# **Panasonic**

# **Operating Instructions**

FULL HD LCD Display For business use

English

**Español** 

Français

Model No TH-42LF8U

TH-49LF8U

TH-55LF8U

**TH-42LF80U** 

**TH-49LF80U** 

TH-55LF80U

42-inch model

49-inch model

55-inch model

42-inch model

49-inch model

55-inch model

For more detailed instructions, refer to the Operating Instructions on the CD-ROM.

#### **Contents**

mportant Safety Instructions · · · · · 2
FCC STATEMENT ······ 3
mportant Safety Notice 4
Safety Precautions · · · · · 4
Precautions for use ······ 7
Accessories 8
Connections ······11
dentifying Controls · · · · · 14
Basic Controls······ 16
Specifications ····· 18
Software License ····· 20
Panasonic Professional Flat Panel Display Limited Warranty 21
LIMITED WARRANTY STATEMENT 22
Customer Service · · · · · 23

- · Please read these instructions before operating your set and retain them for future reference.
- · Illustrations and screens in this Operating Instructions are images for illustration purposes, and may be different from the actual ones.
- · Descriptive illustrations in this Operating Instructions are created mainly based on the 55-inch model.





# CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



WARNING: To reduce the risk of electric shock, do not remove cover or back.

No user-serviceable parts inside. Refer servicing to qualified service personnel.



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



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

#### WARNING:

To prevent damage which may result in fire or shock hazard, do not expose this apparatus to rain or moisture.

Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set.

(including on shelves above, etc.)

#### WARNING:

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

Do not defeat the purpose of the grounding plug.

# Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 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 A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### FCC CAUTION:

To assure continued compliance, follow the attached installation instructions and use only the provided power supply cord. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

Declaration of Verification

Model No.

TH-42LF8U, TH-49LF8U, TH-55LF8U, TH-42LF80U, TH-49LF80U. TH-55LF80U

Responsible Party:

Panasonic Corporation of North America Two Riverfront Plaza, Newark, New Jersey 07102-5490

#### Contact Source:

Panasonic System Communications Company of North America

1-877-655-2357

#### General Contact:

http://www.panasonic.com/contactinfo

This device complies with Part 15 of the FCC Rules and all applicable IC RSS standards. 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.

#### **CANADIAN NOTICE:**

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

#### WARNING:

- Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/ Data Processing Equipment, ANSI/NFPA 75.
- For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring.
- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible

#### 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 when a general moving picture is displayed for a while.

#### **Trademark Credits**

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- Macintosh, Mac, Mac OS, OS X and Safari are the trademarks of Apple Inc. registered in the United States and other countries.
- PJLink is a registered or pending trademark in Japan, the United States, and other countries and regions.
- 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.
- JavaScript is a registered trademark or a trademark of Oracle Corporation and its subsidiary and associated companies in the United States and/or other countries.
- RoomView, Crestron RoomView and Fusion RV are registered trademarks of Crestron Electronics, Inc.
   Crestron Connected is the trademark of Crestron Electronics, Inc.

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

# Important Safety Notice

#### WARNING

 To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.

Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

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

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

Do not defeat the purpose of the earthing plug.

 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.

# **Safety Precautions**

#### WARNING

#### ■ Setup

This LCD Display is for use only with the following optional accessories.

Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Panasonic Corporation.)

Pedestal

TY-ST43PE8

Digital Interface Box

ET-YFB100G

DIGITAL LINK Switcher

ET-YFB200G

 Early Warning Software ET-SWA100 series\*1

Video Wall Manager

TY-VUK10\*2

- \*1: Suffix of the part number may differ depending on the license type.
- \*2: Supports Ver1.1 or later.

#### Note

 The part number of the optional accessories are subject to change without notice.

We are not responsible for any product damage, etc. caused by failures in the installation environment for the pedestal or wall-hanging bracket even during the warranty period.

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

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

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

· The Display may fall off or tip over.

Install this unit at a location with minimal vibration and which can support the weight of the unit.

 Dropping or falling of the unit may cause injury or malfunction.

Do not place any objects on top of the Display.

 If foreign objects or water get inside the Display, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Display, please consult your local Panasonic dealer.

Transport only in upright position!

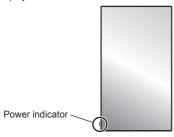
 Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

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

For sufficient ventilation, see page 7.

Caution - For use only with UL Listed Wall Mount Bracket with minimum weight/load 24.7 kg (54.5 lbs). When installing the Display vertically:

When installing the Display vertically, be sure that the Power Indicator comes to the downside. Heat is generated and it may cause fire or damage to the Display.



#### Cautions for Wall or Pedestal Installation

- Wall or Pedestal installation should be performed by an installation professional. Installing the Display incorrectly may lead to an accident that results in death or serious injury. Use the optional Pedestal.
- When installing on a wall, a wall hanging bracket that conforms to VESA standards must be used.

42-inch model : VESA 200×200
49-inch model 55-inch model : VESA 400×400
(see page 7)

- If you terminate the use of the Display on the Wall or Pedestal, ask a professional to remove the Display as soon as possible.
- When mounting the Display on the wall, prevent the mounting screws and power cable from contacting metal objects inside the wall. An electric shock may occur if they contact metal objects inside the wall.

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

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

#### ■ When using the LCD Display

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

Do not cover the ventilation holes.

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

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

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

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

· High voltages which can cause severe electric shocks

are present inside the Display. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

Ensure that the mains plug is easily accessible.

The mains plug shall be connected to a mains socket outlet with a protective earthing connection.

Do not use any power supply cord other than that

 Doing so may cause short-circuit, generates heat, etc., which could cause electric shock or fire.

Do not use the supplied power supply cord with any other devices.

· Doing so could cause electric shock or fire.

provided with this unit.

# 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.

# Do not remove covers and NEVER modify the Display yourself

- Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside. (High-voltage components may cause serious electrical shock.)
- Have the Display checked, adjusted, or repaired at vour local Panasonic dealer.

Keep the supplied AAA/R03/UM4 batteries out of reach of children. If accidentally swallowed, it will be harmful to the body.

 Please contact a doctor immediately in case you doubt that the child may have swallowed it.

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

Picture noise may occur if you connect / disconnect the connection cables of the input terminals you are currently not watching, or if you turn the power of the video equipment on / off, but it is not a malfunction.

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



#### **A** CAUTION

If problems or malfunction occur, stop using immediately.

#### If problems occur, unplug the power supply plug.

- · Smoke or an abnormal odour come out from the unit.
- No picture appears or no sound is heard, occasionally.
- Liquid such as water or foreign objects got inside the unit
- · The unit has deformed or broken parts.

# If you continue to use the unit in this condition, it could result in fire or electric shock.

- Turn the power off immediately, unplug the power supply plug from the wall outlet, and then contact the dealer for repairs.
- To cut off the power supply to this Display completely, you need to unplug the power supply plug from the wall outlet.
- Repairing the unit yourself is dangerous, and shall never be done.
- To enable to unplug the power supply plug immediately, use the wall outlet which you can reach easily.

#### ■ When using the LCD Display

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

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

# At least 2 people are required to carry or unpack this unit.

If this is not observed, the unit may drop, resulting in injury

# 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 step on, or hang from the display or the Pedestal.

 They might tip over, or might be broken and it may result in injury. Pay special attention to the children.

Do not reverse the polarity (+ and -) of the battery when inserting.

- Mishandling the battery may cause its explosion or leakage, resulting in fire, injury or damage to surrounding properties.
- Insert the battery correctly as instructed. (see page 9)

# Remove the batteries from the remote control transmitter when not using for a long period of time.

 The battery may leak, heat, ignite or burst, resulting in fire or damage to surrounding properties.

#### Do not burn or breakup batteries.

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

#### Do not turn the Display upside down.

Do not position the unit with its display panel facing upright.

## Precautions for use

#### Cautions when installing

Do not set up the Display outdoors.

· The Display is designed for indoor use.

#### Environmental temperature to use this unit

- When using the unit where it is below 1 400 m (4 593 ft) above sea level: 0 °C to 40 °C (32 °F to 104 °F)
- When using the unit at high altitudes (1 400 m (4 593 ft) and higher and below 2 800 m (9 186 ft) above sea level): 0 °C to 35 °C (32 °F to 95 °F)

# Do not install the unit where it is 2 800 m (9 186 ft) and higher above sea level.

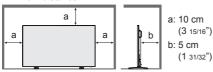
 Failure to do so may shorten the life of the internal parts and result in malfunctions.

#### Required space for ventilation

When using the pedestal (optional accessory), leave a space of 10 cm (3  $_{15/16}$ ") or more at the top, left and right, and 5 cm (1  $_{31/32}$ ") or more at the rear, and also keep the space between the bottom of the display and the floor surface.

If using some other setting-up method (wall-hanging, etc), follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 10 cm (3 15/16") or more at the top, bottom, left and right, and 5 cm (1 31/32") or more at the rear.)

#### Minimum distance:

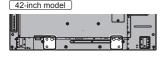


# About the screws used when using a wall hanging bracket that conforms to VESA standards

Inch model	Screw pitch for installation	Depth of screw hole	Screw (quantity)
42	200 mm × 200 mm	10 mm	M6 (4)
49	400 mm × 400 mm	10 mm	M6 (4)
55	400 mm × 400 mm	10 mm	M6 (4)

When installing, do not use the screw holes (situated at the bottom of the display's back) as shown in the following figures.

It may damage the LCD panel.



49-inch model



55-inch model

# Be careful of the movable structure of the power indicator and remote control sensor.

 As factory default, the power indicator and remote control sensor are stored in the main unit. For normal use, pull out the remote control sensor from the edge side of the main unit by operating the lever on the rear panel. Depending on the setup condition such as when using the multi display, store the remote control sensor in the main unit. (see page 14)

#### Do not grab the liquid crystal panel.

 Do not forcibly press the liquid crystal panel, or push it with a pointed object. Applying a strong force to the liquid crystal panel will cause unevenness of the screen display, resulting in malfunction.

# Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction.

 This unevenness will disappear while applying current continuously. If not, consult the distributor.

#### Cleaning and maintenance

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

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

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

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber

or PVC

#### Usage of a chemical cloth

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

#### Wired LAN

When setting up the Display at a place, where electric statistic occurs often, take a sufficient antistatic measure before start using.

- When the Display is used at a location, where static electricity occurs often, such as on a carpet, communications of the wired LAN or DIGITAL LINK are disconnected more often. In that case, remove static electricity and the noise source that may cause problems with an antistatic mat, and re-connect the wired LAN or DIGITAL LINK.
- In rare cases, the LAN connection is disabled due to static electricity or noise. In that case, turn off the power of the Display and the connected devices once and then re-turn on the power.

The Display may not work properly due to strong radio wave from the broadcast station or the radio.

 If there is any facility or equipment, which outputs strong radio wave, near the installation location, set up the Display at a location sufficiently far from the source of the radio wave. Or, wrap the LAN cable connected to the DIGITAL LINK / LAN terminal by using a piece of metal foil or a metal pipe, of which is grounded at both ends.

#### **Disposal**

When disposing the product, ask your local authority or dealer about the correct methods of disposal.

## Accessories

#### **Accessories Supply**

Check that you have the accessories and items shown

Operating Instructions (Book)



Operating Instructions (CD-ROM)



#### **Remote Control Transmitter**

N2QAYA000099



Batteries for the Remote Control Transmitter

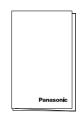
(AAA/R03/UM4 type × 2)



Clamper × 3



Warranty card × 1



Power supply cord (Approx. 2 m)



#### Attention

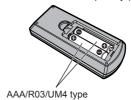
- Store small parts in an appropriate manner, and keep them away from young children.
- In case you lost accessories, please consult your dealer.
- Dispose the packaging materials appropriately after taking out the items.

#### **Remote Control 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 environmentfriendly manner.

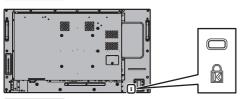
#### Observe the following precaution:

- 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.
- 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.

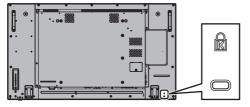
# **Kensington security**

This security slot is compatible with the Kensington security cables.

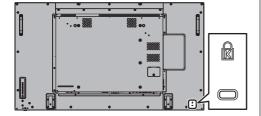




49-inch model



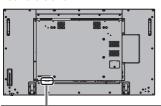
55-inch model



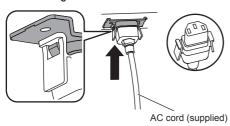
# **Connections**

#### AC cord connection and fixing

#### Back of the unit



#### AC cord fixing



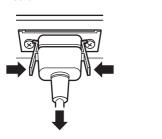
#### Plug the connector into the display unit.

Plug the AC cord until it clicks.

#### Note

 Make sure that the AC cord is locked on both the left and right sides.

#### Unplug the AC cord



#### Note

 When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first

Unplug the connector pressing the two knobs.

The supplied AC cord set is for this unit exclusive use.
 Do not use this for other purposes.

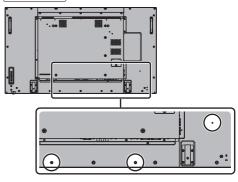
#### Cable fixing

#### Note

 3 clampers are supplied with this unit. Fix the cables at 3 locations using the holes of clampers as shown below.

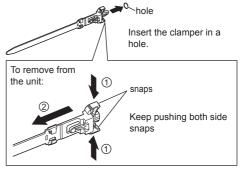
If you need more clampers, purchase them from your dealer. (Available from the customer service)

#### 55-inch model

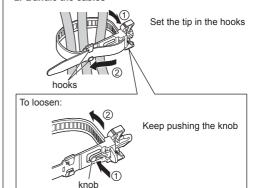


 The position of the holes are the same for 42-inch and 49-inch models.

#### 1. Attach the clamper



#### 2. Bundle the cables



#### Video equipment connection -12 LF8 AUDIO2 IN ⊕ AUDIO OUT ⊕ H⊒MI AVIN⊕ LF80 AUDIO1 IN ⊕ COMPONENT/RGB/VIDEO IN ⊕ AUDIO2 IN ⊕ AUDIO OUT ⊕ DIGITAL LINK i

1	PC IN:	PC Input Terminal	7	DVI-D IN,	DVI-D Input / Output Terminal
		Connect to video terminal of PC, video equipment with "YPBPR / YCBCR" or "RGB" output.		DVI-D OUT:	Connect to video equipment with DVI-D output. Also, when displaying the picture by daisy
2	AUDIO1 IN:	Audio input terminal shared with DVI-D IN and PC IN			chaining multiple displays, connect to the other display.
3	COMPONENT / RGB / VIDEO IN:	COMPONENT / RGB Video Input Terminal (R/PR/CRB/PB/ CBG/Y)	8	USB:	USB Memory Terminal  Connect the USB memory to use the USB media player function.  Also, this can be used to supply
		Connect to video equipment with "YPBPR / YCBCR" or "RGB" output.			power of up to 5V/1A to an external device when receiving images.
		Composite Video Input Terminal (VIDEO)	9	LAN:	LAN Terminal (LF8 series only)
		Connect to video equipment with Composite signal output.			Control the Display by connecting to Network.
4	AUDIO2 IN:	Audio Input Terminal shared with COMPONENT/RGB IN and	10	DIGITAL LINK / LAN:	DIGITAL LINK Input Terminal (LF80 series only)
		VIDEO IN			Control the Display by connecting to Network.
5	AUDIO OUT:	Analogue Audio Output Terminal			Alternatively, connect to a device that sends video and audio
		Connect to audio equipment with analogue audio input terminal.			signals via the DIGITAL LINK terminal.
6	AV IN	HDMI Input Terminal	_		
	(HDMI 1, HDMI 2):	Connect to video equipment such as VCR or DVD player, etc.			

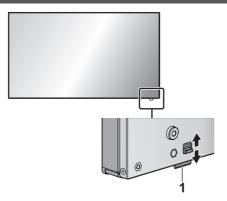
11 IR IN, IR OUT:	Infrared Signal Input / Output Terminal
	Use this when operating more than one display with one remote control.
12 SERIAL IN, SERIAL OUT:	SERIAL Input / Output Terminal Control the Display by connecting
	to PC.

#### **Before connecting**

- Before connecting cables, carefully read the operating instructions for the external device to be connected.
- Turn off the power of all devices before connecting cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
  - When connecting a cable to the unit or a device connected to the unit itself, touch any nearby metallic objects to eliminate static electricity from your body before performing work.
  - Do not use unnecessarily long cables to connect a device to the unit or to the unit body. The longer the cable, the more susceptible to noise it becomes. Since using a cable while it is wound makes it act like an antenna, it is more susceptible to noise.
  - When connecting cables, connect GND first, then insert the connecting terminal of the connecting device in a straight manner.
- Acquire any connection cable necessary to connect the external device to the system that is neither supplied with the device nor available as an option.
- If the outer shape of the plug of a connection cable is large, it may come in contact with the plug of an adjacent connection cable. Use a connection cable with the suitable plug size for the terminal alignment.
- If video signals from video equipment contain too much jitter, the images on the screen may wobble.
   In this case, a time base corrector (TBC) must be connected.
- When the sync signals output form PC or video equipment are disturbed, for example, when changing settings of video output, the colour of the video may be disturbed temporarily.
- The unit accepts Composite video signals, YC<sub>B</sub>C<sub>R</sub>/ YP<sub>B</sub>P<sub>R</sub> signals, analogue RGB signals and digital signals.
- Some PC models are not compatible with the unit.
- Use cable compensator when you connect devices to the unit using long cables. Otherwise the image may not display properly.

# **Identifying Controls**

#### Main Unit



 The power indicator and remote control sensor can be pulled out by sliding the lever on the rear panel.
 To store the part, press it directly.

#### Note

 For normal use, pull out the power indicator and remote control sensor from the edge side of the main unit by operating the lever on the rear panel.
 Depending on the setup condition such as when using the multi display, store them in the main unit.

#### 1 Power Indicator / Remote control sensor

The Power Indicator will light.

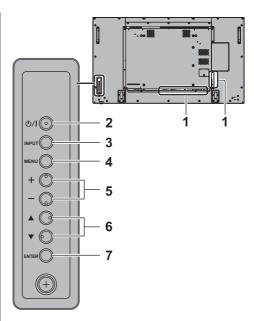
# When the power of the unit is ON (Main Power On / Off button: ON)

- · Picture is displayed: Green
- Power OFF (Standby) with remote control: Red When [Network control] is set to [On]: Orange (Red/Green)
- Power OFF with "Power management" function: Orange (Red/Green)

# When the power of the unit is OFF (Main Power On / Off button: OFF): No light

#### Note

- The unit will still consume some power as long as the power cord is still inserted into the wall outlet.
- When the power indicator is orange, power consumption during standby is generally larger than that of when the power indicator is red.



#### 1 External Input Terminal

 Connects to video equipment, PC, etc. (see page 12)

#### 2 <Main Power On / Off button>

Turns the power On / Off.

#### 3 <INPUT (Unit)> (INPUT signal selection)

Selects the connected device.

#### 4 <MENU (Unit)>

 Each time the <MENU (Unit)> button is pressed, the menu screen will switch.

#### 5 <+ (Unit)> / <- (Unit)>

- Adjusts the volume.
- On the main screen, switches settings or adjusts settings level.

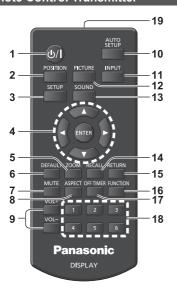
#### 6 < ▲ (Unit)> / < ▼ (Unit)>

· Selects the setting item.

#### 7 <ENTER (Unit)>

- · Configures the item on menu screen.
- Switches aspect mode.

#### **Remote Control Transmitter**



#### 1 Standby (ON/OFF) button (也/I)

 Turns the power on or off when the Display is turned on at the <Main Power On / Off button>. (see page 16)

#### 2 POSITION

#### 3 SETUP

#### 4 ENTER / Cursor buttons (▲ ▼ ◀▶)

• Used to operate the menu screens.

#### 5 ZOOM

Enters the digital zoom mode.

#### 6 DEFAULT

 Resets the settings of picture, sound, etc., to defaults.

#### 7 MUTE

Sound mute on / off.

#### 8 ASPECT

Adjusts the aspect.

#### 9 VOL + / VOL -

· Adjusts sound volume level.

#### 10 AUTO SETUP

Automatically adjusts the position/size of the screen

#### 11 INPUT

Switches input to display on the screen.

#### 12 PICTURE

13SOUND

#### 14RECALL

 Displays the current setting status of Input mode, Aspect mode, etc.

#### 15 RETURN

· Used to return to the previous menu.

#### **16FUNCTION**

#### 17 OFF TIMER

Switches to stand-by after a fixed period.

#### 18 Numeric buttons (1 - 6)

 Used as shortcut buttons by assigning frequently used operations.

#### 19 Signal emission

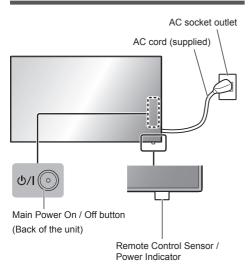
#### Note

 In this manual, buttons of the remote control and the unit are indicated as < >.

#### (Example: <INPUT>.)

The operation is mainly explained indicating the remote control buttons but you can also operate with the buttons on the unit when there are the same buttons.

## **Basic Controls**



Operate pointing the remote control directly at the unit's Remote Control Sensor.



#### Note

- For normal use, pull out the remote control sensor from the edge side of the main unit by operating the lever on the rear panel. (see page 14)
- Do not put an obstacle between the remote control sensor of the main unit and the remote control.
- Operate the remote control in front of the remote control sensor or from the area where the sensor can be seen.
- Do not subject the remote control sensor of the main unit to the direct sunlight or strong fluorescent light.

# 1 Connect the AC cord plug to the Display.

(see page 11)

#### 2 Connect the plug to the socket outlet.

#### Note

- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first
- The settings may not be saved if the power plug is disconnected immediately after changing settings with on-screen menu. Disconnect the power plug after a enough period of time. Or, disconnect the power plug after turning the power off with the remote control, RS-232C control or LAN control.

#### 3 Press the <Main Power On / Off button> on the unit to turn the set on: Power-On.

- Power Indicator: Green (Picture is displayed.)
- When the power of the unit is ON, remote control operation is possible.

# ■ To turn the power ON/OFF with the remote control

Press the <Standby (ON/OFF) button> to turn the Display on.

Power Indicator: Green (Picture is displayed.)

Press the <Standby (ON/OFF) button> to turn the Display off.

· Power Indicator: Red (standby)

Press the <Main Power On / Off button> on the unit to turn the unit off, when the power of the unit is turned on or in standby mode.

#### Note

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

#### $\blacksquare$ When the Unit is turned on for the first time

Following screen will be displayed.

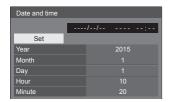
1 Select the language with ▲ ▼ and press <ENTER>.



2 Select [Year] / [Month] / [Day] / [Hour] / [Minute] with ▲ ▼ and set with ◀ ►.



3 Select [Set] with ▲ ▼ and press <ENTER>.



4 For vertical installation, select [Portrait] with ▲ ▼ and press <ENTER>.



#### Note

 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]

[Date and time]

[Display orientation]

#### ■ Power ON message

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

#### No activity power off Precautions

'No activity power off' is enabled.

When [No activity power off] in the [Setup] menu is set to [Enable], a warning message is displayed every time the power is turned ON.

#### "Power management" Information

Last turn off due to 'Power management'.

When "Power management" is functioned, an information message is displayed every time the power is turned ON.

These message displays can be set with the following menu:

[Options] menu

Power on message(No activity power off)

Power on message(Power management)

# **Specifications**

#### Model No.

42-inch model : TH-42LF8U

49-inch model : TH-49LF8U

55-inch model : TH-55LF8U

42-inch model : TH-42LF80U

49-inch model : TH-49LF80U

55-inch model ]: TH-55LF80U

#### **Power Consumption**

42-inch model

145 W (LF8)

155 W (LF80)

49-inch model

160 W (LF8)

175 W (LF80)

55-inch model

185 W (LF8)

190 W (LF80)

#### Power off condition

0.3 W

#### Stand-by condition

0.5 W

#### LCD Display panel

#### 42-inch model

42-inch IPS panel (Edge LED backlight), 16:9 aspect ratio

#### 49-inch model

49-inch IPS panel (Edge LED backlight), 16:9 aspect ratio

#### 55-inch model

55-inch IPS panel (Edge LED backlight), 16:9 aspect ratio

#### Screen size

#### 42-inch model

927 mm (W) × 521 mm (H) × 1 064 mm (diagonal) / 36.5" (W) × 20.5" (H) × 41.9" (diagonal)

#### 49-inch model

1 073 mm (W)  $\times$  604 mm (H)  $\times$  1 232 mm (diagonal) / 42.2" (W)  $\times$  23.7" (H)  $\times$  48.5" (diagonal)

#### 55-inch model

1 209 mm (W)  $\times$  680 mm (H)  $\times$  1 387 mm (diagonal) / 47.6" (W)  $\times$  26.7" (H)  $\times$  54.6" (diagonal)

#### (No. of pixels)

2 073 600 (1 920 (W) × 1 080 (H))

#### Dimensions (W × H × D)

42-inch model

947 mm × 541 mm × 72 mm (57 mm: without handles) /

37.3" × 21.3" × 2.8" (2.3"; without handles)

#### 49-inch model

1 093 mm × 623 mm × 72 mm (57 mm: without handles) /

43.1" × 24.6" × 2.8" (2.3": without handles)

#### 55-inch model

1 229 mm × 699 mm × 72 mm (57 mm: without handles) /

48.4" × 27.6" × 2.8" (2.3": without handles)

#### Mass

42-inch model

approx. 15.3 kg / 33.8 lbs net

49-inch model

approx. 19 kg / 41.9 lbs net

55-inch model

approx. 24.7 kg / 54.5 lbs net

#### Power source

110 - 127 V AC, 50/60 Hz

#### Operating condition

#### Temperature

0 °C to 40 °C (32 °F to 104 °F)\*1

#### Humidity

20 % to 80 % (no condensation)

#### Storing condition

#### Temperature

-20 °C to 60 °C (-4 °F to 140 °F)

#### Humidity

20 % to 80 % (no condensation)

#### Connection terminals

#### HDMI 1

#### HDMI 2

TYPE A Connector\*2 × 2

Audio signal:

Linear PCM (sampling frequencies - 48 kHz, 44.1 kHz, 32 kHz)

#### DVI-D IN

DVI-D 24 Pin:

Compliance with DVI Revision 1.0

Content Protection:

Compatible with HDCP 1.1

#### DVI-D OUT

DVI-D 24 Pin:

Compliance with DVI Revision 1.0

Content Protection:

Compatible with HDCP 1.1

#### COMPONENT/RGB IN

Y/G

BNC terminal 1.0 Vp-p (75  $\Omega$  ) (with sync)

Рв/Св/В

BNC terminal 0.7 Vp-p (75  $\Omega$  ) (without sync)

PR/CR/R

BNC terminal 0.7 Vp-p (75  $\Omega$  ) (without sync)

#### VIDEO IN

**VIDEO** 

BNC terminal 1.0 V [p-p] (75  $\Omega$ )

Also used as Y/G terminal

#### PC IN

High-Density Mini D-sub 15 Pin:

Compatible with DDC2B

Y/G:

1.0 Vp-p (75  $\Omega$ ) (with sync)

 $0.7 \text{ Vp-p } (75 \Omega) \text{ (without sync)}$ 

P<sub>B</sub>/C<sub>B</sub>/B:

0.7 Vp-p (75  $\Omega$ ) (without sync)

PR/CR/R:

0.7 Vp-p (75  $\Omega$ ) (without sync)

HD/VD:

1.0 - 5.0 Vp-p (high impedance)

#### **AUDIO1 IN**

Stereo mini jack (M3) 0.5 Vrms

Shared with DVI-D IN and PC IN

#### **AUDIO2 IN**

Stereo mini jack (M3) 0.5 Vrms

Shared with COMPONENT/RGB IN and VIDEO IN

#### **AUDIO OUT**

Stereo mini jack (M3) 0.5 Vrms

Output: Variable (-∞ to 0 dB)

(1 kHz 0 dB input, 10 k $\Omega$  load)

#### **SERIAL IN**

**External Control Terminal** 

D-sub 9 Pin:

RS-232C compatible

#### **SERIAL OUT**

**External Control Terminal** 

D-sub 9 Pin:

RS-232C compatible

#### LAN (LF8 series)

For RJ45 network connections, compatible with P.II ink

Communication method:

RJ45 10BASE-T/100BASE-TX

#### **DIGITAL LINK/LAN (LF80 series)**

For RJ45 network connections, compatible with PJLink

Communication method:

RJ45 100BASE-TX

#### IR IN

Stereo mini jack (M3)

#### IR OUT

Stereo mini jack (M3)

#### USB

TYPE A USB connector

5V DC / 1A (USB 3.0 is not supported.)

#### Sound

#### Speakers

96 mm × 27 mm × 2 pcs

#### **Audio Output**

20 W [10 W + 10 W] (10 % THD)

#### **Remote Control Transmitter**

#### Power source

DC 3 V (battery (AAA/R03/UM4 type) × 2)

#### Operating range

Approx. 7 m (22.9 ft)

(when operated directly in front of remote control sensor)

#### Mass

Approx. 63 g / 2.22 oz (including batteries)

#### Dimensions (W × H × D)

44 mm × 105 mm × 20.5 mm / 1 74" × 4 14" × 0 81"

- \*1: Environmental temperature to use this unit at high altitudes (1 400 m (4 593 ft) and higher and below 2 800 m (9 186 ft) above sea level): 0 °C to 35 °C (32 °F to 95 °F)
- \*2: VIERA LINK is not supported.

#### Note

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

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#### Contact Information:

oss-cd-request@gg.jp.panasonic.com

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#### (for the U.S.A and Puerto Rico)

Panasonic Solutions Company Unit of Panasonic Corporation of North America Two Riverfront Plaza, Newark, New Jersey 07102-5490

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Panasonic Solutions Company. (referred to as "the Warrantor") will repair this product and all included accessories with new or refurbished parts, free of charge in the USA or Puerto Rico, of the original purchase in the event of a defect in materials or workmanship as follows:

Models or Parts	Part Warranty	Labor Warranty
Professional Flat Panel Display	2 Years	2 Years

On-site or carry-in service in the **USA and Puerto Rico** may be obtained during the warranty period by contacting Panasonic Solutions Company Service toll free at 1-877-655-2357.

This warranty is extended only to the original purchaser and is non transferable. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use. The warranty does not cover damage which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from improper installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

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If you have a problem with this product that is not handled to your satisfaction, then write the Consumer Affairs Department at the Company address indicated above.

In the USA and Puerto Rico FOR SERVICE CALL TOLL FREE 1-877-655-2357

# Panasonic Canada Inc

The state of a taxable taxable

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

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Item	Pièces	Main d'oeuvre
Cassettes vidéo	30 jours - remplacement seulement (contenu non inclus)	S.O.
Cartes P2/SD	(Contenu non inclus)	S.O.
Têtes vidéo	1 an ou 2 000 heures (au prorata) 1 an ou 2 000 heures Selon la première échéance Selon la première éch	1 an ou 2 000 heures Selon la première échéance
Têtes vidéo D5	1 an ou 1 000 heures Selon la première échéance	1 an ou 1 000 heures Selon la première échéance
Articles de maintenance	90 jours	90 jours
Capteur d'images DCC pour 2 ans caméras couleur	2 ans	2 ans
Tous les moniteurs ACL	2 ans (rémanence non couverte) 2 ans	2 ans

	3 ans ou 17 000 heures Selon la première échéance 3 ans ou 2 500 heures Selon la première échéance 3 ans ou 1 500 heures	3 ans ou 17 Selon la pre 3 ans ou 2 t Selon la pre 3 ans ou 1 t
* Projecteurs ACL avec luminosité inférieure à 2 500 lumens ANSI	3 ans ou 1 500 heures Selon la première échéance	3 ans ou 1 t Selon la pre
Ampoules pour projecteurs	50% de la durée de vie nominale ou 1 an Selon la première échéance	50% de la dui ou 1 an Selor
Tous les écrans à plasma	2 ans (rémanence non couverte) 2 ans	2 a
Écrans à plasma 103 po	3 ans (rémanence non couverte) 3 ans	ယ
Unités de disque dur	1 an plus période (s'il y a lieu) de couverture restante de la garantie limitée du fabricant.	1 an

3 ans ou 17 000 heures n la premiere echeance ree de vie nominale emiere echeance 500 heures emiere échéance emière échéance 500 heures

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(Content non convert)

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## **Customer Service**

# **Customer Service Directory**

Obtain products information and operative assistant; localize the closer distributor or Service Center; buy spare parts and accessories by our web site to Latin American:

# http://www.lar.panasonic.com

Also you may contact us directly by our Contact Center:

Panama 800-PANA (800-7262)

Colombia 01-8000-94PANA (01-8000-947262) Ecuador 1800-PANASONIC (1800-726276)

Costa Rica 800-PANA737 (800-7262737)

El Salvador 800-PANA (800-7262)

Guatemala 1-801-811-PANA (1-801-811-7262)

Chile 800-390-602

From a cell phone: 797-5000

Venezuela 800-PANA-800 (800-7262-800)

Uruguay 0-800-PANA (0-800-7262)

Peru 0-800-00-PANA (0-800-00726) Argentina 0800-333-PANA (0800-333-7262)

0810-321-PANA (0810-321-7262)

Paraguay 800-11-PANA (800-11-7262)

Dominican Republic 809-200-8000

# Mexico Service

To obtain information in the Republic of Mexico contact us at:

# email: atencion.clientes@mx.panasonic.com http://www.panasonic.com.mx

Or you may contact us in the next following phones numbers:

01800-VIP-PANA (01800-847-7262) - Interior

(55) 5000-1200 - Mexico D.F. and Metropolitan Area

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



These symbols are only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Fυ



#### Notice (U.S.A. only)

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

**Model Number** 

Serial Number

#### **Panasonic System Communications Company of North America**

Unit of Panasonic Corporation of North America

#### **Executive Office:**

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