment with a screwdriver and replace the fuse.





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- 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

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 any objects on top of the Display.**

- 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 heat release;**

**Leave a space of 7.874" (20 cm) or more at the top, bottom, right, left, and rear to install.**

- Use the product within the operating condition temperature range.
- Do not block any inlet or outlet of the Display.

### **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, turn up the terminal cover for the upward direction.

## ■ When using the LCD Display

The Display is designed to operate on 110 - 127 or 220 - 240 V AC, 50/60 Hz.

**Attach the terminal cover firmly to use.**

- Otherwise the dust and water resistance is damaged and may cause fire, electric shock or product damage.

**Do not stick any foreign objects into the Display.**

- Do not insert any metal or flammable objects into the Display 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.**

**To prevent the spread of fire, keep candles or other open flames away from this product at all times.**



## ■ 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 foreign objects get inside the Display, if the Display is dropped, or if the cabinet becomes damaged, 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

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### CAUTION

#### ■ When using the LCD Display

##### **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.

##### **Power supply**

- Install the product near an electrical outlet so that the plug can be unplugged immediately when an abnormality occurs.
- For a wall installation, used a power outlet which can be unplugged immediately when an abnormality occurs.
- This product is energized when the power plug is inserted to a socket. To cut off the power completely, the power plug must be unplugged from the socket.

##### **Cabinet**

- Corner part of the metal cabinet is a potential injury hazard.
- To lift the product, hold the handles for the precaution of fall. Injury or damage may be caused.

## 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.

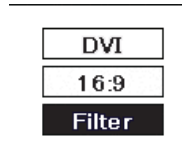
##### **If the cabinet becomes dirty, wipe it with a soft, dry cloth.**

- 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.

## Maintaining air filters

The cooling structure of the Display is designed to circulate air taken in from outside inside the Display using fans. Air filters are built into the inlet and outlet.

The screen may display “Filter” as you turn on the Display. This means dust is accumulated on air filters.

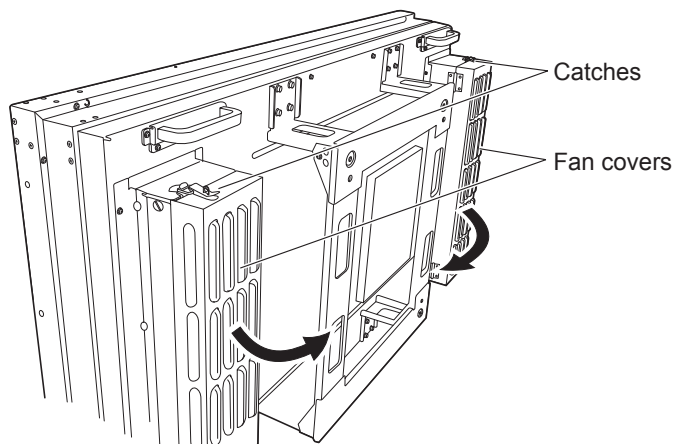


Remove and clean the air filters. Consult your dealer about air filter replacement when the screen displays “Filter” within a short period after cleaning.

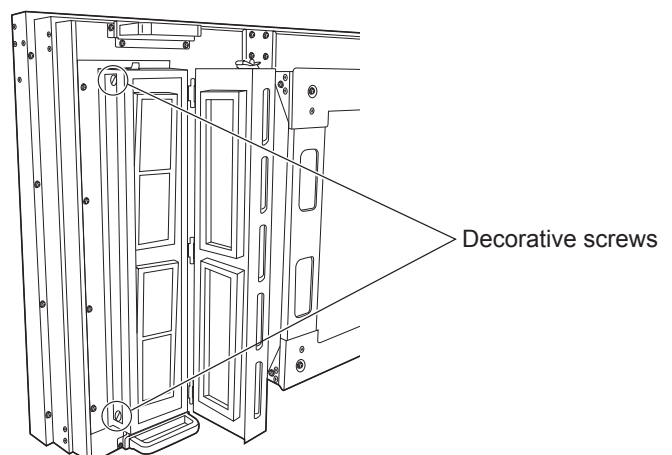
### ■ How to remove air filters

Always unplug the power plug before removing air filters.

- 1** Release the top and bottom catches of the fan cover to open the fan cover.

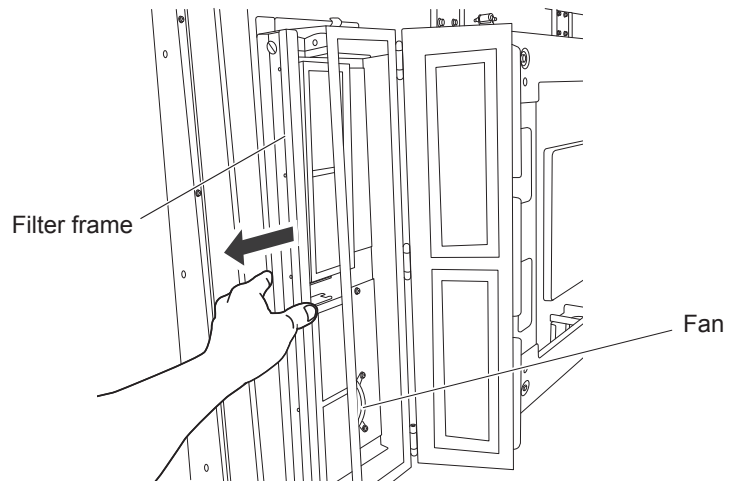


- 2** Loosen the top and bottom decorative screws located on the side of the fan cover until they turn freely.

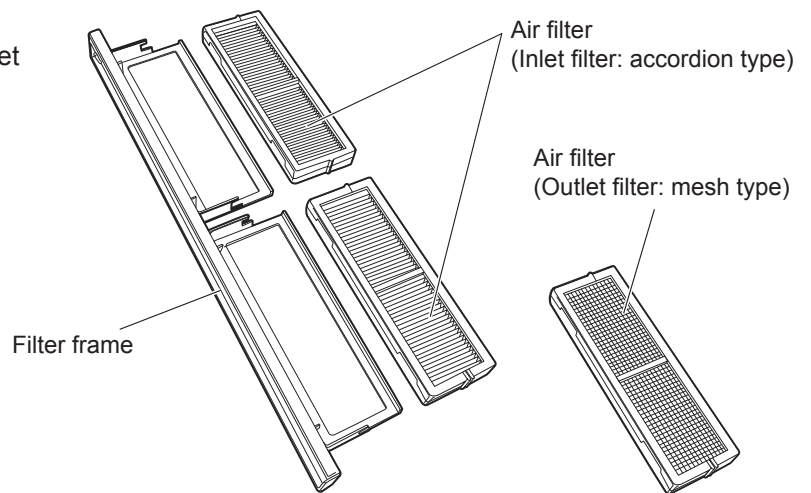


# Safety Precautions

## 3 Pull out the filter frame laterally.



## 4 Remove air filters from the filter frame. The inlet filter (accordion type) and the outlet filter (mesh type) differ in shape.



### Cleaning air filters

Clean foreign matter or dust adhering to air filters and the outside of them with a vacuum cleaner. In doing so, be careful not to tear the air filters.

### How to install air filters

To install air filters to the Display, reverse procedure to remove the air filters. In doing so, do not confuse the inlet and outlet filters. The confusion may cause failure in the Display due to improper air filter function.

### Notes:

- Air filters must be installed before using the Display. The absence of an air filter may cause failure in the Display due to the intake of foreign matter or dust.
- When an air filter is damaged or is unobtrusively soiled even after cleaning, replace the air filter with a new one. Contact your sales agent for replacement.
- The amount of foreign matter or dust adhering to air filters varies depending on the installation location and the used hours. Increase the frequency of cleaning in locations where dust can easily accumulate.
- Do not touch the fans or wiring inside the Display.
- When removing air filters from or installing into the Display set on a high place, take care of your own safety, and avoid the concerned parts falling.

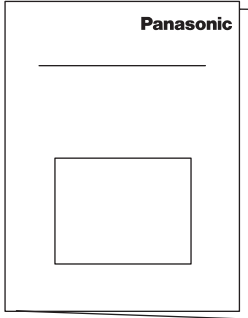
# Accessories

## Accessories Supply

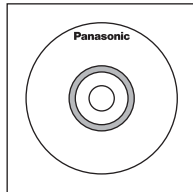
Check that you have the accessories and items shown



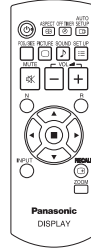
DISPLAY Edition of the operating Instructions (14)



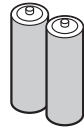
CD-ROM (1) (Operating instructions)



Remote Control Transmitter N2QAYB000535



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



Power supply cord

Main plug types vary between countries. Make sure to use the power supply cord with the voltage and shape appropriate to your country and region. (see page 9)

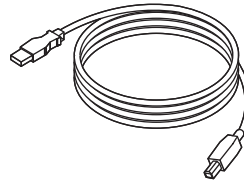
**Note:**  
Remote Control Transmitter is not water protection type.

### For TH-47LFT30W

TOUCH PANEL Edition of the operating Instructions (1)

CD-ROM (1) (Driver software)

USB cable 3 m (1)

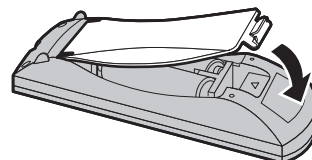
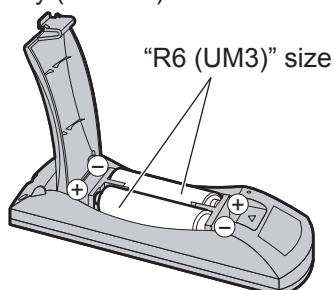
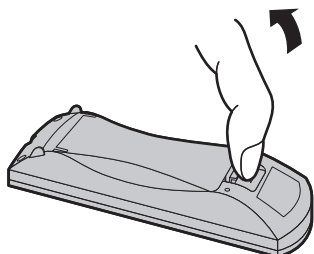


**Note:**  
TH-47LFX30W does not have a touch panel built in.

# Remote Control Batteries

**Requires two R6 batteries.**

1. Pull and hold the hook, then open the battery cover.
2. Insert batteries - note correct polarity (+ and -).
3. Replace the cover.



### Helpful Hint:

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

### **⚠️ Precaution on battery use**

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

#### **Observe the following 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.



# About Power Supply Cord

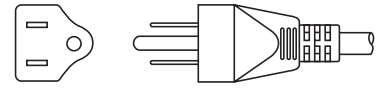
Main plug types vary between countries. Check the shape of the power plugs to choose the appropriate cable for you.

Country Name	Appropriate AC Cables
<b>Asia</b>	
India	Cable B or Cable C
Indonesia	
Philippine	
Malaysia	
Singapore	
Hong Kong	Cable C
<b>Middle East</b>	
United Arab Emirates	Cable B or Cable C
Iraq	
Iran	
Oman	
Syria	
Lebanon	
Qatar	
Kuwait	
Saudi Arabia	Cable C
<b>Africa</b>	
Egypt	Cable B or Cable C
Ethiopia	
South Africa	
<b>Middle/South America</b>	
Uruguay	Cable A or Cable B
Ecuador	
Colombia	
Chili	
Panama	
Paraguay	
Puerto Rico	
Venezuela	
Peru	
Bolivia	
Honduras	
<b>North America</b>	
USA	Cable A (110-127 V AC Compatible)
Canada	
<b>Europe</b>	
Italy	Cable B
Austria	
Netherlands	
Greece	
Switzerland	
Sweden	
Spain	
Czech	
Denmark	
Germany	
Norway	
Hungary	
Finland	
France	
Bulgaria	
Belgium	
Portugal	
Poland	
Monaco	
Luxembourg	
Russia	
Kazakhstan	
Ukraine	
Belarus	
UK	Cable C
<b>Oceania</b>	
Australia	Cable D
New Zealand	

**Caution:**  
 110-127 V AC: Cable A is adaptable  
 220-240 V AC: Cable B is adaptable

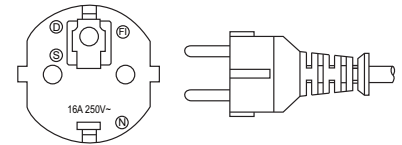
**Cable A**

Plug Type : A



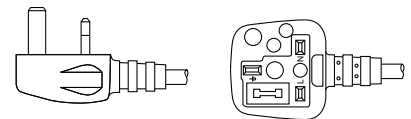
**Cable B**

Plug Type : SE



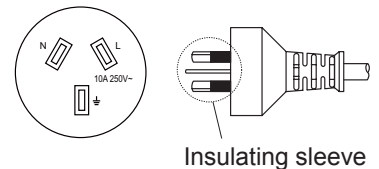
**Cable C**

Plug Type : BF



**Cable D**

Plug Type : O



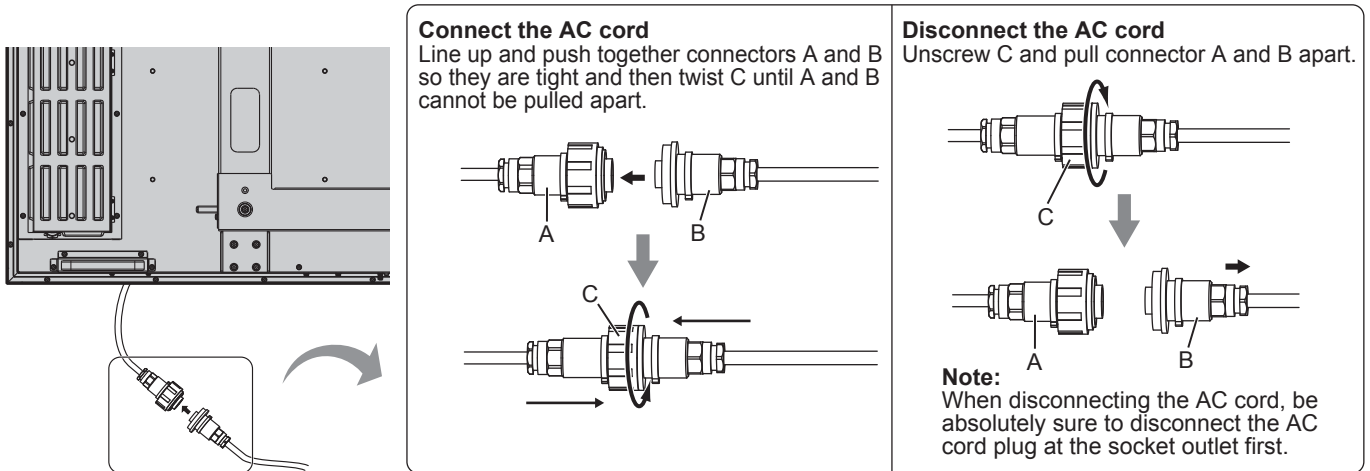
Insulating sleeve

**Note:**

Depending on the country of destination, relay type or direct attached type of the power supply cord is used.

# Connections

## AC cord connection

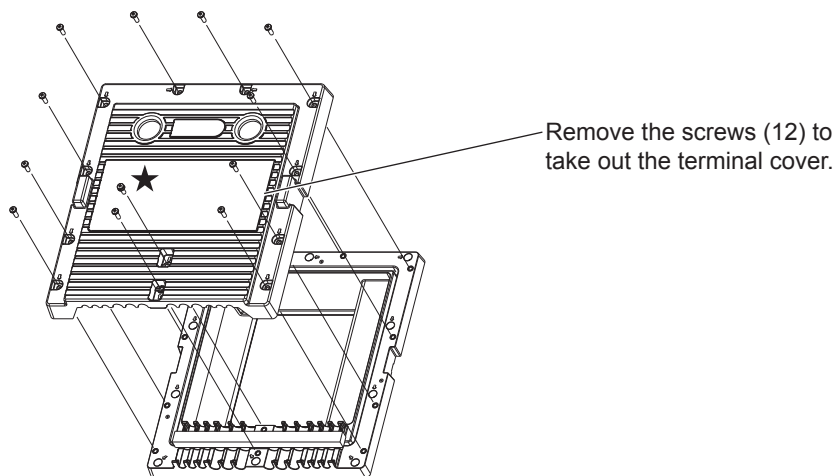


**Note:**

Depending on the country of destination, relay type or direct attached type of the power supply cord is used.

## How to remove terminal cover

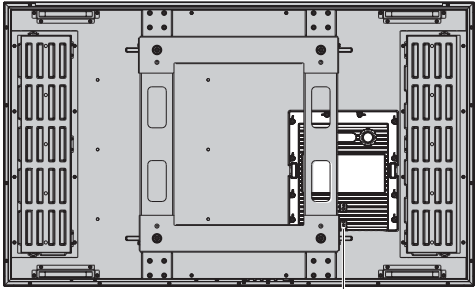
To remove the terminal cover to connect a cable or other item, remove all 12 screws in bottom, middle, then top order to prevent the terminal cover dropping off. Opening the terminal cover with some screws left on damages the terminal cover.



**Notes:**

- After connection, check the cable is pulled out along the groove without overlapping, then tighten the all 12 screws to attach the terminal cover correctly. Otherwise water enters inside and causes fire, electric shock and product damage.
- Water-proof washer is used for one screw with ★ marked. To attach the terminal cover, let the water-proof washer through to attach the ★ marked screw.
- Make sure to read the "Terminal cover" (page iii) section for the correct handling of the terminal cover to use the product properly.

# Video equipment connection



Remove the terminal cover (see page 10)

**EXT SP**  
Speaker output terminal

Red  
Black

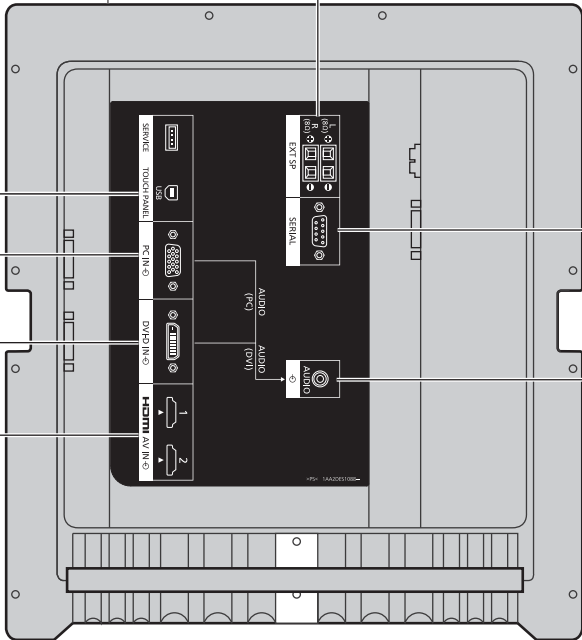
① While pressing the lever, insert the core wire.      ② Return the lever.

**For TH-47LFT30W TOUCH PANEL**  
USB terminal  
(see TOUCH PANEL Edition of the operating Instructions)

**PC IN**  
PC Input Terminal  
(see page 13)

**DVI-D IN**  
DVI-D Input Terminal  
(see page 12)

**AV IN**  
**HDMI1, HDMI2**  
HDMI Input Terminal  
(see page 12)



**SERIAL**  
Control the Display by connecting to PC  
(see page 14)

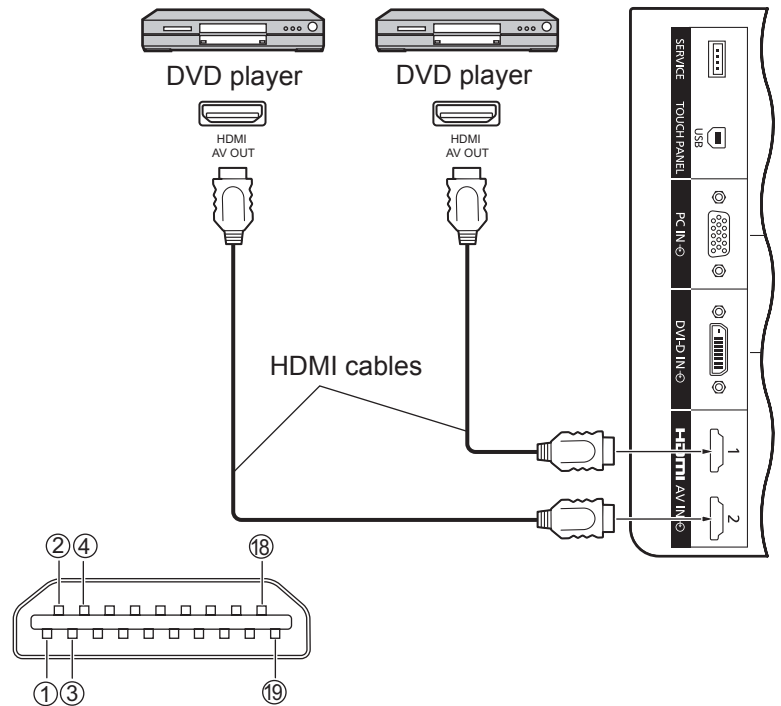
**AUDIO (DVI-D / PC)**  
Connect the audio output of equipment connected to DVI-D IN or PC IN.  
(see page 12, 13)

**Note:**  
The terminal on the USB terminal is for service use.  
It must remain unconnected under normal circumstances.

## HDMI connection

[Pin assignments and signal names]

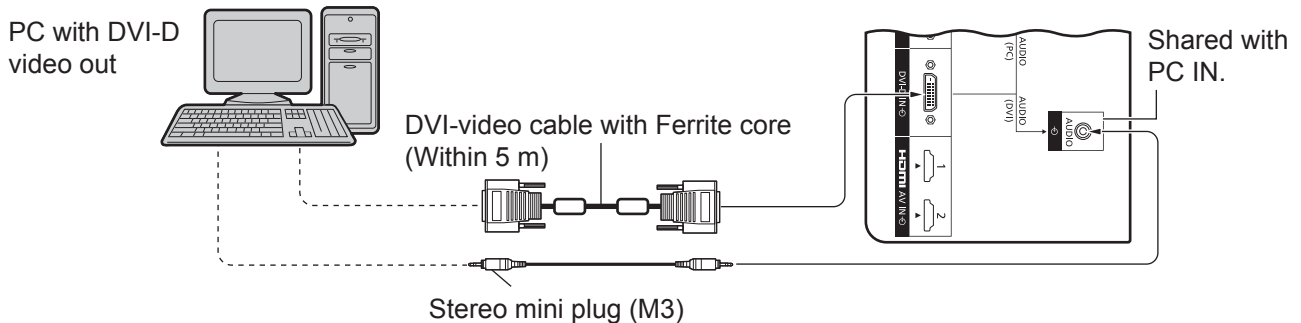
Pin No.	Signal Name	Pin No.	Signal Name
①	T.M.D.S Data2+	⑪	T.M.D.S Clock Shield
②	T.M.D.S Data2 Shield	⑫	T.M.D.S Clock-
③	T.M.D.S Data2-	⑬	CEC
④	T.M.D.S Data1+	⑭	Reserved (N.C. on device)
⑤	T.M.D.S Data1 Shield		
⑥	T.M.D.S Data1-	⑮	SCL
⑦	T.M.D.S Data0+	⑯	SDA
⑧	T.M.D.S Data0 Shield	⑰	DDC/CEC Ground
⑨	T.M.D.S Data0-	⑱	+5V Power
⑩	T.M.D.S Clock+	⑲	Hot Plug Detect



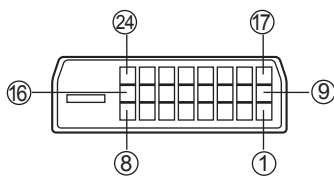
**Note:**

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

## DVI-D IN connection



**DVI-D Input Connector Pin Layouts**



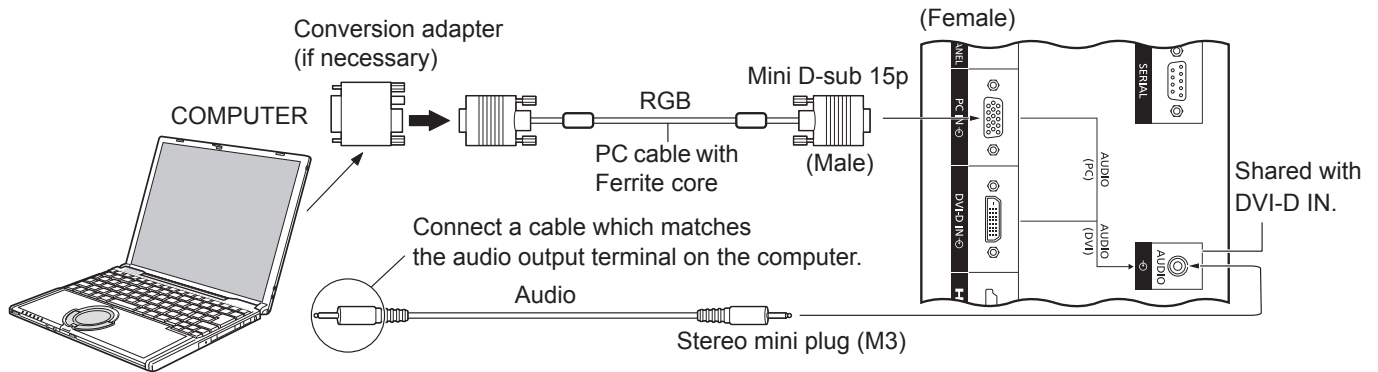
Connection port view

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	_____	⑯	Hot plug detect
⑤	_____	⑰	T.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.

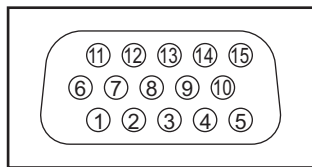
# PC Input Terminals connection



**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.
- Panasonic recommends using a PC cable that includes a Ferrite core.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.

**Signal Names for Mini D-sub 15P Connector**

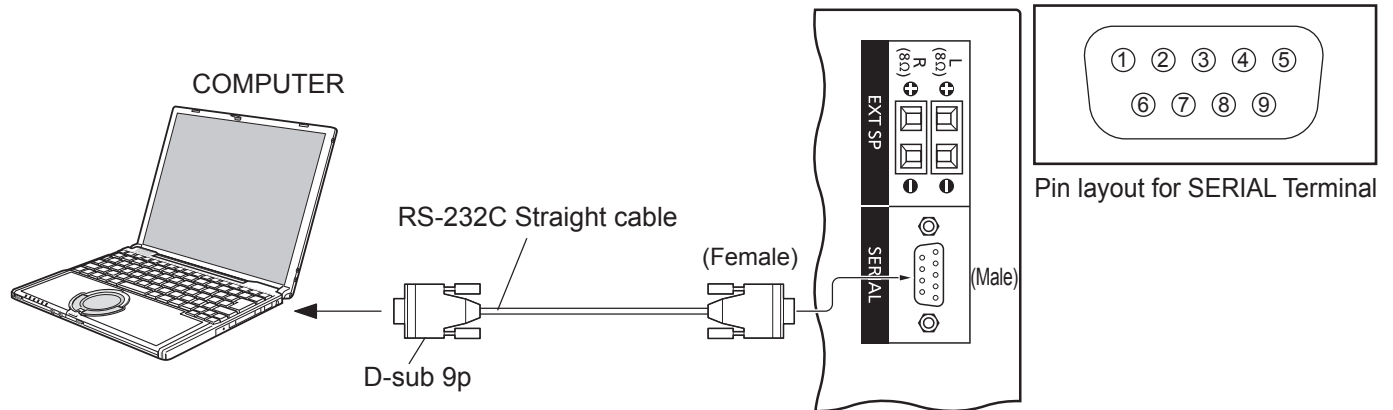


Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	SDA
③	B	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.

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.

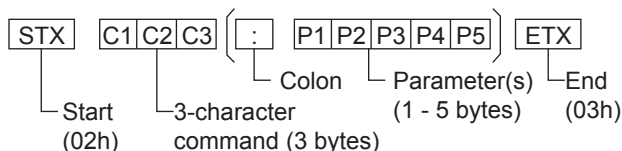
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

### 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	-

### 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.

### Signal names for D-sub 9P connector

Pin No.	Details
②	R X D
③	T X D
⑤	GND
④ • ⑥	Non use
⑦ ⑧	(Shorted in this set)
① • ⑨	NC

These signal names are those of computer specifications.

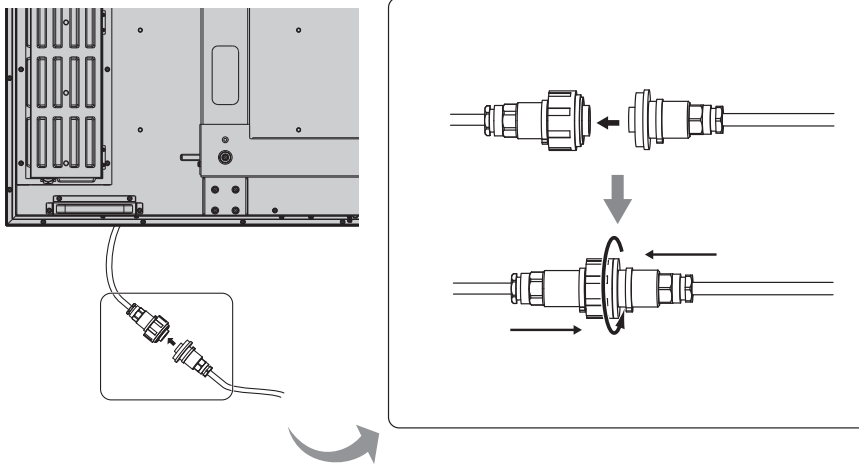
### Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	***	Volume 000 - 100
AMT	0	Audio MUTE OFF
	1	Audio MUTE ON
IMS	None	Input select (toggle)
	HM1	HDMI1 input (HDMI1)
	HM2	HDMI2 input (HDMI2)
	DV1	DVI-D IN input (DVI)
DAM	PC1	PC IN input (PC)
	None	Screen mode select (toggle)
	ZOOM	Zoom1
	FULL	16:9
	NORM	4:3
	ZOM2	Zoom2

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

# Power On / Off

Connecting the AC cord plug to the Display. (see page 10)



**Note:**  
Depending on the country of destination, relay type or direct attached type of the power supply cord is used.

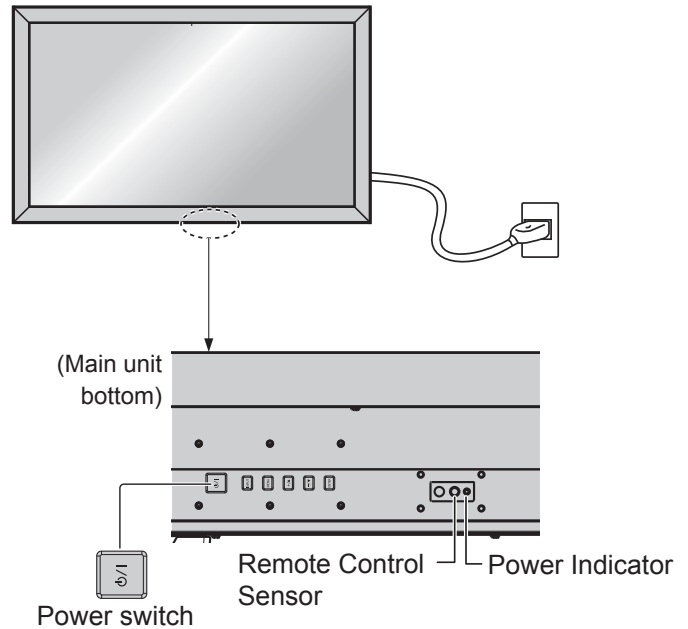
Connecting the plug to the Wall Outlet


**Notes:**

- Main plug types vary between countries. The power plug shown at right may, therefore, not be the type fitted to your set. (see page 9)
- 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)

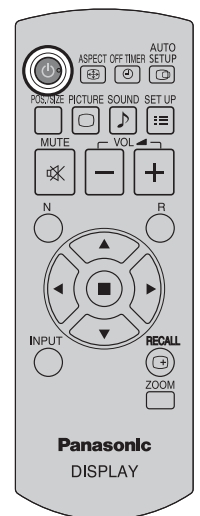
Press the  button on the remote control to turn the Display on.

Power Indicator: Green

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

**Note:**

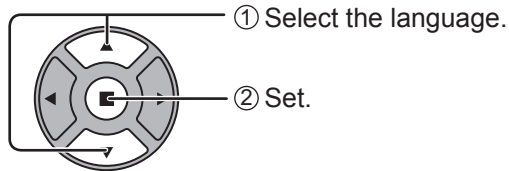
During operation of the power management function, the power indicator turns orange in the power off state.



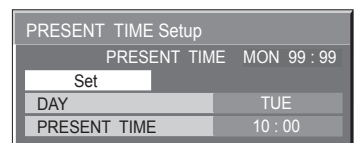
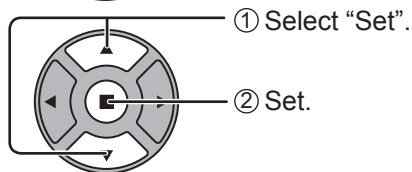
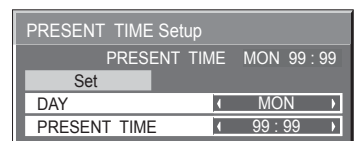
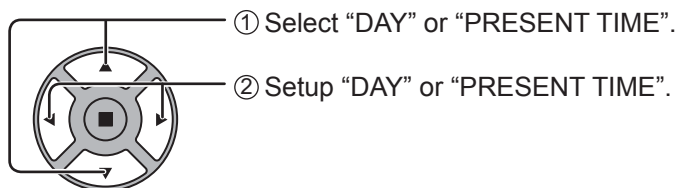
## When first switching on the unit

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

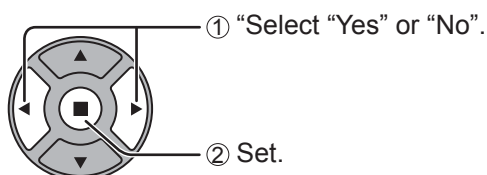
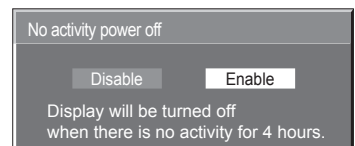
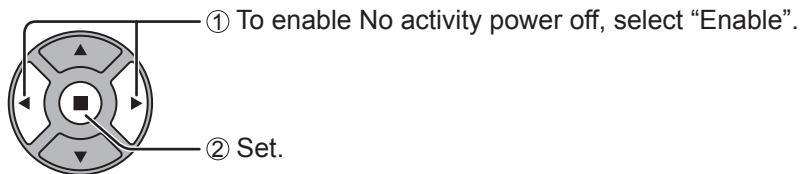
### OSD Language



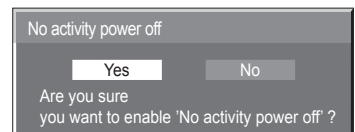
### PRESENT TIME Setup



### No activity power off



If selecting "Enable", a confirmation window appears.



### Notes:

- Once the items are set, the screens won't be displayed when switching on the unit next time.
- After the setting, the items can be changed in the following menus.
  - OSD Language (see page 34)
  - PRESENT TIME Setup (see page 28)
  - No activity power off (see page 32)

### 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 32)

This message display can be set with the following menu: Options menu

Power On Message (see page 40)

### Note:

The fans start to spin about 90 seconds after Power is ON. The fans spin while the Display power is ON.



# Selecting the input signal



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:



PC: PC input terminal in PC IN.

DVI: DVI input terminal in DVI-D IN.

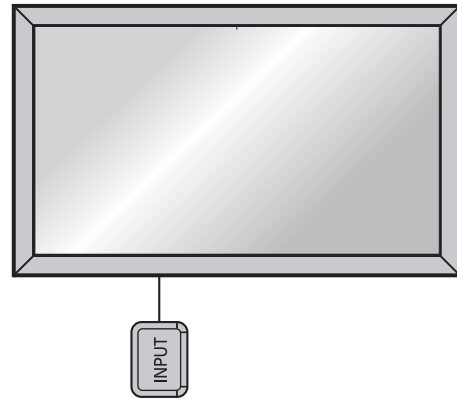
HDMI1: HDMI input terminal in AV IN (HDMI1).

HDMI2: HDMI input terminal in AV IN (HDMI2).



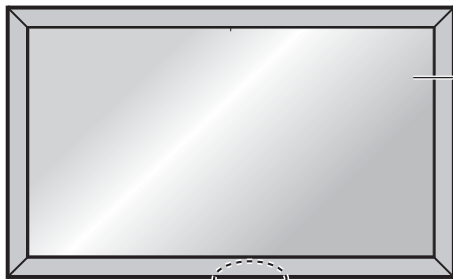
## Note:

Selecting is also possible by pressing the INPUT button on the unit.



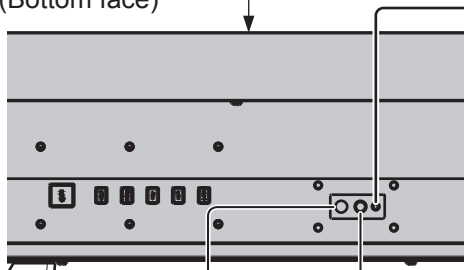
# Basic Controls

## Main Unit



**For TH-47LFT30W**  
**Touch panel**  
 (see TOUCH PANEL Edition of the operating Instructions)  
**Note:**  
 TH-47LFX30W does not have a touch panel built in.

(Bottom face)

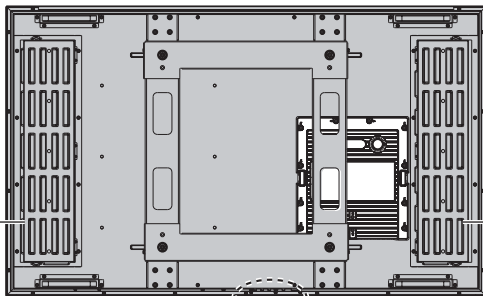


**Power Indicator**  
 The Power Indicator will light.

- 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
- Power management (DPMS) ..... Orange (PC IN or DVI-D IN signal. See page 32)

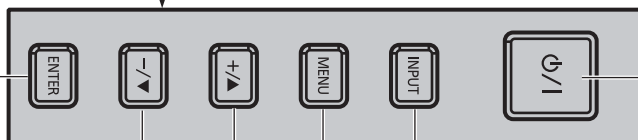
**Remote control sensor**

**For TH-47LFX30W**  
**Brightness Sensor**  
 Detects the brightness in the viewing environment.



**Inlet**  
 (Air filter, fan)  
 (see page 5, 6)

**Outlet**  
 (Air filter, fan)  
 (see page 5, 6)



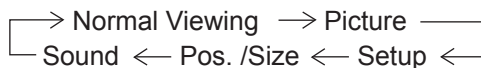
**Enter / Aspect button**  
 (see page 20, 22)

**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 22)

**Main Power On / Off Switch**

**INPUT button**  
 (INPUT signal selection)  
 (see page 17)

**MENU Screen ON / OFF**  
 Each time the MENU button is pressed, the menu screen will switch. (see page 22)



## Remote Control Transmitter

**ACTION button**  
Press to make selections.

**ASPECT button**  
Press to adjust the aspect.  
(see page 20)

**Standby (ON / OFF) button**  
The Display must first be plugged into the wall outlet and turned on at the power switch (see page 15). Press this button to turn the Display On, from Standby mode. Press it again to turn the Display Off to Standby mode.

**POS. /SIZE button**  
(see page 23)

**PICTURE button**  
(see page 25)

**Sound mute On / Off**  
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.

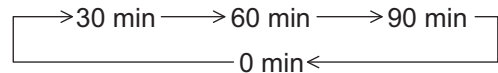
**N button**  
(see page 24, 25, 26, 27)

**POSITION buttons**

**INPUT button**  
Press to select Input signal sequentially. (see page 17)

### OFF TIMER button

The 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 min" will flash.  
The off timer is cancelled if a power interruption occurs.

### AUTO SETUP button

Automatically adjusts the position/size of the screen. (see page 23)

**SET UP button** (see page 28)

**SOUND button** (see page 27)

### Volume Adjustment

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

**R button** (see page 22)

Press the R button to return to previous menu screen.

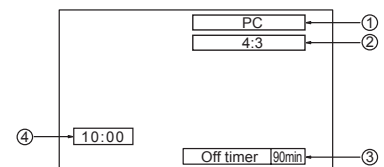
### RECALL button

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

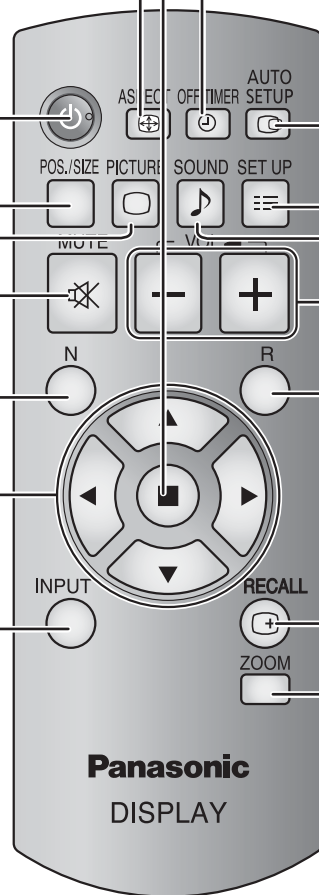
- ① Input label
- ② Aspect mode (see page 20)
- ③ Off timer

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

- ④ Clock display (see page 40)



**Digital Zoom** (see page 21)

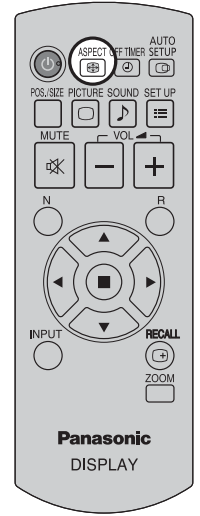


# ASPECT Controls

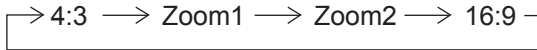
The Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.

**Note:**

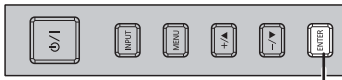
Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the aspect mode select function to shrink or expand the picture, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other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



Press repeatedly to move through the aspect options:



[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.

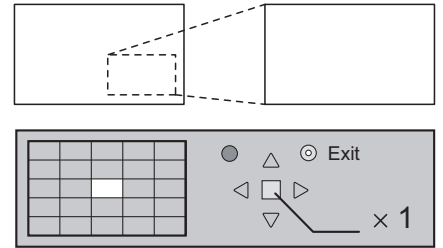
Aspect mode	Picture → Enlarged screen	Description
16:9		The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.
4:3		Pictures with 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.

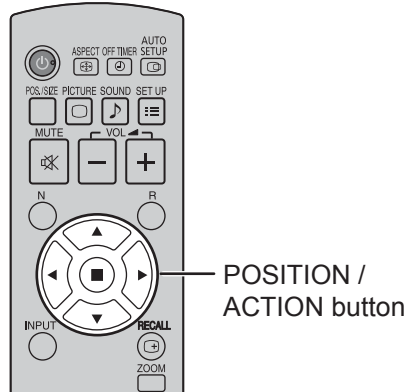
## 1 Display the operation guide.

**ZOOM**  
 Press to access Digital Zoom.  
 The operation guide will be displayed.

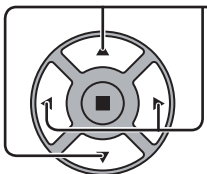


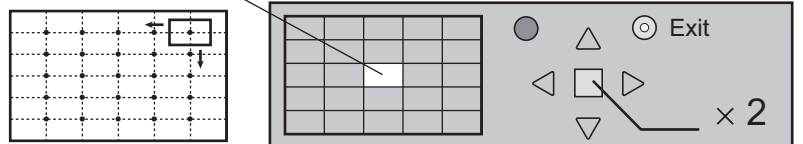
**During Digital Zoom, only the following buttons can be operated.**

[Remote control]

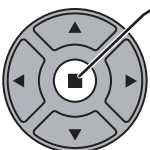


## 2 Select the area of the image to be enlarged.

 Press on the enlargement location to select.  
 The cursor will move.




## 3 Select the magnification required for the enlarged display.

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



## 4 Return to normal display (quit Digital Zoom).

**R**  
 Press to exit from the Digital Zoom.

### Notes:

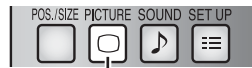
- When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state:  
 When MULTI DISPLAY Setup is On (see page 35).  
 When Screensaver is running (see page 30)
- While Digital Zoom is in operation, "Adjusting Pos. / Size" cannot be used.

# On-Screen Menu Displays

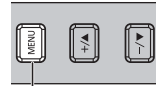
## Remote Control

## Unit

### 1 Display the menu screen.

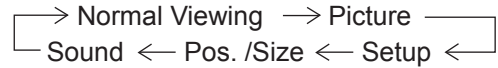


Press to select.  
(Example: Picture menu)

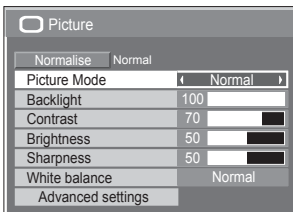


Press several times.

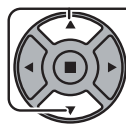
Each time the MENU button is pressed, the menu screen will switch.



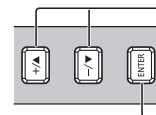
### 2 Select the item.



(Example: Picture menu)



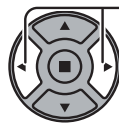
Select.



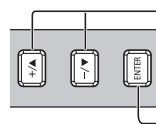
1 Select.

2 Press.

### 3 Set.



Adjust.



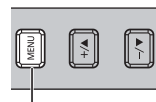
1 Adjust.

2 Press.

### 4 Exit the menu.



Press.  
Press  $\bigcirc$  to return to the previous menu.

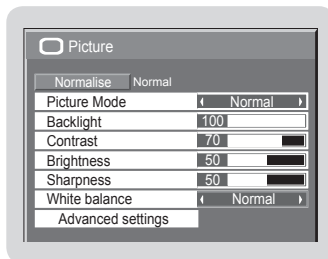


Press several times.

## Overview

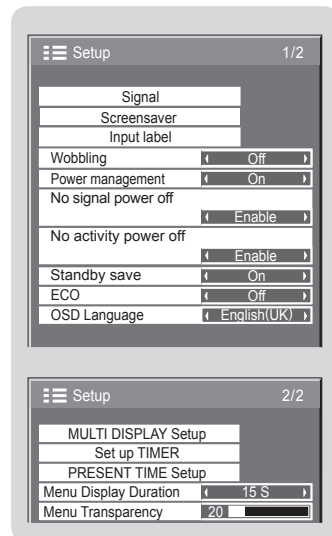
**Note:** Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.

### Picture menu



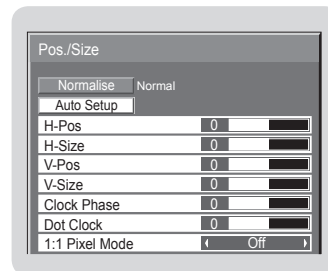
Page 25, 26

### Setup menu



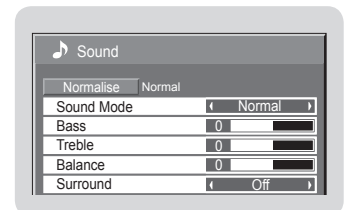
Page 28-38

### Pos./Size menu




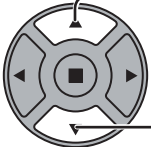
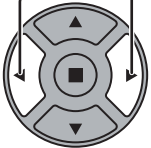

Page 23, 24

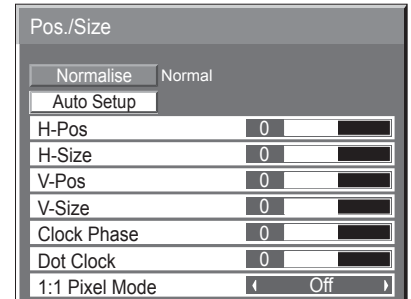
### Sound menu



Page 27

# Adjusting Pos. /Size

- 1  Press to display the Pos. /Size menu.
- 2  Press to select the menu to adjust.
- 3  Press to adjust the menu.
- 4  Press to exit from adjust mode.



## Notes:

Unadjustable items are grayed out.

Adjustable items differ depending on the input signal and the display mode.

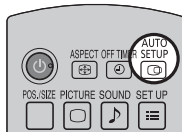
## Note:

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 RGB or PC signal is received.

This setting only operates when a PC signal or RGB signal is input, and the aspect is "16:9".

## Using Remote Control



When  on the remote control is pressed, "Auto Setup" will be executed.

When Auto Setup does not work, "Invalid" is displayed.

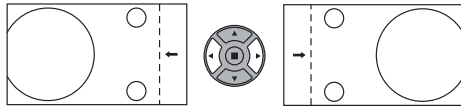
## Notes:

- 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 60 Hz XGA signal (1024×768@60Hz and 1366×768@60Hz), pre-selecting the individual signal in "XGA Mode" (see page 37) 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

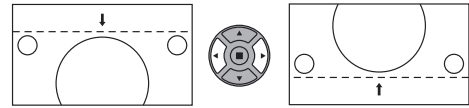
## H-Pos

Adjust the horizontal position.



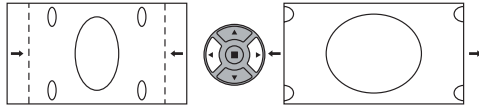
## V-Pos

Adjust the vertical position.



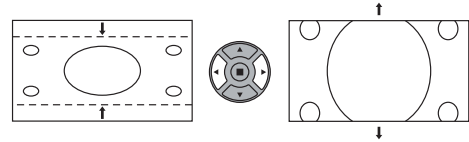
## H-Size

Adjust the horizontal size.



## V-Size

Adjust the vertical size.



## Clock Phase

**(During PC input signal)**

Eliminate the flickering and distortion.

## Dot Clock

**(During PC input signal)**

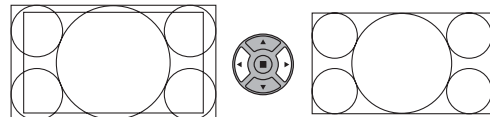
Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

## Over scan

Turn image over scan On/Off.

Configurable signals are as follows:

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



On

Off

### Notes:

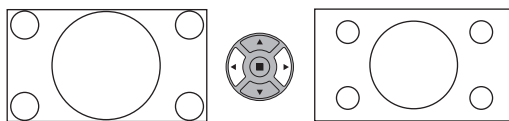
- "Off" is effective during only "16:9" aspect mode.
- When "Off" is set, "H-Size" and "V-Size" cannot be adjusted.

## 1:1 Pixel Mode

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

### Notes:


- "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 · 60i · 24sF · 24p · 25p · 30p · 50p · 60p
- Select Off when flickering is shown around the image.
- H-Size and V-Size cannot be adjusted when On is selected.



Off


On

## Helpful Hint ( / Normalise Normalisation)

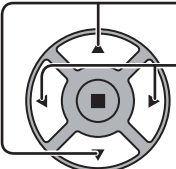
While the Pos. / Size display is active, if either the N button on the remote control is pressed at any time or the ACTION (  ) button is pressed during "Normalise", then all adjustment values (except "Clock Phase" and "Dot Clock") are returned to the factory settings.



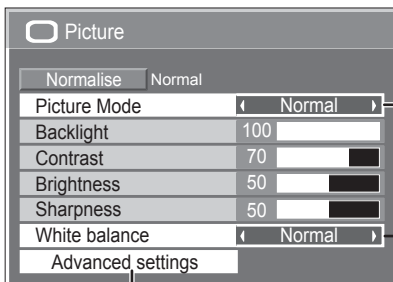
# Picture Adjustments

**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.

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



Press “◀” or “▶” button to switch between modes.

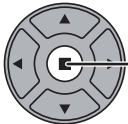


**Normal**  
 For viewing in standard (evening lighting) environments.  
 This menu selects the normal levels of Brightness and Contrast.

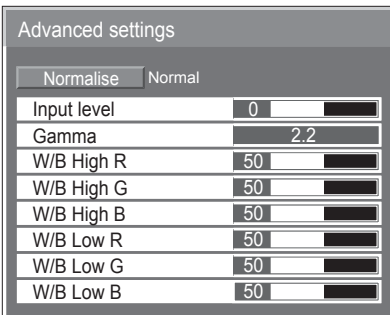
**Dynamic**  
 For viewing in brighter environments.  
 This menu selects higher than normal levels of Brightness and Contrast.

**Cinema**  
 Ideal for movies.

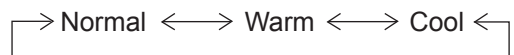
**Note:**  
 If you would like to change the picture of the selected Picture menu to something else, adjust using the items in the Picture menu.

 Press to enter Advanced settings .


**Advanced settings**  
 Enables fine picture adjustment at a professional level (see next page).











Press “◀” or “▶” button to switch between modes.



## 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
<b>Backlight</b>	  Darker      Brighter	Adjusts luminance of the back light.
<b>Contrast</b>	  Less      More	Selects the proper brightness and density for the room.
<b>Brightness</b>	  Darker      Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
<b>Sharpness</b>	  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.

## Advanced settings

Item	Effect	Details
<b>Input level</b>	  Less      More	Adjustment of parts which are extremely bright and hard to see.
<b>Gamma</b>	  Down      Up	S Curve $\longleftrightarrow$ 2.0 $\longleftrightarrow$ 2.2 $\longleftrightarrow$ 2.6
<b>W/B High R</b>	  Less      More	Adjusts the white balance for light red areas.
<b>W/B High G</b>	  Less      More	Adjusts the white balance for light green areas.
<b>W/B High B</b>	  Less      More	Adjusts the white balance for light blue areas.
<b>W/B Low R</b>	  Less      More	Adjusts the white balance for dark red areas.
<b>W/B Low G</b>	  Less      More	Adjusts the white balance for dark green areas.
<b>W/B Low B</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.

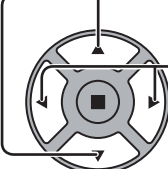
### Helpful Hint ( / Normalisation )

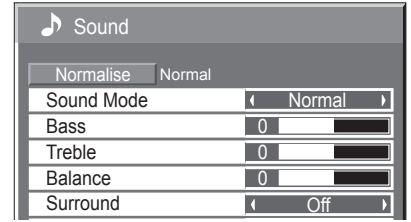
On the remote control unit, while the "Advanced settings" menu is displayed, if either the N button is pressed at any time or the ACTION (■) button is pressed during "Normalise", then all adjustment values are returned to the factory settings.

# Sound Adjustment

**1**  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.



**3**  Press to exit from adjust mode.

Item	Details
<b>Sound Mode</b>	<b>Normal:</b> Emits the original sound. <b>Dynamic:</b> Accentuates sharp sound. <b>Clear:</b> Attenuates human voice.
<b>Bass</b>	Adjusts low pitch sounds.
<b>Treble</b>	Adjusts high pitch sounds.
<b>Balance</b>	Adjusts left and right volumes.
<b>Surround</b>	Select On or Off.

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


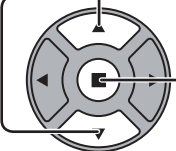
## Helpful Hint ( / Normalisation )

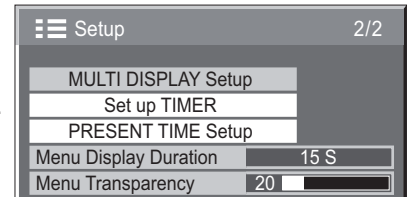
While the “Sound” menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during “Normalise”, then all adjustment values are returned to the factory settings.

# PRESENT TIME Setup / Set up TIMER

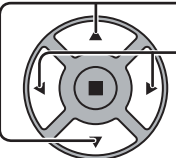
The timer can switch the Display On or Off.

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

- 1  Press to display the Setup menu.
- 2  Press to select Set up TIMER or PRESENT TIME Setup.  
Press to display the Set up TIMER screen or PRESENT TIME Setup screen.

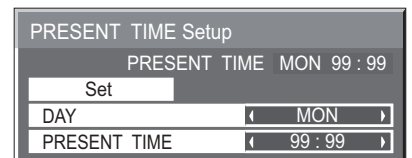


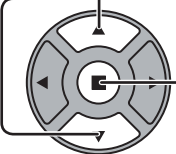
## PRESENT TIME Setup

- 1  Press to select DAY or PRESENT TIME.  
Press to setup DAY or PRESENT TIME.  
▶ button: Forward  
◀ button: Back

**Notes:**

- Pressing “◀” or “▶” button once changes PRESENT TIME 1 minute.
- Pressing “◀” or “▶” button continuously changes PRESENT TIME by 15 minutes.



- 2  Press to select Set.  
Press to store PRESENT TIME Setup.

**Notes:**

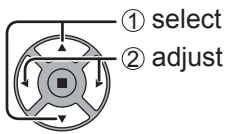
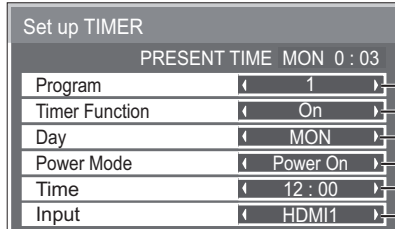
- Set cannot be selected unless PRESENT TIME is set.
- Unless setting the present time other than “99:99”, “DAY” and “PRESENT TIME” can not be set.
- The settings of “DAY” and “PRESENT TIME” are reset when leaving the display turned off for about 7 days for the following reasons:  
Pressing ⏻/⏺ switch of the unit to turn off the display.  
Disconnecting the AC cord.  
Interruption of power supply.

## Set up TIMER

Set the program for turning the power On/Off and select the input signal at the specified time. Up to 20 programs can be set.

### [Setting Example]

Program 1, Every Monday, 12:00, Power On, Input: HDMI1



- 1 Set the program number.
- 2 To execute the program, set to "On".  
The program is disabled when "Off" is set.
- 3 Set the day.  
The program is executed every day when "Everyday" is set.
- 4 Set the power On/Off.
- 5 Set the time.  
Pressing "◀" or "▶" button once changes "Time" 1 minute.  
Pressing "◀" or "▶" button continuously changes "Time" by 15 minutes.
- 6 Set the input.

### Notes:

- This function cannot be set unless "PRESENT TIME Setup" is set.
- If more than one programs are set for the same time, only the program with the smallest program number is enabled.

# Screensaver (For preventing image retention)

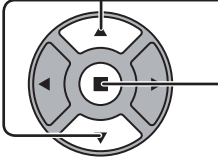
Do not display a still picture, especially in 4:3 mode, for any length of time.

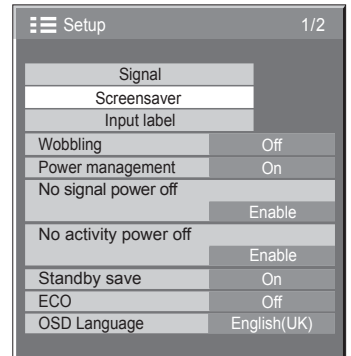
If the display must remain on, a Screensaver should be used.

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

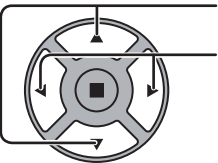
Black→Dark Gray→Gray→Light Gray→White

**1**  Press to display the Setup menu.

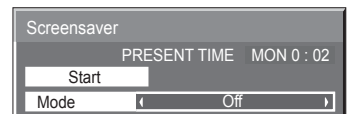
**2**  Press to select Screensaver.  
Press to display Screensaver screen.



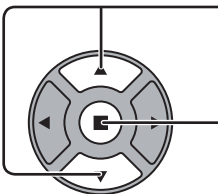
## 3 Mode selection

 Press to select Mode.  
Press to select each mode items.

- Off
- Interval : Operates when Periodic Time and Operating Time are setup and those times arrive.
- Time Designation : Operates when Start Time and Finish Time are setup and those times arrive.
- Standby after SCR Saver: Operates while Screensaver duration, and display enters standby mode.
- On : Operates when Start is selected and the ACTION (■) button is pressed.



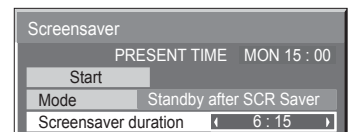
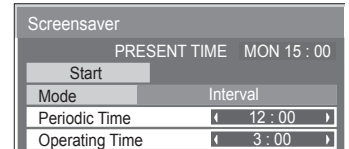
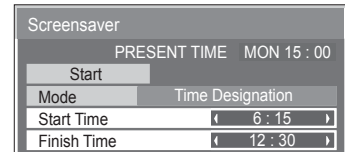
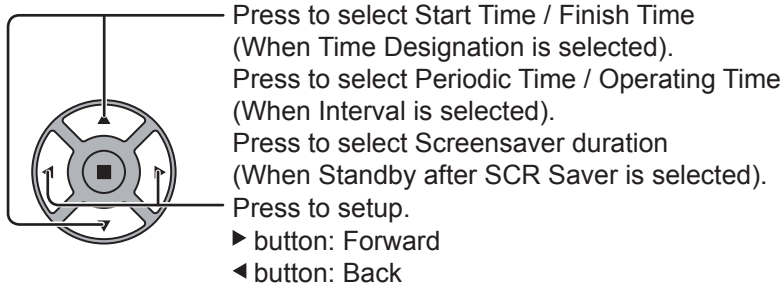
## 4 Start setting

 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 Screensaver will be deactivated.

## Setup of Screensaver Time

After selecting Time Designation, 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".)



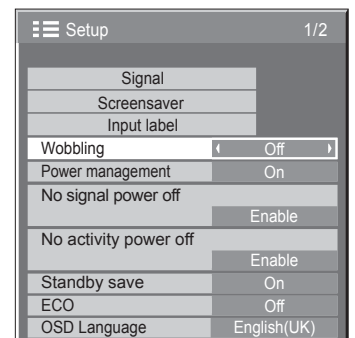
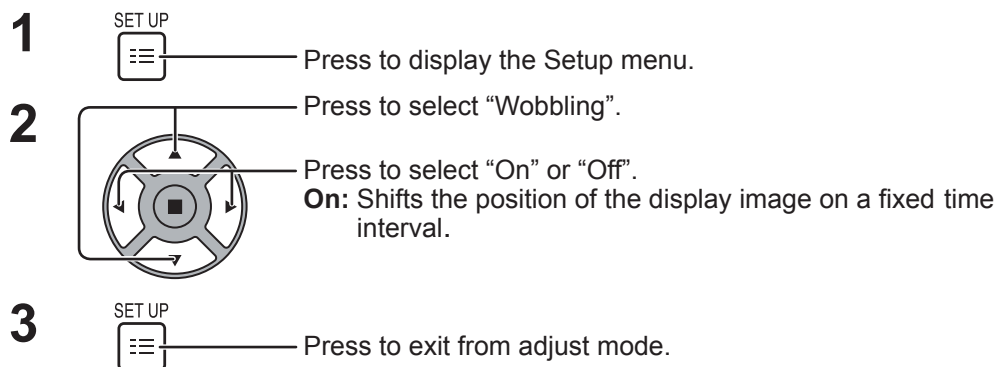
### Notes:

- 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.

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

## Wobbling

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



### 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.

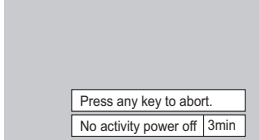
# Reduces power consumption

- 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 are detected for 30 or so seconds during input from PC IN or DVI-D IN terminal:  
 → Power is turned off (standby); the power indicator lights up orange.  
 When pictures are subsequently detected:  
 → Power is turned on; the power indicator lights up green.

**Notes:**

  - This function operates only during input from PC IN or DVI-D IN terminal.
  - This function is effective when “Sync” is set to “Auto” and during normal viewing (one picture screen).
- 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.

**Note:**  
 This function is effective during normal viewing (one picture screen).
- No activity power off:** 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.



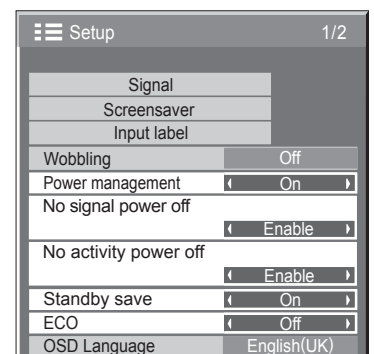
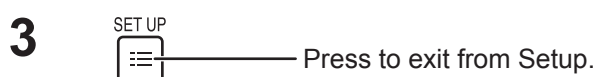
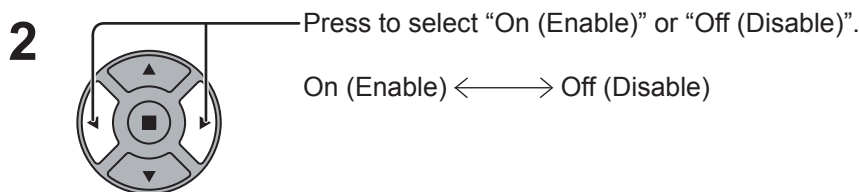
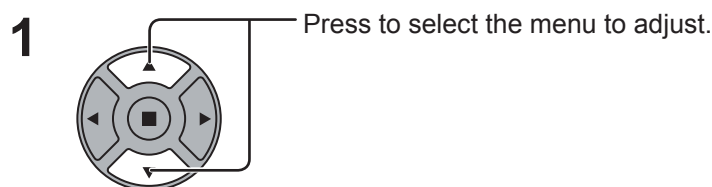
When the power is turned off due to this function, a message “Last turn off due to ‘No activity power off’.” is displayed next time the power is turned on.

**Note:**  
 During the screensaver is running, this function is disabled.
- Standby save:** When this function is set to “On”, serial communication is disabled during standby mode, reducing the power consumption during standby.  
 To perform serial communication while in standby, set this function to “Off(SERIAL)”.  
 However, the standby power consumption is greater than when it is set to “On”.

**Note:**  
 The factory setting is “On”.
- ECO:** 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.

\* The “Sensor” setting can be only used for TH-47LFX30W.


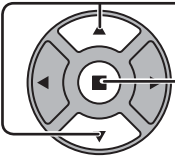
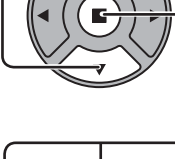
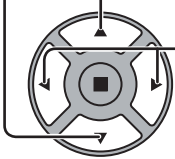

**Note:**  
 When this function is set to “On” or “Sensor”, the “Backlight” setting in the Picture menu is disabled.





# Customizing the Input labels

This function can change the label of the Input signal to be displayed. (see page 17)

- 1  Press to display the Setup menu.
- 2  Press to select Input label.  
 Press to display the Input label screen.
- 3  Press to select image input.  
 Press to change input label.

Setup 1/2	
Signal	
Screensaver	
Input label	
Wobbling	Off
Power management	On
No signal power off	Enable
No activity power off	Enable
Standby save	On
ECO	Off
OSD Language	English(UK)

Input label	
PC	PC
DVI	DVI
HDMI1	HDMI1
HDMI2	HDMI2

## Image input


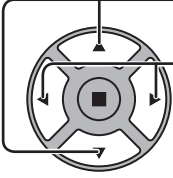
[PC]  
 [DVI]  
 [HDMI1]  
 [HDMI2]

## Input label

PC / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip)  
 DVI / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip)  
 HDMI1 / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip)  
 HDMI2 / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip)

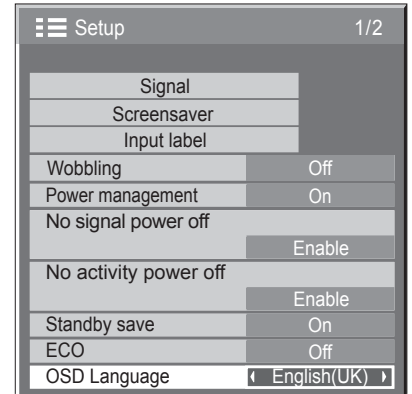
(Skip): The INPUT button press will skip its input.

# Selecting the On-Screen Menu Language

-  Press to display the Setup menu.
- 
  - Press to select the OSD Language.
  - Press to select your preferred language.


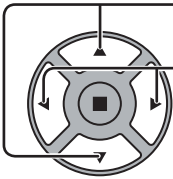
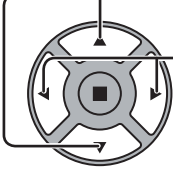

## ■ Selectable languages

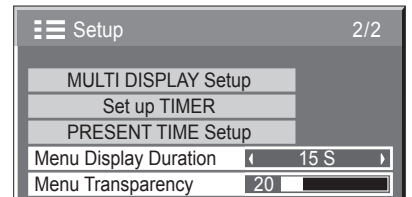
- English (UK)
- ↕
- Deutsch
- ↕
- Français
- ↕
- Italiano
- ↕
- Español
- ↕
- ENGLISH (US)
- ↕
- 中文.....(Chinese)
- ↕
- 日本語.....(Japanese)
- ↕
- Русский.....(Russian)



# Customizing the On-Screen Menu Display

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

-  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.

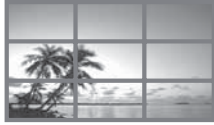
For this mode of operation, each display has to be set up with a Display number to determine its location.

(Example)

group of 4 (2 × 2)



group of 9 (3 × 3)




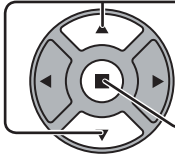
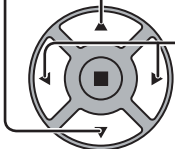
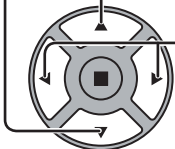
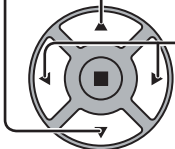
group of 16 (4 × 4)

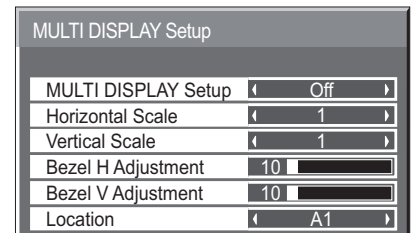
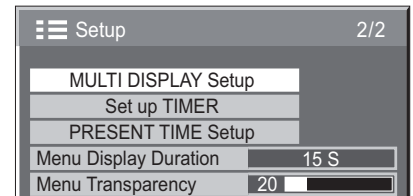




group of 25 (5 × 5)



## How to Setup MULTI DISPLAY

- 1  Press to display the Setup menu.
- 2  Press to select the MULTI DISPLAY Setup.  
 Press to display the "MULTI DISPLAY Setup" menu.
- 3  Press to select the MULTI DISPLAY Setup.  
 Press to select "On" or "Off".



Item	Details
<b>MULTI DISPLAY Setup</b>	Select "On" or "Off".
<b>Horizontal Scale</b>	Select "1", "2", "3", "4", "5".
<b>Vertical Scale</b>	Select "1", "2", "3", "4", "5".
<b>Bezel H Adjustment Bezel V Adjustment</b>	<p>Areas of the image that are hidden by the joint sections are adjusted both horizontally and vertically (0~100).</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>To show joints between displays.</p>  <p><b>Example</b></p> <p>Suitable for still image display. Setting value: 0</p> </div> <div style="text-align: center;"> <p>To hide joints between displays.</p>  <p><b>Example</b></p> <p>Suitable for moving image display. Setting value: 100</p> </div> </div>

# Setup for MULTI DISPLAY

Item	Details																																																									
<b>Location</b>	<p>Select the required arrangement number. (A1-E5 : Refer to the following)</p> <p><b>Display Number locations for each arrangement.</b></p> <p><b>(Examples)</b></p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>( 2 × 1 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td></tr> </table> </div> <div style="text-align: center;"> <p>( 2 × 3 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td></tr> <tr><td>B1</td><td>B2</td></tr> <tr><td>C1</td><td>C2</td></tr> </table> </div> <div style="text-align: center;"> <p>( 4 × 2 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td><td>A3</td><td>A4</td></tr> <tr><td>B1</td><td>B2</td><td>B3</td><td>B4</td></tr> </table> </div> <div style="text-align: center;"> <p>( 4 × 4 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td><td>A3</td><td>A4</td></tr> <tr><td>B1</td><td>B2</td><td>B3</td><td>B4</td></tr> <tr><td>C1</td><td>C2</td><td>C3</td><td>C4</td></tr> <tr><td>D1</td><td>D2</td><td>D3</td><td>D4</td></tr> </table> </div> <div style="text-align: center;"> <p>( 5 × 5 )</p> <table border="1" style="margin: 0 auto;"> <tr><td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td></tr> <tr><td>B1</td><td>B2</td><td>B3</td><td>B4</td><td>B5</td></tr> <tr><td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td></tr> <tr><td>D1</td><td>D2</td><td>D3</td><td>D4</td><td>D5</td></tr> <tr><td>E1</td><td>E2</td><td>E3</td><td>E4</td><td>E5</td></tr> </table> </div> </div>	A1	A2	A1	A2	B1	B2	C1	C2	A1	A2	A3	A4	B1	B2	B3	B4	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5
A1	A2																																																									
A1	A2																																																									
B1	B2																																																									
C1	C2																																																									
A1	A2	A3	A4																																																							
B1	B2	B3	B4																																																							
A1	A2	A3	A4																																																							
B1	B2	B3	B4																																																							
C1	C2	C3	C4																																																							
D1	D2	D3	D4																																																							
A1	A2	A3	A4	A5																																																						
B1	B2	B3	B4	B5																																																						
C1	C2	C3	C4	C5																																																						
D1	D2	D3	D4	D5																																																						
E1	E2	E3	E4	E5																																																						

**4**




Press to exit from Setup.

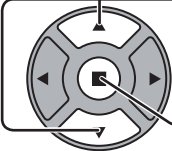
# Setup for Input Signals

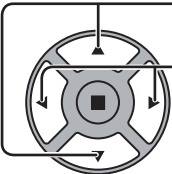
## Signal menu

**Note:**

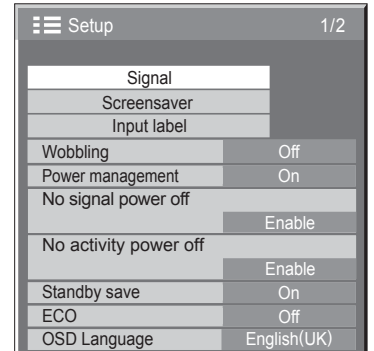
“Signal” setup menu displays a different setting condition for each input signal.

**1**  Press to display the Setup menu.

**2**  Press to select the “Signal”.  
Press to display the Signal menu.

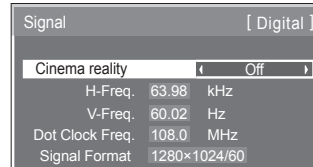
**3**  Press to select the menu to adjust.  
Press to adjust the menu.

**4**  Press to exit from adjust mode.

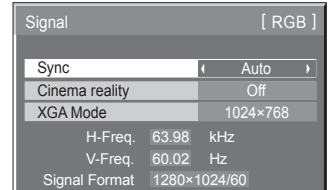


↓ Press ACTION (■) button

For Digital



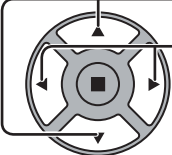
For PC



## 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.

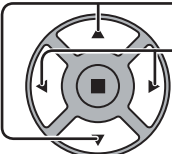
 Press to select Cinema reality.  
Press to set On / Off.



## XGA Mode

This menu is displayed when the input signal is analog (PC). This menu sets two types of XGA signals with 60 Hz vertical frequency having different aspect ratios and sampling rates (1,024 × 768 @ 60Hz and 1,366 × 768 @ 60Hz).

When a 1,280 x 768 @ 60Hz input signal is automatically detected, the image is processed as a 1,280 x 768 @ 60Hz XGA input signal irrespective of this setting.

 Press to select “XGA Mode”.  
Press to select “1024×768”, “1366×768”.

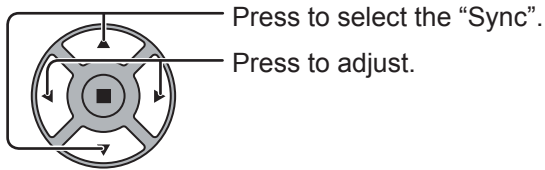


**Note:**

After making this setting, be sure to make each adjustment (such as “Auto Setup”) on the “Pos. /Size” menu as necessary. (see page 23)

## Sync

This function operates only during input from PC IN terminal.



Signal [ RGB ]	
Sync	Auto
Cinema reality	Off
XGA Mode	1024×768

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.

## Input signal display

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

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

Display range:

Horizontal 30 - 110 kHz

Vertical 48 - 120 Hz

H-Freq.	63.98	kHz
V-Freq.	60.02	Hz
Signal Format	1280×1024/60	


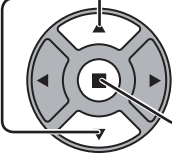
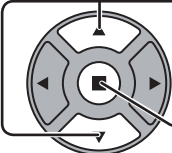
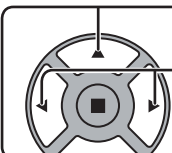

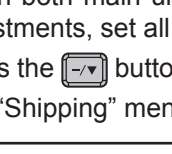
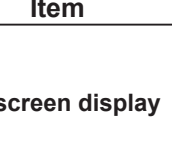

The dot clock frequency is displayed during digital signal input.

H-Freq.	63.98	kHz
V-Freq.	60.02	Hz
Dot Clock Freq.	108.0	MHz
Signal Format	1280×1024/60	

**Note:**

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

# Options Adjustments

- 1  Press to display the Setup menu.
- 2  Press to select "OSD Language".  
 Press for more than 3 seconds.
- 3  Press to select "Options".  
 Press to display the Options menu.
- 4  Press to select your preferred menu.  
 Press to adjust the menu.
- 5  Press to exit from Options menu.



Options		1/2
On screen display	◀ On ▶	
Initial input	◀ Off ▶	
Failover input	◀ Off ▶	
Initial VOL level	◀ Off 0 ▶	
Maximum VOL level	◀ Off 0 ▶	
Input lock	◀ Off ▶	
Button lock	◀ Off ▶	
Remocon User level	◀ Off ▶	






Options		2/2
Off-timer function	◀ Enable ▶	
Initial Power Mode	◀ Normal ▶	
Power ON Screen Delay	◀ Off ▶	
Clock Display	◀ Off ▶	
Power On Message (No activity power off)	◀ On ▶	
Winter Mode	◀ Off ▶	
Power Switch Lock	◀ Off ▶	

























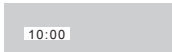

## Normalisation

When both main unit buttons and remote control are disabled due to the "Button lock" or "Remocon User level" 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.

Item	Adjustments
<b>On screen display</b>	<b>On:</b> Displays all the following on screen. <ul style="list-style-type: none"> <li>• Power on display</li> <li>• Input signal switch display</li> <li>• No signal display</li> <li>• Mute and the remaining time of off-timer after  was pressed.</li> </ul> <b>Off:</b> Hides all the items above from view.
<b>Initial input</b>	Adjusts the input signal when the unit is turned on. <b>Off</b> ↔ <b>PC</b> ↔ <b>DVI</b> ↔ <b>HDMI1</b> ↔ <b>HDMI2</b> ↔ <b>Off</b> <b>Notes:</b> <ul style="list-style-type: none"> <li>• Only the adjusted signal is displayed. (see page 17)</li> <li>• This menu is available only when "Input lock" is "Off".</li> </ul>
<b>Failover input</b>	When there is no signal, the specified input is automatically switched to. <b>Off</b> ↔ <b>PC</b> ↔ <b>DVI</b> ↔ <b>HDMI1</b> ↔ <b>HDMI2</b> ↔ <b>Off</b> <b>Notes:</b> <ul style="list-style-type: none"> <li>• When other than "Off" is set, "Input lock" will be grayed out and cannot be set.</li> <li>• When "Input lock" is set to other than "Off", this setting will be grayed out and cannot be set.</li> </ul>
<b>Initial VOL level</b>	Press  button to adjust the volume when the unit is turned on. <b>Off</b> ↔ <b>On</b> <b>Off:</b> Sets normal volume. <b>On:</b> Sets your preferred volume. <b>Notes:</b> <ul style="list-style-type: none"> <li>• When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range.</li> <li>• You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.</li> </ul>
<b>Maximum VOL level</b>	Press  button to adjust the maximum volume. <b>Off</b> ↔ <b>On</b> <b>Off:</b> Sets auto maximum volume. <b>On:</b> Sets your preferred maximum volume. <b>Notes:</b> <ul style="list-style-type: none"> <li>• If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level".</li> <li>• The volume display can go up to 100 regardless of the settings.</li> <li>• You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.</li> </ul>

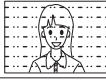







# Options Adjustments

Item	Adjustments
Input lock	<p>Locks the input switch operation.  <b>Off</b> ↔ <b>PC</b> ↔ <b>DVI</b> ↔ <b>HDMI1</b> ↔ <b>HDMI2</b> ↔ <b>Off</b>  <b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Only the adjusted signal is displayed (see page 17).</li> <li>• Input switch can be used when this is set to “Off”.</li> </ul>
Button lock	<p><b>Off</b> ↔ <b>On</b> ↔ <b>MENU&amp;ENTER</b>  <b>Off:</b> All the buttons on main unit can be used.  <b>MENU&amp;ENTER:</b> Locks  and  buttons on main unit.  <b>On:</b> Locks all the button on main unit.  Sets Button lock with the unit buttons in the following procedure.  <b>Off:</b> Press  four times → Press  four times → Press  four times → Press   <b>MENU&amp;ENTER:</b> Press  four times → Press  four times → Press  four times → Press   <b>On:</b> Press  four times → Press  four times → Press  four times → Press </p>
Remocon User level	<p><b>Off</b> ↔ <b>User1</b> ↔ <b>User2</b> ↔ <b>User3</b>  <b>Off:</b> You can use all of the buttons on the remote control.  <b>User1:</b> You can only use , , , ,  buttons on the remote control.  <b>User2:</b> You can only use  button on the remote control.  <b>User3:</b> Locks all the buttons on remote control.</p>
Off-timer function	<p><b>Enable:</b> Enables the “Off-timer function”.  <b>Disable:</b> Disables the “Off-timer function”.  <b>Note:</b> When “Disable” is set, the Off-timer is cancelled.</p>
Initial Power Mode	<p><b>Normal</b> ↔ <b>On</b> ↔ <b>Standby</b>  Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again.  <b>Normal:</b> Power returns in as the same state as before the power interruption.  <b>Standby:</b> Power returns in standby mode. (Power Indicator : red/orange)  <b>On:</b> Power returns in power On. (Power Indicator : green)  <b>Note:</b> When using multiple displays, “Standby” is preferred to be set in order to reduce a power load.</p>
Power ON Screen Delay	<p><b>Off</b> ↔ <b>1</b> ↔ <b>2</b> ↔ <b>3...</b> ↔ <b>30</b>  You can set the power-on delay time of the displays to reduce the power load, when you press /I to turn on the multiple displays that are set together, for example, on MULTI DISPLAY system.  Set each display’s setting individually.  <b>Off:</b> The display will be turned on at the same time as /I is pressed.  <b>1 to 30 (sec.):</b> Set the power-on delay time (second).  After pressing /I, the display will be powered on with time delay depending on this setting.  <b>Notes:</b></p> <ul style="list-style-type: none"> <li>• During this function is working, the power indicator is blinking green.</li> <li>• This function also works when the power recovers from failure or after plugging off and in again the power cord.</li> </ul>
Clock Display	<p><b>Off:</b> Not display the clock.  <b>On:</b> Display the clock.  The clock is displayed at the lower left of the screen when  button is pressed.</p>  <p><b>Note:</b> When “PRESENT TIME Setup” is not set, the clock is not displayed even if “Clock Display” is “On”. (see page 28)</p>
Power On Message (No activity power off)	<p>Whether to show/hide No activity power off Precautions at the time of power ON is set.  <b>On:</b> The warning precautions are shown at the time of power ON.  <b>Off:</b> The warning precautions are not shown at the time of power ON.  <b>Note:</b> This setting is enabled only if “No activity power off” is “Enable” (see page 32).</p>
Winter Mode	<p>Set this function to maintain the image quality when the product is used in a low temperature environment of 39 °F/4 °C or lower.  <b>Off:</b> Normal standby operation  <b>On:</b> Image is muted at standby and backlight is turned on when the inside temperature of the display is 32 °F/0 °C or lower to prevent decreasing the temperature. Backlight is turned off when the inside temperature is 50 °F/10 °C or higher.  When this function is set to “On”, the following message appears at standby.</p>  <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Do not unplug the power cable while using the product with this function “On”.</li> <li>• When this function is set to “On”, the power consumption at standby is approx. 110 W.</li> <li>• Turn this function “Off” to use this product in an environment of 39 °F/4 °C or higher.</li> <li>• The fans spin while this is set to “On” even if the Display is in standby mode.</li> </ul>
Power Switch Lock	<p>Sets the lock setting for the display Power switch.  <b>On:</b> Power switch operation is disabled.  <b>Off:</b> Power switch operation is enabled.</p>




# 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 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.
Parts of the unit become hot.		Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises will not pose any problems in terms of performance or quality.
Power automatically turns off unexpectedly.		Check the settings of "Power management", "No signal power off" and "No activity power off" in the Setup menu. Any of them may be set to "On (Enable)". (see page 32)
The fans become louder.		The fans become louder because they run faster to cool the inside of the Display as the temperature is raised. The product is fitted with cooling fans.
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.		
<b>For TH-47LFT30W</b>		
The display screen of the Display is equipped with touch panel. Touch panel devices are inside the glass. How noticeable they are depends on the way in which they are exposed to light. So, note that it is not a failure.		

## 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.
 Image retention appears	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.
Whirring sounds can be heard from the display unit.	The Display is equipped with fans. The whirring sound is caused by rotation of the fan and is not a malfunction.

# Applicable Input Signals

## PC signals

\*Mark: Applicable input signal

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	PC IN (Dot clock (MHz))	DVI-D IN (Dot clock (MHz))	HDMI1 HDMI2
1	640x400@70Hz	31.46	70.07	*(25.17)	*(25.17)	
2	640x400@85Hz	37.86	85.08	*(31.5)	*(31.5)	
3	640x480@60Hz	31.43	59.88	*(25.15)	*(25.15)	
4	640x480@60Hz	31.47	59.94	*(25.18)	*(25.18)	*
5	640x480@67Hz	35.00	66.67	*(30.24)	*(30.24)	
6	640x480@72Hz	37.86	72.81	*(31.5)	*(31.5)	
7	640x480@75Hz	37.50	75.00	*(31.5)	*(31.5)	
8	640x480@85Hz	43.27	85.01	*(36.0)	*(36.0)	
9	720x400@70Hz	31.47	70.08	*(28.32)	*(28.32)	
10	800x600@55Hz	34.50	55.38	*(35.33)	*(35.33)	
11	800x600@56Hz	35.16	56.25	*(36.0)	*(36.0)	
12	800x600@60Hz	37.88	60.32	*(40.0)	*(40.0)	*
13	800x600@60Hz	38.00	60.51	*(40.13)	*(40.13)	
14	800x600@72Hz	48.08	72.19	*(50.0)	*(50.0)	
15	800x600@75Hz	46.88	75.00	*(49.5)	*(49.5)	
16	800x600@85Hz	53.67	85.06	*(56.25)	*(56.25)	
17	852x480@60Hz	31.47	59.94	*(33.54)	*(34.24)	
18	1,024x768@50Hz	39.55	50.00	*(51.89)	*(51.89)	
19	1,024x768@60Hz	48.36	60.00	*(65.0)	*(65.0)	*
20	1,024x768@60Hz	48.50	60.02	*(64.99)	*(65.18)	
21	1,024x768@70Hz	56.48	70.07	*(75.0)	*(75.0)	
22	1,024x768@75Hz	60.24	74.93	*(80.0)	*(80.0)	
23	1,024x768@75Hz	60.02	75.03	*(78.75)	*(78.75)	
24	1,024x768@75Hz	61.01	75.70	*(80.05)	*(81.0)	
25	1,024x768@85Hz	68.68	85.00	*(94.5)	*(94.5)	
26	1,024x768@120Hz	97.55	119.99	*(115.5)	*(115.5)	
27	1,066x600@60Hz	37.64	59.94	*(53.0)	*(53.0)	
28	1,152x864@60Hz	53.70	60.00	*(81.62)	*(81.62)	
29	1,152x864@75Hz	67.50	75.00	*(108.0)	*(108.0)	
30	1,152x900@65Hz	61.20	65.20	*(92.0)	*(92.0)	
31	1,152x900@66Hz	61.85	66.00	*(94.5)	*(94.5)	
32	1,152x900@75Hz	71.40	75.60	*(105.1)	*(105.1)	
33	1,280x768@60Hz	47.78	59.87	*(79.50)	*(79.50)	
34	1,280x800@50Hz	41.20	50.00	*(68.55)	*(68.55)	
35	1,280x960@60Hz	60.00	60.00	*(108.0)	*(108.0)	
36	1,280x960@85Hz	85.94	85.00	*(148.5)	*(148.5)	
37	1,280x1,024@50Hz	52.70	50.00	*(89.38)	*(89.38)	
38	1,280x1,024@60Hz	63.34	59.98	*(108.18)	*(108.18)	
39	1,280x1,024@60Hz	63.90	60.00	*(107.35)	*(107.35)	
40	1,280x1,024@60Hz	63.37	60.01	*(107.5)	*(107.5)	
41	1,280x1,024@60Hz	63.74	60.02	*(108.1)	*(108.1)	
42	1,280x1,024@60Hz	63.98	60.02	*(108.0)	*(108.0)	*
43	1,280x1,024@60Hz	63.79	60.18	*(108.19)	*(108.19)	
44	1,280x1,024@66Hz	70.66	66.47	*(119.84)	*(119.84)	
45	1,280x1,024@75Hz	79.98	75.02	*(135.0)	*(135.0)	
46	1,280x1,024@76Hz	81.13	76.11	*(135.0)	*(135.0)	
47	1,280x1,024@85Hz	91.15	85.02	*(157.5)	*(157.5)	
48	1,360x768@60Hz	47.71	60.02	*(85.5)	*(85.5)	
49	1,366x768@50Hz	39.55	50.00	*(69.92)	*(69.92)	
50	1,366x768@60Hz	48.36	60.00	*(86.71)	*(87.44)	
51	1,400x1,050@60Hz	65.12	59.91	*(121.38)	*(122.43)	
52	1,400x1,050@60Hz	65.32	59.98	*(121.75)	*(121.75)	
53	1,400x1,050@60Hz	65.35	60.12	*(121.81)	*(121.85)	
54	1,400x1,050@75Hz	82.28	74.87	*(156.0)	*(156.0)	
55	1,600x1,200@60Hz	75.00	60.00	*(162.0)	*(162.0)	
56	1,920x1,080@60Hz	67.50	60.00	*(148.5)	*(148.5)	
57	1,920x1,200@60Hz	74.04	59.95	*(154.0)	*(154.0)	
58	Macintosh13" (640x480)	35.00	66.67	*(30.24)	*(30.24)	
59	MacintoshLC13" (640x480)	34.97	66.60	*(31.33)	*(31.33)	
60	Macintosh16" (832x624)	49.72	74.55	*(57.28)	*(57.28)	
61	Macintosh19" (1,024x768)	60.24	75.08	*(80.0)	*(80.0)	
62	Macintosh21" (1,152x870)	68.68	75.06	*(100.0)	*(100.0)	
63	Macintosh II (1,280x1,024)	80.00	75.00	*(134.4)	*(135.2)	

## Applicable Input Signals


### Component signals

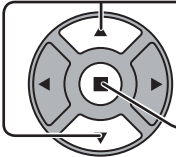
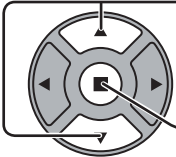
\*Mark: Applicable input signal

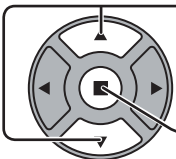
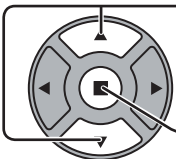
	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	DVI-D IN (Dot clock (MHz))	HDMI1 HDMI2
1	525(480)/60i	15.73	59.94	* (27.0)	*
2	525(480)/60p	31.47	59.94	* (27.0)	*
3	625(575)/50i	15.63	50.00		
4	625(576)/50i	15.63	50.00	* (27.0)	*
5	625(575)/50p	31.25	50.00		*
6	625(576)/50p	31.25	50.00	* (27.0)	*
7	750(720)/60p	45.00	60.00	* (74.25)	*
8	750(720)/50p	37.50	50.00	* (74.25)	*
9	1,125(1,080)/60p	67.50	60.00	* (148.5)	*
10	1,125(1,080)/60i	33.75	60.00	* (74.25)	*
11	1,125(1,080)/50p	56.25	50.00	* (148.5)	*
12	1,125(1,080)/50i	28.13	50.00	* (74.25)	*
13	1,125(1,080)/24sF	27.00	48.00		
14	1,125(1,080)/30p	33.75	30.00	* (74.25)	*
15	1,125(1,080)/25p	28.13	25.00	* (74.25)	*
16	1,125(1,080)/24p	27.00	24.00	* (74.25)	*

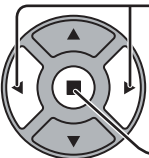
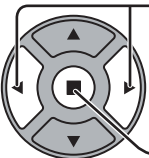
# Shipping condition

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


**1**  Press to display the Setup menu.

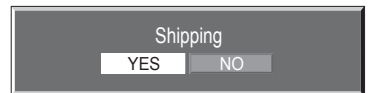
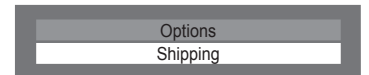
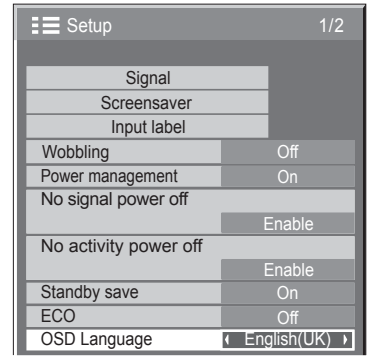
**2**  Press to select "OSD Language".  
 Press for more than 3 seconds.

**3**  Press to select "Shipping".  
 Press to display the Shipping menu.

**4**  Press to select "YES".  
 Press to confirm.

**5** Wait for 10 seconds.

**6**  Press the power switch (⏻/⏻) on main unit to turn the power off.  
\* If the power switch is locked, please disconnect the AC cord plug from the wall outlet.



[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.  
\* If the power switch is locked, please disconnect the AC cord plug from the wall outlet.

# Specifications

		TH-47LFT30W / TH-47LFX30W	
		For USA, Canada and Mexico	For Europe and Asia
<b>Power Source</b>		110 - 127 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
<b>Power Consumption</b>			
Power on		310 W	300 W
Stand-by condition (Winter Mode: Off)		Save off 0.2 W, Save on 0.1 W	Save off 0.3 W, Save on 0.2 W
Stand-by condition (Winter Mode: On)		Backlight Off 40 W Backlight On 110 W	Backlight Off 40 W Backlight On 110 W
Power off condition		0.1 W	0.2 W
<b>LCD Display panel</b>		47-inch IPS panel, 16:9 aspect ratio	
<b>Screen size</b>		40.9" (W) × 23.0" (H) × 46.9" (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]	
<b>Operating condition</b>			
Temperature		32 °F - 113 °F / 0 °C - 45 °C* (during Winter Mode: -4 °F - 113 °F / -20 °C - 45 °C)*	
<b>Applicable signals</b>			
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 signals		VGA, SVGA, XGA, SXGA UXGA ··· (compressed) Horizontal scanning frequency 30 - 110 kHz Vertical scanning frequency 48 - 120 Hz	
<b>Connection terminals</b>			
HDMI 1/2		TYPE A Connector	
DVI-D IN	AUDIO	DVI-D 24 Pin Content Protection Stereo mini jack (M3) × 1	Compliance with DVI Revision 1.0 Compatible with HDCP 1.1 0.5 Vrms, Shared with PC IN
PC IN		High-Density Mini D-sub 15 Pin	G with sync 1.0 Vp-p (75 Ω) G without sync 0.7 Vp-p (75 Ω) B: 0.7 Vp-p (75 Ω) R: 0.7 Vp-p (75 Ω) HD/VD: 1.0 - 5.0 Vp-p (high impedance) 0.5 Vrms, Shared with DVI-D IN
	AUDIO	Stereo mini jack (M3) × 1	
SERIAL		External Control Terminal D-sub 9 Pin	RS-232C compatible
TOUCH PANEL (For TH-47LFT30W)		USB2.0 compatible I/F connector: TYPE B	
EXT SP		8 Ω, 10 W [5 W + 5 W] (10 % THD)	
<b>Dimensions (W × H × D)</b>		45.3" × 27.4" × 10.7" / 1,149 mm × 694 mm × 271 mm	
<b>Mass (weight)</b>		approx. 136.7 lbs / 62.0 kg	

\* Use the product at ambient temperatures below 104 °F/40 °C at an installation site where the liquid crystal panel is exposed to sunlight.

## Notes:

- Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.
- This equipment complies with the EMC standards listed below.  
EN55022, EN55024, EN61000-3-2, EN61000-3-3.

## Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### [Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

### Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.



Cd

USA only: This product has a fluorescent lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: <http://www.panasonic.com/environmental> or call 1-888-769-0149.

### 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 \_\_\_\_\_

Pursuant to the directive 2004/108/EC, article 9(2)

Panasonic Testing Centre

Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, F.R. Germany

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## Panasonic Corporation

Web Site : <http://panasonic.net>

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