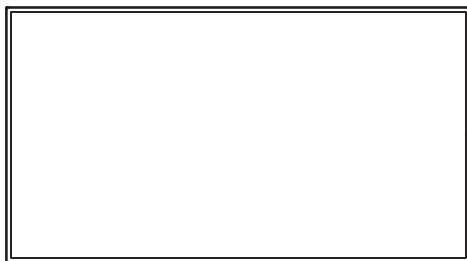


Operating Instructions

FULL HD LCD Display For business use

Model No.	TH-43LFE8U	43-inch model
	TH-48LFE8U	48-inch model
	TH-55LFE8U	55-inch model
	TH-65LFE8U	65-inch model
	TH-43LFE8E	43-inch model
	TH-48LFE8E	48-inch model
	TH-55LFE8E	55-inch model
	TH-65LFE8E	65-inch model



HDMI

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.com>

Table of Contents

Before use

- 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 48-inch model.

Important Safety Instructions..... 4

FCC STATEMENT..... 5

Important Safety Notice 6

Safety Precautions 7

WARNING..... 7

CAUTION..... 8

Precautions for use 9

Cautions when installing..... 9

Cleaning and maintenance..... 10

Wired LAN..... 10

Disposal..... 10

Accessories 11

Accessories Supply..... 11

Remote Control Batteries..... 12

Kensington security..... 12

Connections..... 13

AC cord connection and fixing..... 13

Cable fixing..... 14

Video equipment connection..... 15

HDMI 1 and 2 terminals connection..... 16

DVI-D IN terminal connection..... 17

PC IN terminal connection..... 18

VIDEO terminal connection..... 19

SERIAL terminal connection..... 19

IR IN/OUT terminal connection..... 21

AUDIO OUT terminal connection..... 21

USB terminal connection..... 22

Identifying Controls..... 23

Main Unit..... 23

Remote Control Transmitter..... 24

Basic Controls..... 25

Selecting the input signal..... 27

RECALL..... 27

Volume Adjustment..... 28

Sound mute On / Off..... 28

OFF TIMER..... 28

ASPECT Controls..... 29

Digital ZOOM..... 30

USB Media Player..... 31

Function description..... 31

Preparation..... 31

Playing back the files..... 32

Network environment (Multi Media Player only)..... 34

Starting / ending Media Player..... 35

Resume Play function..... 35

On-Screen Menu Displays..... 36

Adjusting Position..... 38

Auto setup..... 38

Sound Adjustment..... 40

Picture Adjustments..... 41

Picture Profiles 43

Saving profiles..... 44

Loading profiles..... 45

Editing profiles..... 45

Setup menu..... 47

Signal..... 47

Screensaver..... 47

(For preventing image retention)..... 50

Input label..... 51

Power management settings..... 51

Wobbling..... 52

No activity power off..... 52

OSD language..... 52

Multi Display Settings..... 53

Set up timer..... 54

Date and time..... 54

Network settings..... 55

USB media player settings..... 56

Function button settings..... 57

Display orientation..... 58

OSD position..... 58

Menu display duration..... 58

Menu transparency..... 58

Options Adjustments 59

Using Network Function 64

Necessary environment for computers to be connected..... 64

Example of network connection..... 64

Command control..... 65

PJLink protocol..... 65

Early Warning Software..... 66

Multi Monitoring & Control Software..... 66

Connecting with LAN..... 66

Computer operation..... 66

Using Web Browser Control..... 67

Before Using Web Browser Control..... 67

Access from Web Browser..... 67

Operating with Web Browser..... 68

Using Web Browser Control..... 71

ID Remote Control Function..... 73

Setting the remote control's ID number..... 73

Cancelling the setting of remote control's ID number..... 73

Entering characters..... 74

Preset Signals..... 75

Shipping condition..... 77

Data Cloning..... 78

Copying the display data to the USB memory..... 78

Copying the USB memory data to the display..... 79

Troubleshooting..... 80

Specifications..... 82

Software License..... 84

Important Safety Instructions

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:

- 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.

- 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 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-43LFE8U, TH-48LFE8U

TH-55LFE8U, TH-65LFE8U

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

Important Safety Notice

WARNING

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

CAUTION

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

To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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 5 amp fuse is fitted in this plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 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.

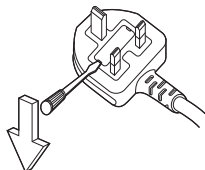
If the socket outlet in your home is not suitable, get it changed by a qualified electrician.

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.



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 (for 43/48/55-inch models)
TY-ST65PE8 (for 65-inch model)

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.

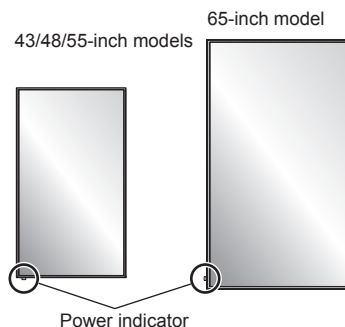
Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.

For sufficient ventilation, see page 9.

Caution - For use only with UL Listed Wall Mount Bracket with minimum weight/load 36.2kg.

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.
- 43/48-inch models: VESA 200×200
55/65-inch models: VESA 400×400 (see page 9)
- 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 or 220 - 240 V AC, 50/60 Hz.

Do not cover the ventilation holes.

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

Do not stick any foreign objects into the Display.

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

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

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

Ensure that the mains plug is easily accessible.

65-inch model

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 provided with this unit.

- 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.

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 your 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.



⚠ 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 12)

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.

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.

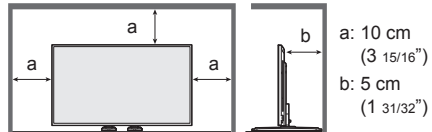
- Failure to do so may shorten the life of the internal parts and result in malfunctions.

About space when installing

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, 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)
43	200 mm × 200 mm	16 mm	M6 (4)
48	200 mm × 200 mm	16 mm	M6 (4)
55	400 mm × 400 mm	16 mm	M6 (4)
65	400 mm × 400 mm	20 mm	M8 (4)

For 43/48/55-inch models

Screw holes other than the above have also been provided on this unit, however, the screw holes in the above table are recommended.

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 23)

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 static occurs often, take a sufficient anti-static 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 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.
- 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. Connect the LAN.

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 LAN terminal by using a piece of metal foil or a metal pipe, of which is grounded at both ends.

Disposal

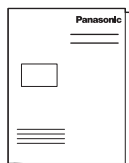
When disposing the product, ask your local authority or dealer about the correct methods of disposal.

Accessories

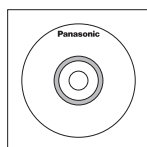
Accessories Supply

Check that you have the accessories and items shown

Operating Instructions (Book)



Operating Instructions (CD-ROM)

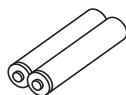


Remote Control Transmitter×1

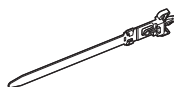
- N2QAYA000099



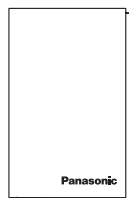
Batteries for the Remote Control Transmitter (AAA/R03/UM4 type × 2)



Clamper × 3

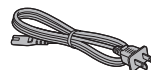


For TH-43LFE8U, TH-48LFE8U, TH-55LFE8U and TH-65LFE8U Warranty card × 1

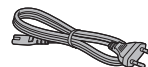
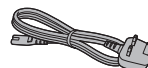


Power supply cord

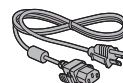
TH-43LFE8U, TH-48LFE8U,
TH-55LFE8U



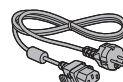
TH-43LFE8E, TH-48LFE8E,
TH-55LFE8E



TH-65LFE8U



TH-65LFE8E

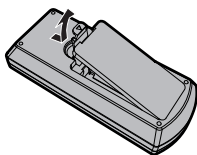


Attention

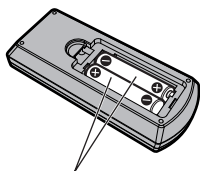
- Store small parts in an appropriate manner, and keep them away from young children.
- In case you lost accessories, please consult your dealer.
- Dispose the packaging materials appropriately after taking out the items.

Remote Control Batteries

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



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



AAA/R03/UM4 type

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.

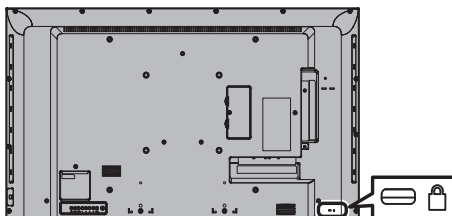
Observe the following precaution:

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

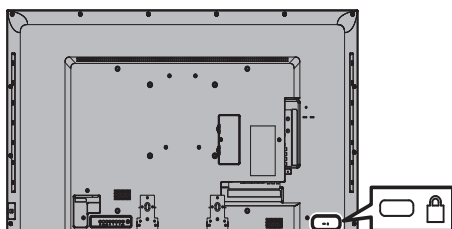
Kensington security

This security slot is compatible with the Kensington security cables.

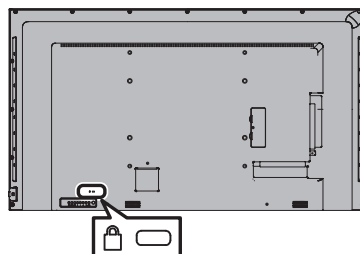
43-inch model



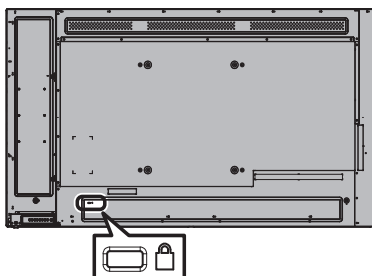
48-inch model



55-inch model



65-inch model

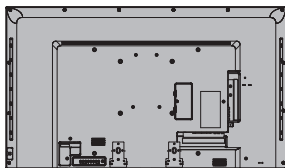


Connections

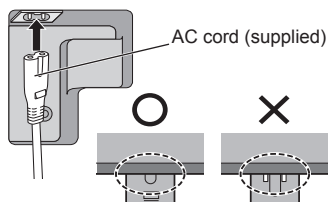
AC cord connection and fixing

43/48/55-inch models


Back of the unit



Insert the AC cord securely all the way seated on the back side of the unit.



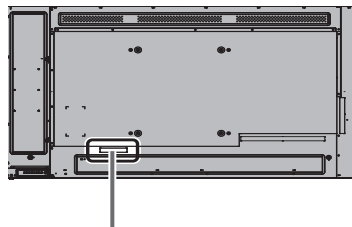
Insert the plug until the line is hidden.

 Class II equipment.

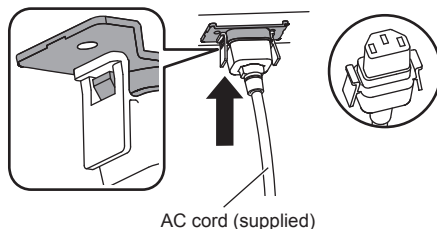
65-inch model

- The AC cord for the 65-inch model has a 3-pin plug with earth.

Back of the unit



AC cord fixing



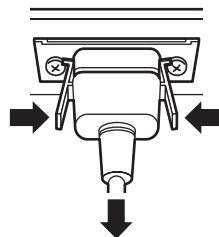
Plug the connector into the display unit.

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



Unplug the connector pressing the two knobs.

Note

- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.
- The supplied AC cord set is for this unit exclusive use. Do not use this for other purposes.

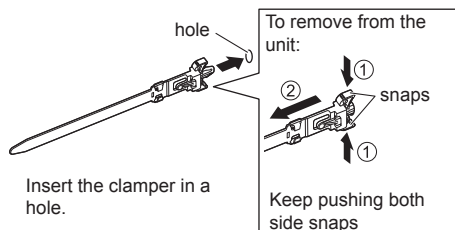
Cable fixing

Note

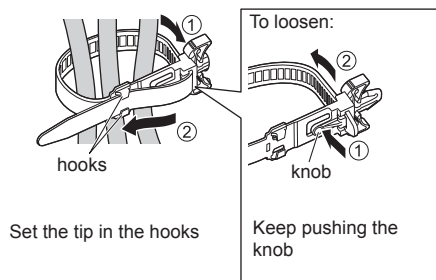
- 3 clampers are supplied with this unit. Fix the cables at 3 locations using the holes of clampers as shown below.

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

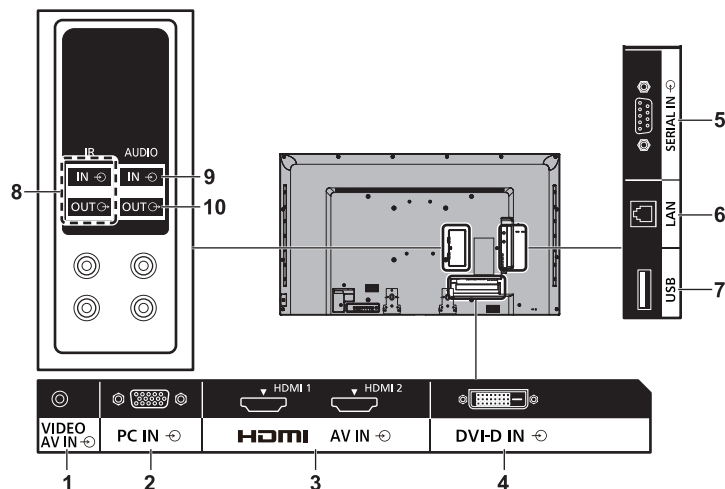
1. Attach the clumper



2. Bundle the cables



Video equipment connection



1 AV IN (VIDEO): Composite Video Input Terminal
Connect to video equipment such as VCR or DVD player, etc.
(see page 19)

2 PC IN: **PC Input Terminal**
Connect to video terminal of PC, video equipment with "Y, Pb(Cb), Pr(Cr)" or "R, G, B" output.
(see page 18)

3 AV IN (HDMI 1, HDMI 2): **HDMI Input Terminal**
Connect to video equipment such as VCR or DVD player, etc.
(see page 16)

4 DVI-D IN: **DVI-D Input Terminal**
Connect to video equipment with DVI-D output.
(see page 17)

5 SERIAL IN: **Serial Control Terminal**
Control the Display by connecting to PC.
(see page 19)

6 LAN: **LAN Terminal**
Control the Display by connecting to Network.
(see page 64)

7 USB: **USB Memory Terminal**
Connect the USB memory to use the USB media player function. Also, this can be used to supply power of up to 5V/1A to an external device when receiving images.
(see page 22,31)

8 IR IN, IR OUT: **Infrared Signal Input/output Terminal**
Use this when operating more than one display with one remote control.
(see page 21)

9 AUDIO IN: **Audio input terminal shared with DVI-D IN and PC IN**
(see page 17,18)

10 AUDIO OUT: **Analogue Audio Output Terminal**
Connect to audio equipment with analogue audio input terminal.
(see page 21)

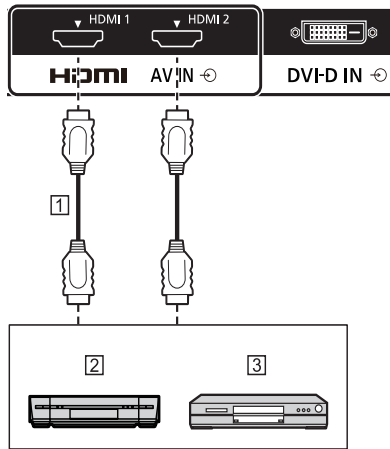
Note

- Depending on the outer shape of the plug of a connection cable, it may come in contact with the plug of an adjacent connection cable or the periphery such as a back cover. Use a connection cable with the suitable plug size for the terminal alignment.
- Due to the terminal block construction, some connection cables and USB memory devices cannot be used. Be sure to check the "CONNECTION TERMINAL" information in the product specification sheet. For the information about product specifications, visit the following web site. <http://panasonic.net/prodisplays/download/specsheets02.html>

HDMI 1 and 2 terminals connection

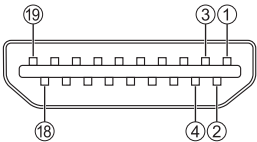
Note

- Additional equipment and HDMI cable shown are not supplied with this set.
- Some HDMI equipment may not be able to display picture.



- ① HDMI cable (not supplied)
- ② Video Cassette Recorder
- ③ DVD Player

Pin assignments and signal names for HDMI Terminal



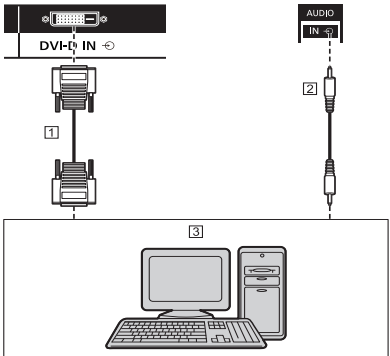
Pin No.	Signal name
①	T.M.D.S Data2+
②	T.M.D.S Data2 Shield
③	T.M.D.S Data2-
④	T.M.D.S Data1+
⑤	T.M.D.S Data1 Shield
⑥	T.M.D.S Data1-
⑦	T.M.D.S Data0+
⑧	T.M.D.S Data0 Shield
⑨	T.M.D.S Data0-
⑩	T.M.D.S Clock+
⑪	T.M.D.S Clock Shield
⑫	T.M.D.S Clock-
⑬	CEC
⑭	
⑮	SCL
⑯	SDA
⑰	DDC/CEC Ground
⑱	+5V DC
⑲	Hot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

DVI-D IN terminal connection

Note

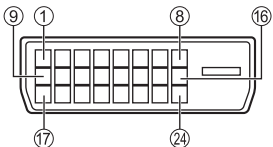
- Additional equipment and cables shown are not supplied with this set.
- Use the DVI-D cable complying with the DVI standard. Image deterioration may occur depending on the length or the quality of the cable.

Shared with PC IN.



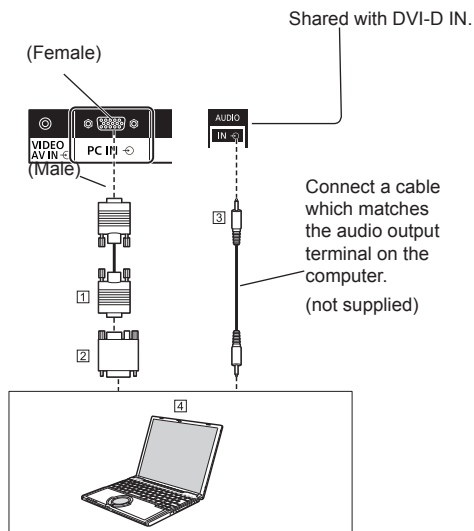
- 1 DVI-D video cable (Within 5 m) (not supplied)
- 2 Stereo mini plug (M3) cable (not supplied)
- 3 PC with DVI-D video out

Pin assignments and signal names for DVI-D Input Connector



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

PC IN terminal connection



- 1 Mini D-sub 15p (not supplied)
- 2 Conversion adapter (if necessary) (not supplied)
- 3 Stereo mini plug (M3) cable (not supplied)
- 4 COMPUTER

The type of computer signal that can be connected

- With regard to the typical PC input signals that are described in "Preset Signals" (see page 75), adjustment values such as for the standard picture positions and sizes have already been stored in this unit. You can add up to eight PC input signal types that are not included in the list.
- 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.
- 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.
- In [ENGLISH(US)] OSD language, [16:9] is displayed as [FULL].

Note

- The PC IN terminal is 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 computer, cables and conversion adapter

shown are not supplied with this set.

- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the [Component/RGB-in select] setting in the [Signal] menu to [Component] (when Component signal connection) or [RGB] (when RGB signal connection). (see page 48)

Pin assignments and signal names for PC Input Terminal (Mini D-sub 15P)

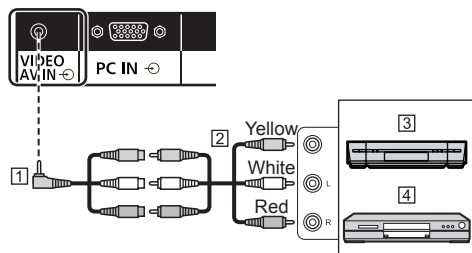


Pin No.	Signal Name
①	R (Pr/Cr)
②	G (Y)
③	B (Pb/Cb)
④	NC (not connected)
⑤	GND (Ground)
⑥	GND (Ground)
⑦	GND (Ground)
⑧	GND (Ground)
⑨	+5 V DC
⑩	GND (Ground)
⑪	NC (not connected)
⑫	SDA
⑬	HD/SYNC
⑭	VD
⑮	SCL

VIDEO terminal connection

Note

- Video equipment, connection cables and conversion plugs are not supplied with this unit.

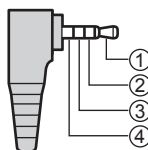


- ① 4-pole mini plug conversion cable (commercially available)
- ② Audio video pin cable
- ③ Video Cassette Recorder
- ④ DVD Player

Wiring specifications for 4-pole mini plug

Note

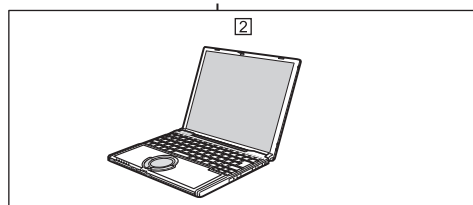
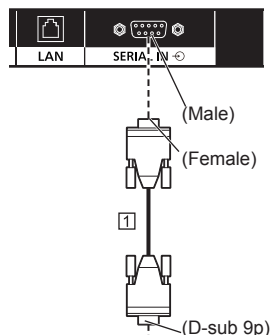
- Use a 4-pole mini plug (M3) with the following wiring specifications for the VIDEO terminal of this unit. If the wiring of a plug is different, audio and video are not correctly input.



①	Audio L (White)
②	Video (Yellow)
③	GND (Ground)
④	Audio R (Red)

SERIAL terminal connection

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.



- ① RS-232C Straight cable (not supplied)
- ② COMPUTER, etc.

Note

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

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.

Pin assignments and signal names for SERIAL Terminal



Pin No.	Signal Name
①	NC (not connected)
②	RXD
③	TXD
④	Non use
⑤	GND (Ground)
⑥	Non use
⑦	RTS
⑧	CTS
⑨	NC (not connected)

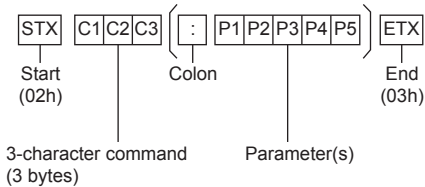
These signal names are those of computer specifications.

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: None

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.



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	HDMI 1 input (HDMI1)
	HM2	HDMI 2 input (HDMI2)
	DV1	DVI-D IN input (DVI-D)
	PC1	PC IN input (PC)
	VD1	VIDEO input (VIDEO)
	UD1	USB input (USB)

Note

- 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.
- In Standby condition (power OFF with remote control), the unit responds to PON command only.
- Consult your local Panasonic dealer for detail instructions on command usage.

IR IN/OUT terminal connection

Connect the mini plug (M3) cable from the IR OUT terminal of the first display to the IR IN terminal of the second display.

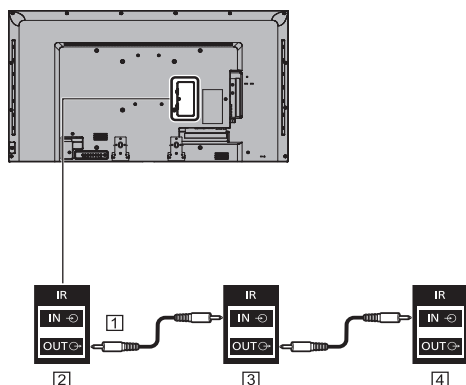
The infrared signal of the first display is sent to the second display.

In this case, the IR (infrared ray reception on the remote control sensor) on the second display does not operate.

Repeating the above connections enables the daisy chain connection.

Note

- Connection cables are not supplied with this unit.



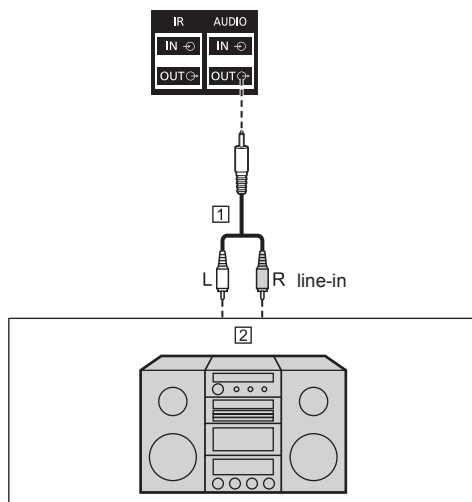
① Mini plug (M3) cable (commercially available)

② First display

③ Second display

④ Third display

AUDIO OUT terminal connection



① Stereophonic sound code (not supplied)

② Audio equipment

Note

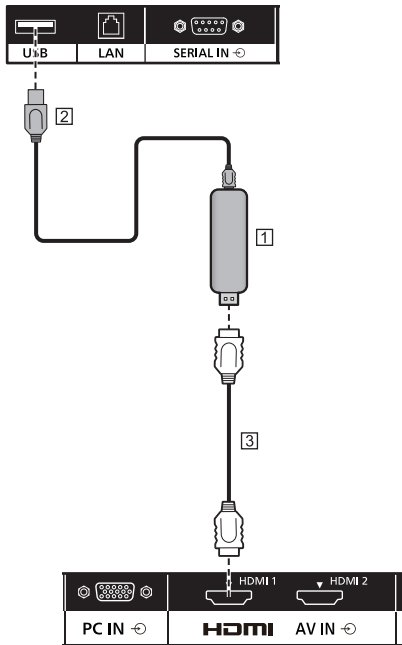
- Audio equipment and the cable shown are not supplied with this set.
- To output sound from AUDIO OUT Terminal of the unit, be sure to set [Output select] in the [Sound] menu to [AUDIO OUT]. (see page 40)

USB terminal connection

Connect the USB memory to use the USB media player function. (see page 31)
Also, power is supplied when a separately sold stick PC, etc. are connected.

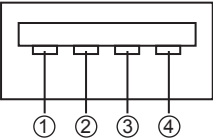
Note

- A stick PC and connection cables are not supplied with this unit.



- 1 Stick PC
- 2 USB cable (commercially available)
- 3 HDMI extension cable (commercially available)

Pin assignments and signal names for USB Terminal



Pin No.	Signal name
1	+5 V DC
2	DATA -
3	DATA +
4	GND (Ground)

Power of up to 5V/1A can be supplied to an external device when receiving images.

- If the electric current exceeding the power supplying capability is applied, the output is blocked, and the following message is displayed. [USB DC5V OUT overload. Please remove cable or equipment, then turn the display off / on.]

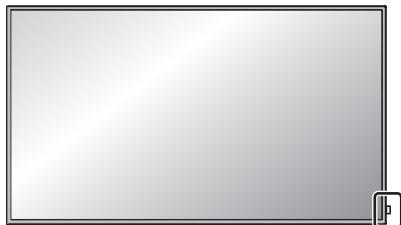
In this case, remove the equipment and then turn the power off/on using the remote control, etc.

Note

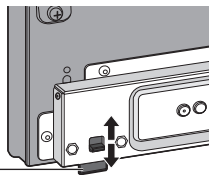
- If the direct connection to this unit is not possible due to the size of a stick PC, etc. use a commercially sold extension cable.
- Depending on the type of a USB memory device, it may come in contact with the periphery such as a back cover, and cannot be attached. Use a commercially sold extension cable, or use a small type of a USB memory device connectable to this unit.

Identifying Controls

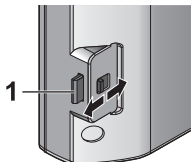
Main Unit



65-inch model



43/48/55-inch models



- 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.

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 switch: ON)

- Picture is displayed: Green
- Power OFF (Standby) with remote control: Red
When [Network control] is set to [On] (see page 55) : Orange (Red/Green)
- Power OFF with "Power management" function: Orange (Red/Green)

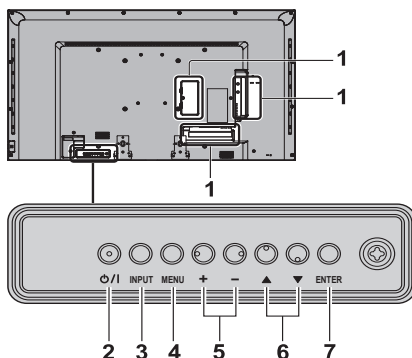
"Power management" function (see page 51)

When the power of the unit is OFF (Main Power On Off switch: 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

- Connect to video equipment, PC, etc. (see page 15)

2 <Main Power On / Off switch>

- Turns the power On / Off.

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

- Selects the connected device. (see page 27)

4 <MENU (Unit)>

- Each time the <MENU (Unit)> button is pressed, the menu screen will switch. (see page 36)

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

- Volume Up "+" Down "-"
- Adjusts the volume. Also, switches the settings or adjusts the level on the main screen. (see page 28, 36)

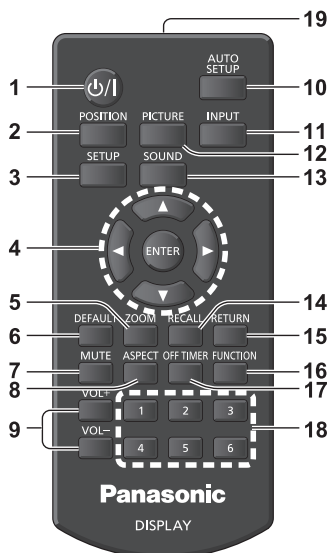
6 <▲ (Unit)> / <▼ (Unit)>

- Selects the setting item. (see page 36)

7 <ENTER (Unit)>

- Configures the item on menu screen. (see page 36)
- Switches aspect mode. (see page 29)

Remote Control Transmitter



1 Standby (ON/OFF) button (⏻ / |)

- Turns the power on or off when the Display is turned on at the power switch. (see page 25)

2 POSITION

(see page 38)

3 SETUP

(see page 47)

4 ENTER / Cursor buttons (▼▲◀▶)

- Used to operate the menu screens. (see page 36)

5 ZOOM

- Enters the digital zoom mode. (see page 30)

6 DEFAULT

- Resets the settings of picture, sound, etc., to defaults. (see page 38, 40, 41)

7 MUTE

- Sound mute on / off. (see page 28)

8 ASPECT

- Adjusts the aspect. (see page 29)

9 VOL + / VOL -

- Adjusts sound volume level. (see page 28)

10 AUTO SETUP

- Automatically adjusts the position/size of the screen. (see page 38)

11 INPUT

- Switches input to display on the screen. (see page 27)

12 PICTURE

(see page 41)

13 SOUND

(see page 40)

14 RECALL

- Displays the current setting status of Input mode, Aspect mode, etc. (see page 27)

15 RETURN

- Used to return to the previous menu. (see page 36)

16 FUNCTION

(see page 57)

17 OFF TIMER

- Switches to stand-by after a fixed period. (see page 28)

18 Numeric buttons (1 - 6)

- Used as shortcut buttons by assigning frequently used operations. (see page 57)

19 Signal emission

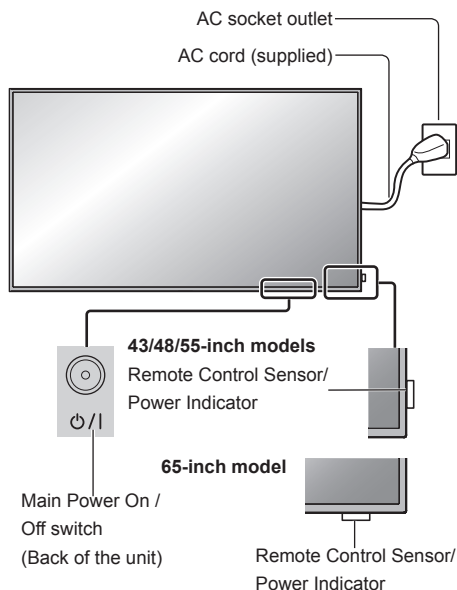
Note

- 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 23)
- 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 13)

2 Connect the plug to the socket outlet.

Note

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

3 Press the <Main Power On / Off switch> 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 switch> 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.

"Power management" function (see page 51)

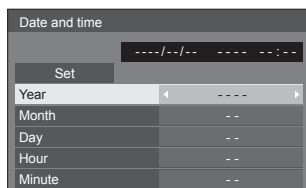
■ When the Unit is turned on for the first time

Following screen will be displayed.

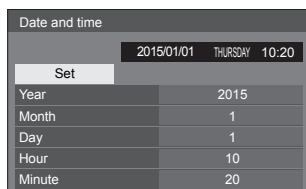
1 Select the language with ▲ ▼ and press <ENTER>.



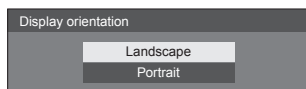
2 Select [Year] / [Month] / [Day] / [Hour] / [Minute] with ▲ ▼ and set with ◀ ▶.



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] (see page 52)
[Date and time] (see page 54)
[Display orientation] (see page 58)

■ 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. (see page 52)

"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. (see page 51)

These message displays can be set with the following menu:

- [Options] menu
Power on message(No activity power off) (see page 63)
Power on message(Power management) (see page 63)

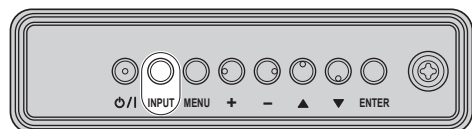
Selecting the input signal

Select the signals input to the unit.

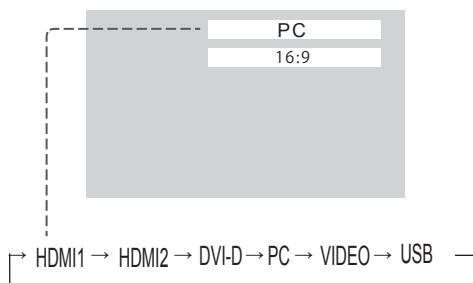
Press **<INPUT>** or **<INPUT (Unit)>**.



Unit



Switches input every time the buttons are pressed.



HDMI1: HDMI 1 terminal, HDMI input

HDMI2: HDMI 2 terminal, HDMI input

DVI-D: DVI-D IN terminal, DVI-D input

PC: PC IN terminal, PC input

VIDEO: VIDEO terminal, composite video input

USB: USB terminal, USB input

Note

- Displays the signal name as set in [Input label]. (see page 51)
- Input will not be switched unless [Input lock] is set to [Off]. (see page 60)
- Image retention (image lag) may occur on the LCD display panel when a still picture is kept on the panel for an extended period. To prevent such a problem, using the screensaver and wobbling is recommended. (see page 50, 52)

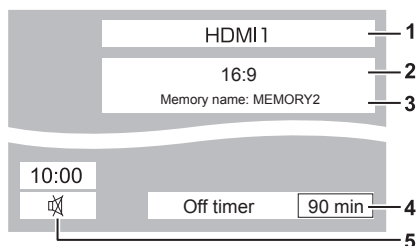
RECALL

It is possible to check the setting status of input label, picture mode, etc.

Press **<RECALL>**.



Current setting status will be displayed.



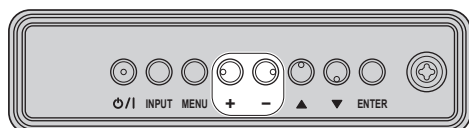
- 1 Input label
 - 2 Aspect mode (see page 29)
 - 3 Profile name (see page 45)
 - 4 Off timer remaining time (see page 28)
 - 5 Clock / Mute (see page 28)
- When there is no signal to the selected input, [No signal] is displayed for about 30 seconds at the end.
 - To display the clock, set [Date and time], and then set [Clock display] to [On]. (see page 54, 63)

Volume Adjustment

Press <VOL +> <VOL -> or <+ (Unit)> <-(Unit)> to adjust volume.



Unit




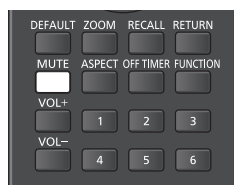
- The current sound volume level is memorised even if the power is turned off.
- When [Maximum VOL level] is set to [On], the volume can only be adjusted to the maximum point you set, and the displayed value turns red when it reached its maximum. (see page 60)



Sound mute On / Off

It is useful when you want to mute the sound temporarily, for example, when answering the phone or door.

Press <MUTE>.

-  appears on the screen and the sound is muted. Press again to reactivate the sound.



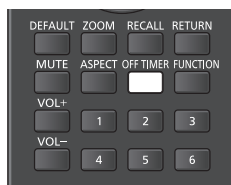
- It is also reactivated when the power is turned on / off or the volume level is changed.
- While MUTE is active,  is displayed as a reminder after operation.
- In [ENGLISH(US)] OSD language,  is displayed as [MUTE].

OFF TIMER

The Display can be preset to switch to stand-by after a fixed period. (30 min, 60 min, 90 min)

The setting switches each time <OFF TIMER> is pressed.

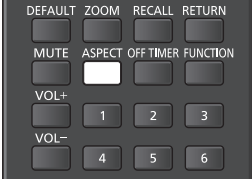
- [0 min] → [30 min] → [60 min] → [90 min]
→ [0 min] (Cancel)



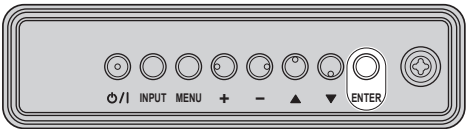
- When three minutes remain, the remaining time will flash (Red). After that, it switches to stand-by.
- To see the Off timer remaining time, press <RECALL>.
- The Off timer is cancelled if a power interruption occurs.

ASPECT Controls

Press <ASPECT> or <ENTER (Unit)> repeatedly to move through the aspect options:



Unit

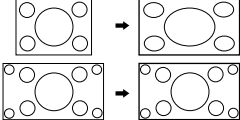
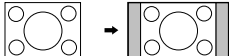
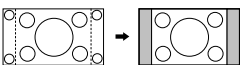


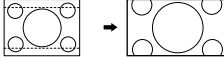
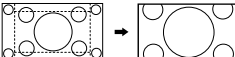
[4:3] → [Zoom1] → [Zoom2] → [16:9]

Note

- The aspect mode is memorised separately for each input terminal.
- When input from USB, the aspect mode is fixed to [16:9].

List of Aspect Modes

Aspect mode	Description
16:9	<p>Picture → Enlarged screen</p>  <p>Pictures are displayed filling the screen.</p>
4:3	 <p>Pictures are displayed in the 4:3 area. Pictures with a 4:3 aspect ratio are displayed as is. PC signals are enlarged or reduced to be displayed in the 4:3 area. Side panels are displayed both at the right and left edges of the screen.</p>  <p>Pictures with a 4:3 aspect ratio in 16:9 signals are displayed with their original aspect ratio. The left and right edges of the pictures are masked by side panels.</p>

Aspect mode	Description
Zoom1	 <p>Letterbox pictures with a 16:9 aspect ratio are enlarged vertically to fill the screen. The top and bottom edges of the pictures are cut off.</p>
Zoom2	 <p>Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally to fill the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.</p>

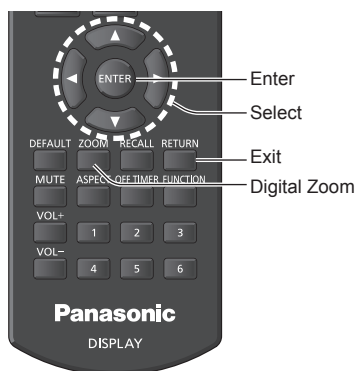
Note

- Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent image retention to remain on the Display Panel.
- 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.
- In [ENGLISH(US)] OSD language, [16:9] is displayed as [FULL].

Digital ZOOM

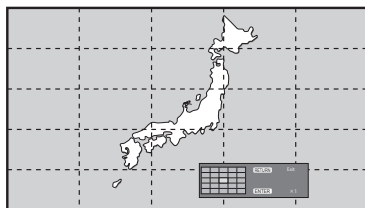
Select the screen areas (25 areas) to zoom in, and zoom in the selected image areas 2x, 3x or 4x.

(Use the remote control. The main unit's buttons cannot be used for operation.)



1. Set the digital zoom mode.

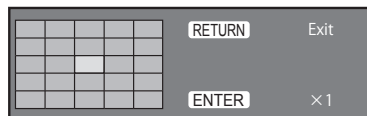
Press **<ZOOM>**.



The screen aspect is set to [16:9], and the digital zoom operation guide is displayed.

2. Select the image areas to zoom in.

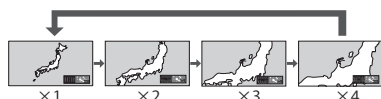
Select pressing **▼▲◀▶**.



Digital Zoom operation guide

3. Switch the zoom ratio for the screen areas.

Switches every time **<ENTER>** is pressed.



- If no operation is performed for approx. 60 seconds when the zoom ratio for the screen is "x1", the unit exits the zoom mode.
- If no operation is performed for approx. 3 seconds when the zoom ratio for the screen is "x2", "x3" or "x4", the digital zoom operation guide display disappears. Pressing any of the **▼▲◀▶** buttons displays the guide again.

4. Exit the digital zoom mode.

Press **<RETURN>** to exit the mode.

The screen returns to the previous state just before entering the digital zoom mode, and the digital zoom operation guide display disappears.

- Press any of the following buttons to exit the mode. Then, the operation of the pressed button is performed.

Remote Control : <AUTO SETUP>
 <POSITION> <PICTURE>
 <INPUT> <SETUP>
 <SOUND> <DEFAULT>
 <RECALL> <MUTE>
 <ASPECT> <OFF TIMER>
 <FUNCTION> <VOL+>
 <VOL-> <1>~<6>

Unit <INPUT> <MENU> <+>
 <-> **▼▲** <ENTER>

- When the screen saver timer starts up, the digital zoom mode finishes.
- When the power is turned OFF, a force-quit is performed.
 - When the power is turned OFF by pressing the standby (ON/OFF) button of the remote control.
 - When the power switch of the main unit is turned OFF
 - When the power is turned OFF by the off-timer
 - When the power is turned OFF by the non-signal auto off or power management

Note

- In the following cases, the digital zoom mode is not available.
 - When [Multi display setting] is [ON]
 - When the screen saver is in operation
 - When USB input is selected
- The zoomed image is rougher than the original image.
- For multi display use, use the functions in [Multi display settings].

USB Media Player

Function description

The USB media player displays still pictures and motion pictures saved in a USB memory by inserting the USB memory device into the display unit.

Note

- To use this function, set [USB media player] to [Enable] in [Setup] - [USB media player settings]. (see page 56)

Single Media Player

Files are played by a single unit.

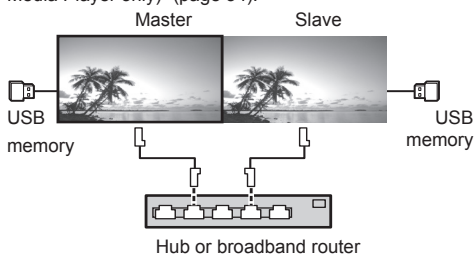


Multi Media Player

Connecting more than one unit using LAN cables plays back files in the USB memory simultaneously.

One of the multiple units becomes the master, and the others are slaves. The two-unit configuration example is shown below.

For LAN connection, see "Network environment (Multi Media Player only)" (page 34).



Note

- For Multi Media Player, one USB memory device is required for one unit.

Preparation

Supported device

- Commercially available USB memory devices are supported. (Those with security functions are not supported.)
- USB memory devices other than those formatted in FAT16 or FAT32 cannot be used.
- Up to 32 GB of USB memory in size are supported.
- Only single partition configuration is supported.

Preparation

Prepare the following files in the USB memory for the media player.

- Play file
- Scenario (as necessary)
- File list (as necessary)

Play file

The unit's Media Player supports the formats below.

File name (Extension)

Still image	JPG, JPEG, JPE
Moving image	AVI, MKV, ASF, WMV, TS, MTS, MP4, 3GP, MOV, FLV, F4V

Codec

Moving image	
Codec	Maximum resolution
MPEG4VISUAL	480@30fps
MPEG4AVC	1080@30fps, High Profile
VC-1 Advanced	1080@30fps
VC-1 Simple & Main	1080@30fps

Audio

Codec	Sampling frequency (kHz)	Bit rate (kbps)
MP3	8/11.025/12/16/22.05/24/32/44.1/48	8-320
AAC	8/11.025/12/16/22.05/24/32/44.1/48	1-1728
WMA Standard WMA 9 WMA 10 Pro	8/11.025/12/16/22.05/24/32/44.1/48	1-1728

Still image

Codec	Maximum resolution
JPEG	4096×4096

Note

- Maximum size per one file is 2 GB.
- Files protected by Digital Rights Management (DRM) cannot be played back.
- Some files may not be played back even if their formats are supported as described here.
- Use a file of which audio and video are both supported.
- If there is no video file, playback is not possible.

■ Scenario

The play order and time can be specified for a play file. Save under the name "scenario.dat" immediately below root in USB memory.

- Save files as UTF-8N format.

■ File list

It is a list of play files. Save under the name "filelist.dat" immediately below root in USB memory.

- Save files as UTF-8N format.

■ Scenario- / File list-associated terms

File name

It is the name of a play file.

A file name needs to include its extension.

Example) introduction.jpg
Contents_video01.wmv

- Enter the extension of a file name using one-byte alphanumeric characters.

File definition

It is a file definition that is shared among scenarios and files.

PHOTO_"xxx": still image file definition
VIDEO_"xxx": moving image file definition

- The "xxx" portion can be set from 001 to 999.
- Enter a file definition using one-byte alphanumeric characters.

Play time

It is the play time of a file.

Play time can be specified from 3 seconds to 24 hours. (Unit: second)

Example) 3: 3 seconds
86400: 24 hours
10.5: 10.5 seconds It can be set down to one-tenth (1/10) of a second using a decimal point (full stop).

Play time is omissible.

For still images, a file will be played for the period of time that you selected in [USB media player settings] - [Slide show duration]. (see page 56)

For moving images: a file will be played for the duration of the play time of the file.

- Enter play time using English one-byte characters.
- When playing back large sized files, if you set the playing back duration short, it may not be played back properly, for example, noise appears on the screen. In that case, set the playing back duration longer (10 seconds or longer).

Group ID (for Multi Media Player)

It is an ID used for grouping on a network during Multi Media Player conditions.

GroupID:Gxx : Group xx

The "xx" portion can be set from 01 to 10.

- Enter a group ID using one-byte alphanumeric characters.

NOTE

- "UTF-8N": UTF-8 encoding without BOM. Notepad for windows doesn't support this encoding. Please use another editor supported UTF-8 encoding without BOM.

Playing back the files

■ Example of setting in each mode

Single Media Player Type1

Files will be played in the order in which their names appear in USB memory.

Scenario and file list

Scenario:

Unnecessary

File list:

Unnecessary

Setting example

USB memory contents

```
└ 001_Introduction.jpg
└ 002_Contents_Video1.wmv
└ 003_Contents_Video2.wmv
└ 004_Contents_Video3.wmv
```

Play contents

For the above setting example, the following contents will be played on repeat (loop).

1. 001_Introduction.jpg (*1)
2. 002_Contents_Video1.wmv (*2)
3. 003_Contents_Video2.wmv (*2)
4. 004_Contents_Video3.wmv (*2)

*1 Played for the duration set in [Slide show duration].

*2 Played for the duration of the play time of the file.

Single Media Player Type2

Files will be played in the order they were listed in a scenario.

Scenario and file list

Scenario:

Enter [File name: Play time].

File list:

Unnecessary

Setting example

USB memory contents

```
└ scenario.dat
└ Introduction.jpg
└ Contents_Video1.wmv
└ Contents_Video2.wmv
└ Contents_Video3.wmv
```

scenario.dat

```
Introduction.jpg:10
Contents_Video1.wmv:10
Contents_Video2.wmv:20
Contents_Video3.wmv:
```

Play contents

For the above setting example, the following contents will be played on repeat (loop).

1. Introduction.jpg (10 seconds)
2. Contents_Video1.wmv (10 seconds)
3. Contents_Video2.wmv (20 seconds)
4. Contents_Video3.wmv (Played for the duration of the play time of the file)

Single Media Player Type3

Files will be played in the order they were listed in a scenario.

Scenario and file list

Scenario:

Enter [File definition: Play time].

File list:

Enter [File definition: File name].

Setting example

USB memory contents

```
└─ filelist.dat
├─ scenario.dat
├─ Introduction.jpg
├─ Contents_Video1.wmv
├─ Contents_Video2.wmv
└─ Contents_Video3.wmv
```

filelist.dat

```
PHOTO_001:Introduction.jpg
VIDEO_001:Contents_Video1.wmv
VIDEO_002:Contents_Video2.wmv
VIDEO_003:Contents_Video3.wmv
```

scenario.dat

```
PHOTO_001:10
VIDEO_001:10
VIDEO_002:20
VIDEO_003:
```

Play contents

For the above setting example, the following contents will be played on repeat (loop).

1. Introduction.jpg (10 seconds)
2. Contents_Video1.wmv (10 seconds)
3. Contents_Video2.wmv (20 seconds)
4. Contents_Video3.wmv (Played for the duration of the play time of the file)

Multi Media Player

Files will be played in the order they were listed in the scenario for Master.

Scenario and file list

[Master side]

Scenario:

Enter [File definition: Play time].

File list - The first line:

Enter [Group ID].

File list - The second and subsequent lines:

Enter [File definition: File name].

[Slave side]

Scenario:

Unnecessary

File list - The first line:

Enter [Group ID].

File list - The second and subsequent lines:

Enter [File definition: File name].

Setting example

[Master side]

USB memory contents

```
└─ filelist.dat
├─ scenario.dat
├─ L_Introduction.jpg
├─ L_Contents_Video1.wmv
├─ L_Contents_Video2.wmv
└─ L_Contents_Video3.wmv
```

filelist.dat

```
GroupID:G01
PHOTO_001:L_Introduction.jpg
VIDEO_001: L_Contents_Video1.wmv
VIDEO_002: L_Contents_Video2.wmv
VIDEO_003: L_Contents_Video3.wmv
```

scenario.dat

```
PHOTO_001:10
VIDEO_001:10
VIDEO_002:20
VIDEO_003:
```

[Slave side]

USB memory contents

```
└─ filelist.dat
├─ R_Introduction.jpg
├─ R_Contents_Video1.wmv
├─ R_Contents_Video2.wmv
└─ R_Contents_Video3.wmv
```

filelist.dat

```
GroupID:G01
PHOTO_001:R_Introduction.jpg
VIDEO_001: R_Contents_Video1.wmv
VIDEO_002: R_Contents_Video2.wmv
VIDEO_003: R_Contents_Video3.wmv
```

Play contents

For the above setting example, the following contents will be played on repeat (loop).

[Master side]

- 1. L_Introduction.jpg (10 seconds)
- 2. L_Contents_Video1.wmv (10 seconds)
- 3. L_Contents_Video2.wmv (20 seconds)
- 4. L_Contents_Video3.wmv (*1)

[Slave side]

- 1. R_Introduction.jpg (10 seconds)
- 2. R_Contents_Video1.wmv (10 seconds)
- 3. R_Contents_Video2.wmv (20 seconds)
- 4. R_Contents_Video3.wmv (*1)

*1 Played for the duration of the play time of L_Contents_Video3.wmv (Master side).

Note

- [Multi display settings] is not supported.

■ USB memory contents check

You can run a USB memory contents check in [USB media player settings] - [Scenario file check]. (see page 56)

If an error is present, the information is given with the following details.

A(B):C

A: Name of the file with an error

B: Row with an error

C: Error code

Note

- Shows leading error codes. Details of the detected errors are as follows.

Error code	Detail of the error
1.	No USB memory is inserted
2.	scenario.dat / filelist.dat cannot be opened
3.	There is an error in writing scenario.dat / filelist.dat
4.	The play file format is not supported
5.	No play file exists
6.	It is Multi Media Player, but no group ID is specified yet
7.	There are several identical file definitions
8.	The play time is outside the range
9.	The file listed in the scenario is not in the file list
10.	The scenario contains 0 or over 1000 play files
11.	There are 0 or over 1000 play files (Single Media Player Type3 only)
12.	Only the group ID is listed on the file list (Multi Media Player only)

Supplementary note

The USB memory contents check does not determine whether or not a play file is playable.

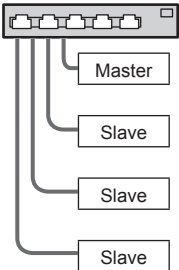
If a file cannot be played while Media Player is active, an error message will be displayed.

When performing the synchronized playback on the Multi Media Player, check if the file is playable using the "Scenario File Check" for "USB Media Player Setting"

Network environment (Multi Media Player only)

■ Example of setting up LAN connection and IP address / Subnet mask

As mentioned below, connect several units together with LAN cables and set up IP addresses / Subnet masks so that all the displays exist on the same network.



- IP address: 192.168.10.1
Subnet mask: 255.255.255.0
- IP address: 192.168.10.2
Subnet mask: 255.255.255.0
- IP address: 192.168.10.3
Subnet mask: 255.255.255.0
- IP address: 192.168.10.4
Subnet mask: 255.255.255.0

Note

- Set [Network control] of all displays to [On]. (see page 55)
- Depending on the network environment, synchronization may be largely lost.
- Do not connect other devices to prevent network traffic jam.
- With a router put in between, you cannot set up connection. Use them within the same subnet.
- Do not use wireless LAN for connection since playback may not be performed normally.

Starting / ending Media Player

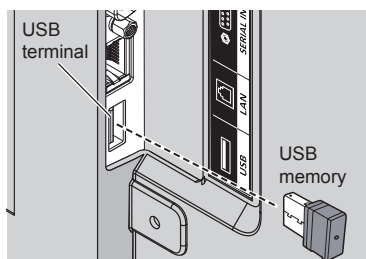
■ For Single Media Player

Start

1. Insert USB memory for Media Player.

Note

- Depending on the type of a USB memory device, it may come in contact with the periphery such as a back cover, and cannot be attached. Use a commercially sold extension cable, or use a small type of a USB memory device connectable to this unit.



2. Run a USB memory contents check.
3. Change INPUT to USB.

Ending

Change INPUT to other than USB.

■ For Multi Media Player

Start

1. Connect several units with LAN cables.
(see page 34 "Example of setting up LAN connection and IP address / Subnet mask")
2. Insert USB memory for Media Player into each Display.
3. Executes USB memory contents check on each Display.
4. Change INPUT for Slave to [USB].
5. Change INPUT for Master to [USB].

Ending

Change INPUT for Master to other than [USB]

Resume Play function

After Media Player ends, the file to be resumed when resuming playing varies depending on the setting of [USB media player settings] - [Resume play].

When set to [On]:

The file played prior to the end of Media Player starts playing from the beginning.

When set to [Off]:

Play starts from the beginning of the first file of the scenario.

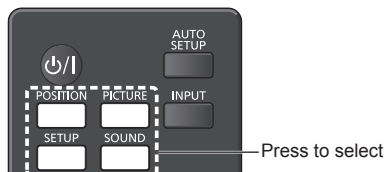
Note

- The resume play function is retained until the unit is turned off or the USB memory device is taken out.

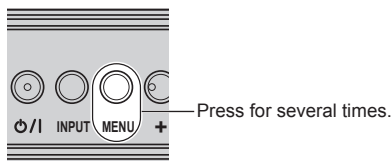
On-Screen Menu Displays

1 Display the menu screen.

Remote Control



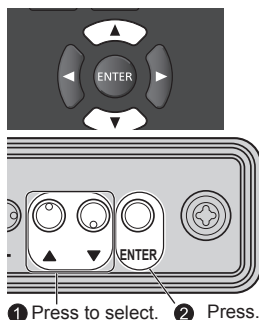
Unit



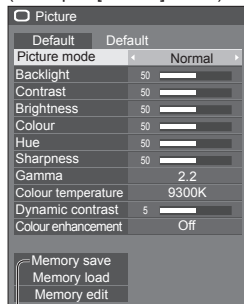
Each time the button is pressed, the menu screen will switch.

Normal Viewing → [Picture] → [Setup] → [Position] → [Sound]

2 Select the item.



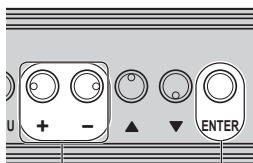
(Example: [Picture] menu)



Submenu

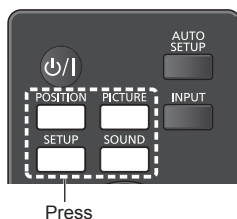
Press <ENTER> to display the submenu.

3 Set.

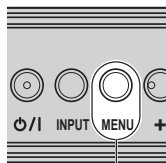


1 Press to select. 2 Press.

4 Exit from the menu.



Press <RETURN> to return to the previous screen.



Press for several times.

Menu display list

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

[Position] menu

Position	
Default	Default
Auto setup	
H-position	◀ 0 ██████████ ▶
H-size	0 ██████████
V-position	0 ██████████
V-size	0 ██████████
Clock phase	0 ██████████
Dot Clock	0 ██████████
1:1 pixel mode	Off

(see page 38-39)

[Sound] menu

Sound	
Default	Default
Output select	◀ SPEAKERS ▶
Sound mode	Normal
Bass	0 ██████████
Treble	0 ██████████
Balance	0 ██████████
Surround	Off

(see page 40)

[Picture] menu

Picture	
Default	Default
Picture mode	◀ Normal ▶
Backlight	50 ██████████
Contrast	50 ██████████
Brightness	50 ██████████
Colour	50 ██████████
Hue	50 ██████████
Sharpness	50 ██████████
Gamma	2.2
Colour temperature	9300K
Dynamic contrast	5 ██████████
Colour enhancement	Off
Memory save	
Memory load	
Memory edit	

(see page 41-46)

[Setup] menu

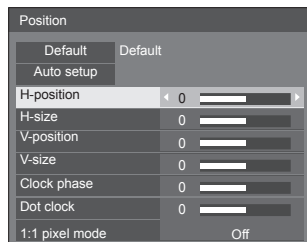
Setup 1/2	
Signal	
Screensaver	
Input label	
Power management settings	
Wobbling	Off
No activity power off	Disable
OSD language	English(UK)

Setup 2/2	
Multi Display Settings	
Set up timer	
Date and time	
Network settings	
USB media player settings	
Function button settings	
Display orientation	Portrait
OSD position	Upper/Right
Menu display duration	60 sec
Menu transparency	20 ██████████

(see page 47-58)

Adjusting Position

1 Press <POSITION> to display the [Position] menu.



2 Select the item to adjust with ▲ ▼.

- Unadjustable items are greyed out.

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

3 Adjust with ◀ ▶.

4 Press <POSITION> to exit from adjust mode.

■ To return to the previous screen

Press <RETURN>.

■ To reset to defaults

Press <DEFAULT> while the menu is displayed, or press <ENTER> when [Default] is selected, then the settings will be set to factory settings.

Note

- Settings for [Position] are memorised separately for each input signal.
- During USB input, the settings for [Position] cannot be made.

Setting [Position] when the display is installed vertically

When adjusting, please note that even when the display is installed vertically, setting directions of position / size are the same as that of horizontal installation.

Auto setup

When inputting a PC signal, [H-position] / [V-position], [H-size] / [V-size], [Dot clock] and [Clock phase] are automatically corrected.

This setting is enabled under the following conditions:

- When inputting an analogue signal (PC).

While displaying the picture of the corresponding signal, select [Auto setup] and press <ENTER>.

Using Remote Control

Press <AUTO SETUP>.

When Auto Setup does not work, [Invalid] is displayed.

Auto mode

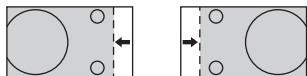
When the [PC auto setting] is set to [On] in the [Options] menu (see page 61), automatic position adjustment starts:

- When the display power is turned ON.
- When the input signal is switched.

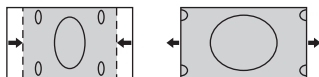
Note

- When the dot clock frequency of a PC signal is 162 MHz or higher, [Dot clock] and [Clock phase] cannot be automatically corrected.
- 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 XGA signal (1024×768, 1280×768, 1366×768), pre-selecting the individual signal in [XGA mode] (see page 48) 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 when intervals between synchronizing signal and image signal are short. Also it does not work well for image signals with trilevel synchronizing signal added, or for some SYNC ON G signals.
- If Auto Setup does not work well, select [Default], press <ENTER>, and then adjust the position/size manually.

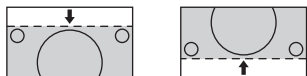
[H-position] Adjust the horizontal position with ◀▶.



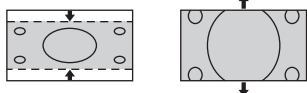
[H-size] Adjust the horizontal size with ◀▶.



[V-position] Adjust the vertical position with ◀▶.



[V-size] Adjust the vertical size with ◀▶.



[Clock phase] (During PC input signal)

In some cases, frame of the screen appears blurred or smudged, when RGB signal or PC signal are input.

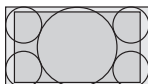
[Dot clock] (During PC input signal)

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.

Applicable input signal:

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



[On]



[Off]

Note

- 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.



[Off]



[On]

Applicable input signal:

1125 / 50i, 60i, 24PsF, 24p, 25p, 30p, 50p, 60p

Note

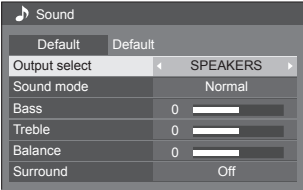
- Select [Off] when flickering is shown around the image.
- [H-size] and [V-size] cannot be adjusted when [On] is selected.

Note

- In some cases, noise appears outside the area picture is displayed, but it is not a malfunction.

Sound Adjustment

1 Press <SOUND> to display the [Sound] menu.



2 Select the item to adjust with ▲ ▼.

- Menu that cannot be adjusted is greyed out.

3 Select the desired level with ◀ ▶ by listening to the sound.

4 Press <SOUND> to exit from adjust mode.

■ To return to the previous screen

Press <RETURN>.

■ To reset to defaults

Press <DEFAULT> while the menu is displayed, or press <ENTER> when [Default] is selected, then the settings will be set to factory settings.

[Output select]

Select the audio output.

[SPEAKERS]: Internal speakers

[AUDIO OUT]: AUDIO OUT terminal output

- When [AUDIO OUT] is selected, the other menus are greyed out and cannot be selected.
- Audio volume setting is memorized separately for each output.

[Sound mode]

[Normal]: Emits the original sound.

[Dynamic]: Accentuates sharp sound.

[Clear]: Attenuates human voice.

[Bass]

Adjusts low pitch sounds.

[Treble]

Adjusts high pitch sounds.

[Balance]

Adjusts left and right volumes.

[Surround]

[Off]: Normal sound

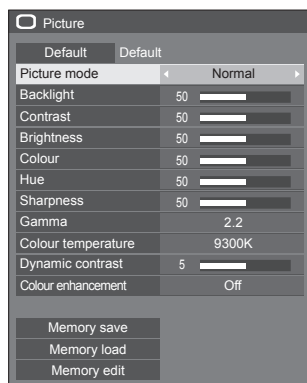
[On]: Surround sound

Note

- [Bass], [Treble] and [Surround] settings are memorised separately for [Normal], [Dynamic] and [Clear] in [Sound mode].

Picture Adjustments

1 Press <PICTURE> to display the [Picture] menu.



2 Select the item to adjust with ▲ ▼.

- Menu that cannot be adjusted is greyed out.

3 Select the desired level with ◀ ▶ by looking at the picture behind the menu.

4 Press <PICTURE> to exit from adjust mode.

■ To return to the previous screen

Press <RETURN>.

■ To reset to defaults

Press <DEFAULT> while the menu is displayed, or press <ENTER> when [Default] is selected, then the settings will be set to factory settings.

Note

- During PC IN input, the following settings cannot be made.
[Colour], [Hue], [Sharpness], [Dynamic contrast], [Colour enhancement]
- For still image during USB input, the following settings are not valid.
[Contrast], [Brightness], [Colour], [Hue], [Sharpness], [Dynamic contrast], [Colour enhancement]

[Picture mode]

This menu switches to easy-to-see pictures suitable to the picture source or environment where this unit is used.

[Normal]

For viewing in standard (evening lighting) environments.

[Dynamic]

For viewing in brighter environments.

[Cinema]

For use in viewing tone-focused pictures with brightness reduced.

- The setting are memorised separately for each input terminal.

- In [ENGLISH(US)] OSD language, [Normal] is displayed as [STANDARD].
- In [ENGLISH(US)] OSD language, the [Picture mode] is displayed as [PICTURE MENU].

[Backlight]

Adjusts luminance of the back light.

Darker ↔ Brighter

[Contrast]

Selects the proper brightness and density for the room.

Less ↔ More

- In [ENGLISH(US)] OSD language, [Contrast] is displayed as [PICTURE].

[Brightness]

Adjusts for easier viewing of dark pictures such as night scenes and black hair.

Darker ↔ Brighter

[Colour]

Adjusts colour saturation.

Less ↔ More

[Hue]

Adjusts for nice skin colour.

Reddish ↔ Greenish

[Sharpness]

Adjusts picture sharpness.

Less ↔ More

[Gamma]

Adjusts gamma.

[2.0], [2.2], [2.4], [2.6]

Small tilt - Large tilt

[Colour temperature]

Adjusts colour tone.

[3200K], [4000K], [5000K], [6500K], [7500K], [9300K], [10700K], [Native], [USER1], [USER2]

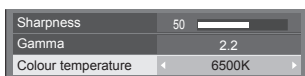
Note

- Emphasizes red when the numerical value of [Colour temperature] is small, and emphasizes blue when it is big.
- [Native] is a colour tone of the panel element, and [Gamma] is fixed to 2.2 or equivalent.
- You can select [USER1] and [USER2] when you set the following user settings.

User setting of [Colour temperature]

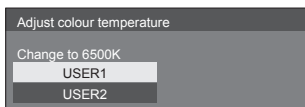
2 kinds of detailed [Colour temperature] settings can be stored.

- Press <ENTER> while setting [Colour temperature].

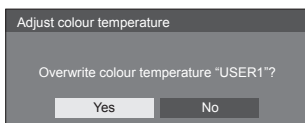


Example: When [Colour temperature] is [6500K], it is possible to reflect the set point, [6500K], to the set point of [USER1] and [USER2].

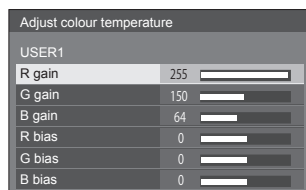
- Select the user to memorise settings with ▲ ▼ and press <ENTER>.



- Select [Yes] with ◀ ▶ and press <ENTER>.



- Set each item on detail settings screen.



[R gain]

Adjusts the white balance for light red areas.

0 to 255

[G gain]

Adjusts the white balance for light green areas.

0 to 255

[B gain]

Adjusts the white balance for light blue areas.

0 to 255

[R bias]

Adjusts the white balance for dark red areas.

-127 to 128

[G bias]

Adjusts the white balance for dark green areas.

-127 to 128

[B bias]

Adjusts the white balance for dark blue areas.

-127 to 128

The settings are memorised separately for each input terminal.

When you return to [Picture] menu, the user you have set is selected for [Colour temperature].



[Dynamic contrast]

Automatically adjusts the contrast by determining the changes in the use of colours for images that constantly change, such as motion pictures.

[Colour enhancement]

While set to [On], displays images by emphasising colours.

Picture Profiles

Up to 6 combinations of picture adjustment values (in the [Picture] menu) can be stored in the display memory as profiles and applied as needed, for a convenient way to enjoy your preferred picture settings.

Picture

Default

Default

Picture mode		Normal
Backlight	50	<div></div>
Contrast	50	<div></div>
Brightness	50	<div></div>
Colour	50	<div></div>
Hue	50	<div></div>
Sharpness	50	<div></div>
Gamma		2.2
Colour temperature		9300K
Dynamic contrast	5	<div></div>
Colour enhancement		Off

Memory save

Memory load

Memory edit

[Memory save]
(see page 44)

[Memory load]
(see page 45)

[Memory edit]
(see page 45)

1. []	MEMORY1
2. [*]	MEMORY2
3. [*]	MEMORY3
4. []	MEMORY4
5. []	MEMORY5
6. []	MEMORY6

Overview of Picture Profiles

Original picture



Adjust picture.
(see page 41-42)



Custom picture



Example:
Save the picture adjustment values in the [MEMORY1] profile.
[Memory save]

Original picture



Example:
Load [MEMORY1].
[Memory load]



Custom picture



[Memory edit] screen

1. [*]	MEMORY1
2. [*]	MEMORY2
3. [*]	MEMORY3

Example:
Change the memory name to [MY PICTURE].
[Memory edit]



1. [*]	MY PICTURE
2. [*]	MEMORY2
3. [*]	MEMORY3

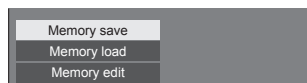
Saving profiles

Follow these steps to save picture adjustment values as profiles.

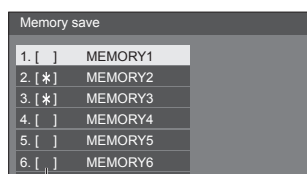
1 Specify the picture quality in the [Picture] menu.

(see page 41, 42)

2 In the [Picture] menu, select [Memory save] with ▲▼ and press <ENTER>.

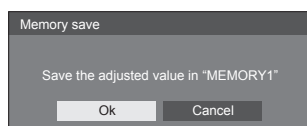


3 Select a profile name for saving the picture adjustment values with ▲▼ and press <ENTER>.



- [*] appears for a profile in which the picture adjustments have already been saved.

4 Select [Ok] with ◀▶ and press <ENTER>.

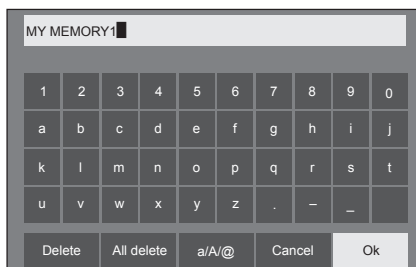


5 Enter a profile name with ▲▼◀▶.

- Entering characters (see page 74)



6 When you finished entering the profile name, select [Ok] with ▲▼◀▶ and press <ENTER>.

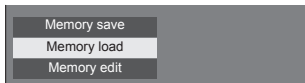


- To cancel saving the profile, select [Cancel].

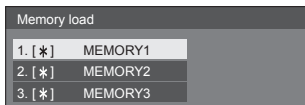
Loading profiles

Load profiles and apply the picture adjustment values to the display as follows.

- 1 In the [Picture] menu, select [Memory load] with ▲ ▼ and press <ENTER>.



- 2 Select the profile to load with ▲ ▼ and press <ENTER>.



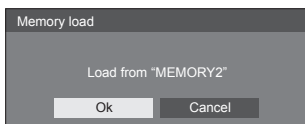
Loading profiles using numeric buttons on the remote control.

Each numeric button <1> - <6> is allocated for loading [MEMORY1] - [MEMORY6].

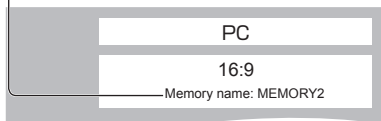
[Function button settings] (see page 57)

- 1 Press any of <1> - <6>.

- 2 Select [Ok] with ◀ ▶ and press <ENTER>.



When profile is being loaded, profile name is displayed.



Note

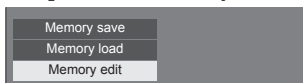
- Loaded profiles are stored in memory according to the selected input terminal.

Editing profiles

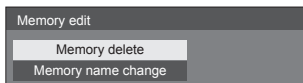
Delete or rename profiles as follows.

Deleting profiles

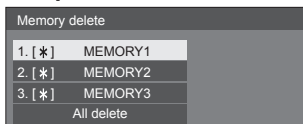
- 1 In the [Picture] menu, select [Memory edit] with ▲ ▼ and press <ENTER>.



- 2 Select [Memory delete] with ▲ ▼ and press <ENTER>.

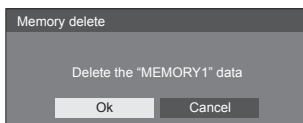


- 3 Select the profile to delete with ▲ ▼ and press <ENTER>.



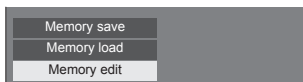
- To delete all profiles, select [All delete].

- 4 Select [Ok] with ◀ ▶ and press <ENTER>.

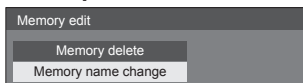


Renaming profiles

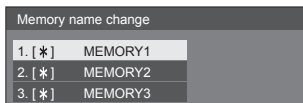
- 1 In the [Picture] menu, select [Memory edit] with ▲ ▼ and press <ENTER>.



- 2 Select [Memory name change] with ▲ ▼ and press <ENTER>.

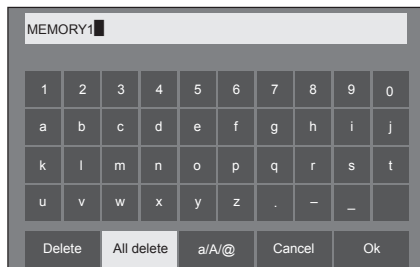


- 3 Select the profile to rename with ▲ ▼ and press <ENTER>.



4 Enter a name for the profile with ▲▼◀▶.

- Entering characters (see page 74)



MEMORY1

1	2	3	4	5	6	7	8	9	0
a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t
u	v	w	x	y	z	.	-	_	

Delete All delete a/A/@ Cancel Ok

5 When you finished entering the profile name, select [Ok] with ▲▼◀▶ and press <ENTER>.

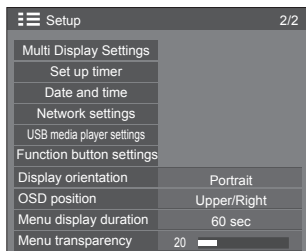
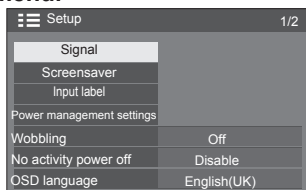


Delete All delete a/A/@ Cancel Ok

- To cancel renaming the profile, select [Cancel].

Setup menu

1 Press <SETUP> to display the [Setup] menu.



2 Select the item to set with ▲▼.

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

3 Set with ◀▶.

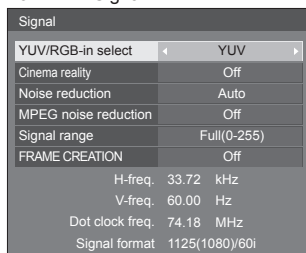
4 Press <SETUP> to exit from adjust mode.

■ To return to the previous screen

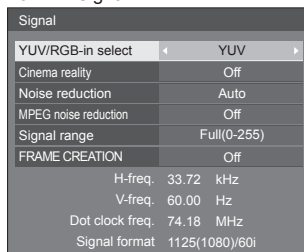
Press <RETURN>.

Signal

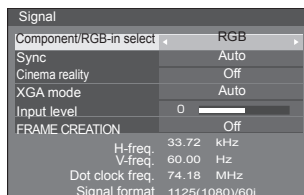
For HDMI Signal



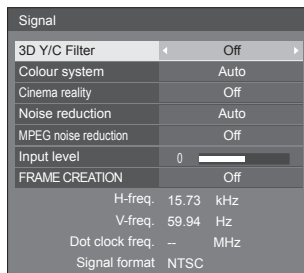
For DVI Signal



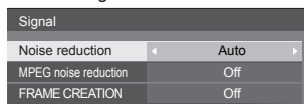
For PC Signal



For composite video signal



For USB signal



Note

- [Signal] setup menu displays a different setting condition for each input signal.
- Menu that cannot be adjusted is greyed out.

[Component/RGB-in select]

This menu is displayed when the PC signal input.
Select to match the signals from the source connected to the PC IN terminal.

[Component] Y, Pb, Pr/Y, Cb, Cr signals

[RGB] RGB signals

[YUV/RGB-in select]

This menu is displayed when the HDMI and PC signal inputs.

Select to match the signals from the source connected to the HDMI 1, HDMI 2 and DVI-D IN terminals.

[YUV] YUV signals

[RGB] RGB signals

[Sync]

This function operates only during PC IN input.

Setting RGB/PC sync signal

[Auto]:

The H and V sync or synchronized signal is automatically selected. When both of them have sync, H and V sync will be selected.

[on G]:

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

[HV sync]:

Uses a synchronized signal on the Video HD/VD signal, which is input from the HD/VD connector.

Setting Component sync signal

[Auto]:

The H and V sync or synchronized signal is automatically selected. When both of them have sync, H and V sync will be selected.

[on Y]:

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

[HV sync]:

Uses a synchronized signal on the Video HD/VD signal, which is input from the HD/VD connector.

[Cinema reality]

Faithfully reproduces videos shot with cinema films. Set this to [Off] normally.

Note

- In [ENGLISH(US)] OSD language, [Cinema reality] is displayed as [3:2 PULLDOWN].
- If [Cinema reality] is set to [On], videos including movies shot at 24 frames per second are reproduced more naturally.
- If the video is unnatural with [On] set, set it to [Off].

[Noise reduction]

Reduces picture noise.

[Off]:

Disables Noise Reduction.

[Min], [Mid], [Max]:

Sets strength of Noise Reduction.

[Auto]:

Noise reduction will be automatically selected from [Min], [Mid] or [Max].

Note

- This menu is not displayed during PC IN input.

[MPEG noise reduction]

Reduces block noise and mosquito noise on MPEG videos.

[Off]:

Disables Noise Reduction.

[Min], [Mid], [Max]:

Sets strength of Noise Reduction.

Note

- This menu is not displayed during PC IN input.

[XGA mode]

This menu is displayed during PC IN input.

This unit supports XGA signals (1024 × 768, 1280 × 768, 1366 × 768) having different aspect ratios and sampling rates.

[Auto]:

Automatically detects the signal.

Switch the setting to suit the input signal for better display depending on the angle of view or display resolution condition.

Note

- After making this setting, be sure to make each adjustment (such as [Auto setup]) on the [Position] menu as necessary. (see page 38)

[Signal range]

Switches the dynamic range according to the input signals below.

HDMI1, HDMI2, DVI-D

[Video(16-235)]:

If the input signal is the video range, Example: HDMI terminal output for DVD player

[Full(0-255)]:

If the input signal is full range, Example: HDMI terminal output for personal computer

[Auto]:

Switches the dynamic range automatically between [Video(16-235)] and [Full(0-255)] according to the input signal.

Note

- [Auto] can be selected when the HDMI signal input.

[Input level]

This menu is displayed at PC IN and VIDEO input.

Adjustment of parts which are extremely bright and hard to see.

-16 to + 16:

(Level low) - (Level high)

[3D Y/C filter]

Set this if the video looks unnatural during the composite video signal input. Set this to [On] normally.

Note

- Depending on the signaling system, this setting may be less effective or may not be effective at all.

[Colour system]

Sets the colour system according to the signal method during the composite video signal input. Set this to [Auto] normally. This automatically detects the input signal format.

[Auto], [PAL], [SECAM], [NTSC], [NTSC 4.43], [PAL M], [PAL N]:

Set this to [Auto] when viewing PAL-60 videos.

When images are unstable

When the system is set to [Auto], images become unstable in rare case under the condition that the input signals are at low level or have many noises. In this case, set the system so it conforms with the input signal format.

For 65-inch model

[FRAME CREATION]

Improves motion picture quality. Select [Off] when the motion picture looks unnatural.

[Off]:

The frame creation is disabled.

[Min], [Mid], [Max]:

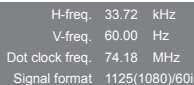
Set the degree of the frame creation.

Note

- [FRAME CREATION] is a function for 65-inch models. This function is not available for 43 / 48 / 55-inch models.

Input signal display

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



H-freq.	33.72	kHz
V-freq.	60.00	Hz
Dot clock freq.	74.18	MHz
Signal format	1125(1080)60i	

Display range:

Horizontal (15 kHz - 135 kHz)

Vertical (24 Hz - 120 Hz)

The dot clock frequency is displayed during Digital and PC signal inputs.

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.



■ Screensaver settings

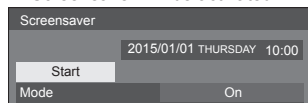
Screensaver operation

When the Screensaver is operating, the following 5 patterns are displayed full screen for 5 seconds each, and it will be repeated.

Black → Dark grey → Grey → Light grey → White → Light grey → Grey → Dark grey

To start Screensaver now

- ① Select [On] in [Mode].
- ② Select [Start] and press <ENTER>.
 - The menu screen will disappear and the Screensaver will be activated.

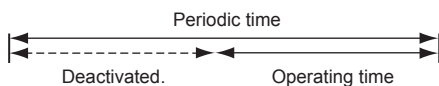
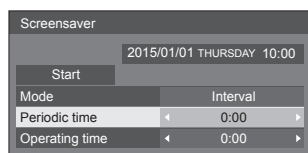


Note

- If the following buttons are pressed while the screen saver is operating, the screen saver is cancelled.
Remote control: <RETURN>
Main unit:
<MENU> <INPUT> <+> <-> ▲ ▼ <ENTER>
- When the display is turned off, the Screensaver will be deactivated.

To set interval of Screensaver

- ① Select [Interval] in [Mode].
- ② Set [Periodic time].
 - Press ◀▶ to change the time by 15 minutes.
- ③ Set [Operating time].
 - Press ◀▶ once to change the time by 1 minute.
Keep pressing down to change the time by 15 minutes.

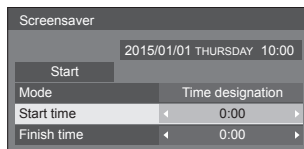


Note

- It is not possible to set the duration of [Operating time] longer than that of [Periodic time].

To set start and finish time of Screensaver

- ① Select [Time designation] in [Mode].
- ② Set [Start time] and [Finish time].
 - Press ◀▶ once to change the time by 1 minute.
Keep pressing down to change the time by 15 minutes.

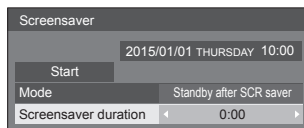


Note

- Please set [Date and time] before setting [Start time] and [Finish time]. (see page 54)

To turn the power off after Screensaver

- ① Select [Standby after SCR saver] in [Mode].
- ② Set [Screensaver duration].
 - Press ◀▶ once to change the time by 1 minute.
Keep pressing down to change the time by 15 minutes.
- ③ Select [Start] and press <ENTER>.
 - Screensaver will be activated and the power will be turned off (Standby) at the time set.



Note

- [Screensaver duration] can be set from 0:00 to 23:59.

When this is set to [0:00], [Standby after SCR saver] will not be activated.

Input label

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

Input label	
HDMI1	HDMI1
HDMI2	HDMI2
DVI-D	DVI-D
PC	PC
VIDEO	VIDEO

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

- (Skip): When <INPUT> is pressed, the input will be skipped.

Power management settings

Set each item to reduce power consumption.

Power management settings	
Power management mode	Custom
No signal power off	Disable
HDMI1 power management	Off
HDMI2 power management	Off
DVI-D power management	Off
PC power management	Off
Power save	Off

■ Power management mode: On

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

- [No signal power off]: [Enable]
- [HDMI1 power management]: [On]
- [HDMI2 power management]: [On]
- [DVI-D power management]: [On]
- [PC power management]: [On]
- [Power save]: [On]

■ Power management mode: Custom

The menu of the power consumption reduction is individually set. This setting is enabled when [Power management mode] is set to [Custom].

[No signal power off]

When this is set to [Enable], the power supply of the unit goes off automatically when there is no operation or sync signal for about 10 minutes.

Note

- With the USB input, the unit determines no signal is present when the USB device is not connected.

[HDMI1 power management]

[HDMI2 power management]

When this function is set to [On], it operates under the following conditions to turn the power on or off automatically.

When no pictures (sync signal) are detected for 60 or so seconds at HDMI1 or HDMI2 input:

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

When pictures (sync signal) are subsequently detected:

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

[DVI-D power management]

When this function is set to [On], it operates under the following conditions to turn the power on or off automatically.

When no pictures (sync signal) are detected for 60 or so seconds at DVI-D input:

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

When pictures (sync signal) are subsequently detected:

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

[PC power management] (DPMS function)

When this function is set to [On], it operates under the following conditions to turn the power on or off automatically.

When no pictures (HD/VD sync signals) are detected for 60 or so seconds at PC input:

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

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

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

Note

- This function is effective when [Sync] in [Signal] is set to [Auto] or [HV sync] and during normal viewing and [Component/RGB-in select] is set to [RGB]. (see page 48)

[Power save]

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

[Off]:

This function does not operate.

[On]:

Backlight brightness is reduced.

Note

- If [Input search] is set to items other than [Off], the [Input search] function is prioritised. (The power management function does not operate for each terminal.) (For details of [Input search] function, see page 59.)

Wobbling

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

Setting this to [On] moves the screen position at certain intervals and displays the images.

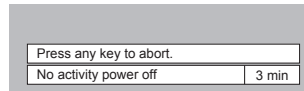
Note

- If [Multi display setting] is set to [On], this function does not operate. (see page 53)
- When this function is operating, part of the screen may appear to be missing

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.

OSD language

Select your preferred language.

Selectable languages

English(UK)

Deutsch

Français

Italiano

Español

ENGLISH(US)

中文 : Chinese

日本語 : Japanese

Русский : Russian

Multi Display Settings

1 to 5 displays can be aligned in horizontal direction and vertical direction respectively, and those displays are regarded as one group. The enlarged image is shown on the combined display.

Multi Display Settings

Multi Display Settings	
Multi display setting	Off
Horizontal scale	2
Vertical scale	2
Bezel H adjustment	0
Bezel V adjustment	0
Location	A1

Note

- The settings are memorised separately for each input terminal.
- When the multi display is set to [Off], adjust to the same angle of view for [Position] (see page 38). Then, set the multi display to [On]. Again, make fine adjustment of the angle of view for [Position].
- The [Position] menu can be adjusted in the multi display status.
- During USB input, the Multi Display mode is not available.

Multi display setting

Off: The display is not divided when enlarged.

On: The display is divided when enlarged.

When [On] is set, the display aspect is [16:9].

Horizontal scale

Set the horizontal scale in the multi display.

1- 5

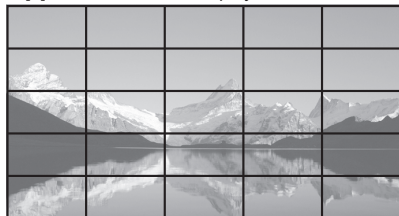
Vertical scale

Set the vertical scale in the multi display.

1- 5

e.g.) Horizontal scale [5] and Vertical scale

[5] is set in the multi display



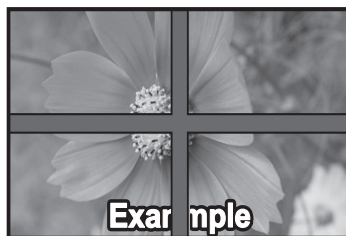
Bezel H adjustment, Bezel V adjustment

Adjust the area of image hidden in the joint horizontally and vertically respectively.

0 - 100

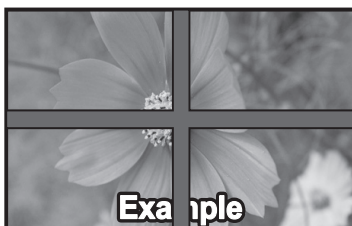
Display example

Setting value: 0



Displays the entire image including the joint area. (Suitable when displaying character information on PC.)

Setting value: 100



Does not display the image of the joint area. (Suitable when displaying motion pictures.)

Enlarged position

Assign the multi display position.

e.g.) Horizontal scale [5], Vertical scale [5]

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

Select from A1 to A5, B1 to B5, C1 to C5, D1 to D5, E1 to E5.

- The displayed content for setting changes according to the settings for the [Horizontal scale] and [Vertical scale].

Set up timer

Sets the program to turn the power on/off or switch video inputs at the specified time. Up to 20 programmes can be set.

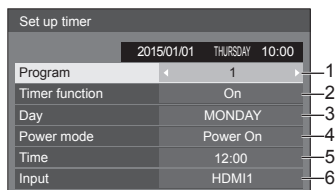
Note

- Set [Date and time] before setting Timer. (see page 54)
- When multiple programs are set at the same time, the program with the smallest program number is enabled.

[Setting Example]

Program 1 Every Monday 12:00

Power On Input: HDMI1

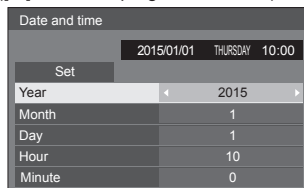


1. Set the program number.
2. To execute the program, set to [On].
The program is disabled when [Off] is set.
3. Set the day.
The program is executed every day when [Everyday] is set.
4. Set the power On/Off.
5. Set the time.
Pressing ◀▶ once changes time 1 minute.
Pressing continuously changes time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

Date and time

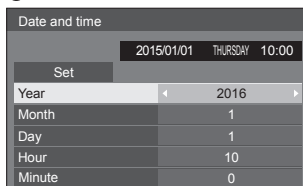
Set date and time.

([- -] shows no programme is set.)

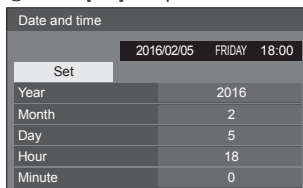


■ Set date and time

- ① Select [Year / Month / Day / Hour / Minute].
- ② Set the selected item. ◀▶



- ③ Select [Set] and press <ENTER>.



Note

- If the present date and time are not set, the time settings for [Set up timer], [Screensaver], etc. cannot be made.
- The present date and time setting is reset in the following case.
- When the main unit is left unattended after the power switch of the main unit is turned OFF, the power plug is removed, or power failure has occurred, etc.
- Date and time cannot be set when [Year / Month / Day / Hour / Minute] are set to [- -].

Network settings

Set when networking with a computer.

[Network settings] submenu will be displayed.

Network settings	
Network control	Off
Display name	LFE8-00
LAN setup	
Network status	
AMX D.D.	Off
Crestron Connected™	Off
Reset	

■ [Network control]

Set when controlling with the unit's LAN terminal.

[On]:

Controls via LAN using the LAN terminal of the Display. The power indicator lights orange when the power is turned off with the remote control (standby).

[Off]:

Invalidates control with LAN terminal.

(In this case, the power consumption of Standby condition (when the power is turned off with the remote control) will be slightly reduced.)

Note

- When using the LAN control function for "Using Network Function" (page 64-72), set this function to [On].

■ [Display name]

The name of the Display that is shown on the network can be changed.

■ [LAN setup]

Detailed network settings for the LAN established via the LAN terminal of the Display or twisted pair cable transmitter can be configured.

Select [LAN setup] with ▲ ▼ and press <ENTER>.

LAN setup	
Save	
DHCP	Off
IP address	192.168. 0. 8
Subnet mask	255.255.255. 0
Gateway	192.168. 0. 1
Port	1024

[DHCP], [IP address], [Subnet mask], [Gateway]

- Press ◀▶ to set [On] / [Off] of [DHCP] and press <ENTER>.

When [Off] is selected, IP address and other settings can be set manually.

[DHCP]:

(DHCP client function)

[On]:

Obtains an IP address automatically when a DHCP server exists in the network the Display is going to be connected.

[Off]:

When a DHCP server does not exist in the network the Display is going to be connected, set [IP address], [Subnet mask] and [Gateway] manually.

[IP address]:

(IP address display and setting)

Enter an IP address when DHCP server is not used.

[Subnet mask]:

(Subnet mask display and setting)

Enter a Subnet mask when DHCP server is not used.

[Gateway]:

(Gateway address display and setting)

Enter a gateway address when DHCP server is not used.

Note

- When [DHCP] is set to [On], the IP address, etc. will be displayed in gray.

Entering numbers

IP address
192.168. 0. 8

- Select the address and press <ENTER>.
- Select digits with ◀▶.
- Change numbers with ▲ ▼.
- Press <ENTER>.

You can cancel the change by pressing <RETURN>.

- Select [Save] and press <ENTER>.

Save the current network Setup.

Note

- To use a DHCP server, make sure the DHCP server is started.
- Contact your network administrator for details on [IP address], [Subnet mask] and [Gateway].
- Shipping condition
[DHCP]: Off
[IP address]: 192.168.0.8
[Subnet mask]: 255.255.255.0
[Gateway]: 192.168.0.1

[Port]

Set the port number used for command control.

Select [Port] and press <ENTER> to set the number.

- The available setting range is 1024 - 65535.
- Entering numbers (see page 55)

Note

- When the PJLink protocol is used, the port setting is not necessary.

[Network status]

Checks the current Network settings status.

Network status	
DHCP	Off
IP address	192. 168. 0. 8
Subnet mask	255. 255. 255. 0
Gateway	192. 168. 0. 1
MAC address	12:34:56:78:9A:BC

[AMX D.D.]

Set whether to allow the Display to be detected by AMX Device Discovery.

[On]:

Enables detection by AMX Device Discovery.

[Off]:

Disables detection by AMX Device Discovery.

- For more details, visit the following web site.
<http://www.amx.com/>

[Crestron Connected™]

When this function is set to [On], the Display can be monitored or controlled via the network using equipment and application software of Crestron Electronics, Inc.

This Display supports the following application software from Crestron Electronics, Inc.

- RoomView® Express
- Fusion RV®
- RoomView® Server Edition

[Crestron Connected™] is a function to connect to a system developed by Crestron Electronics, Inc. which manages and controls multiple system devices connected to the network.

- For details of "Crestron Connected™", refer to the Crestron Electronics, Inc. website (Provided only in English).

<http://www.crestron.com/>

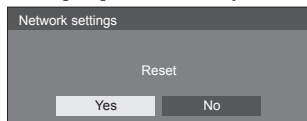
For the download of "RoomView® Express", refer to the Crestron Electronics, Inc. website (Provided only in English).

<http://www.crestron.com/getroomview>

[Reset]

You can reset the network setting to the factory default of the Display.

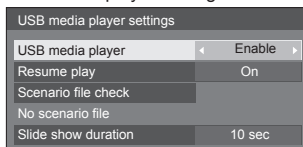
Select [Yes] with ◀▶ and press <ENTER>.



USB media player settings

Set for USB media player function.

USB media player settings



■ USB media player

Set to enable or disable to USB media player function.

■ Resume Play

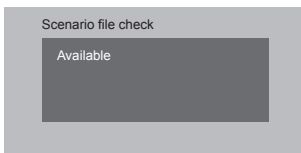
Set to enable or disable to play to be resumed.

■ Scenario file check

Execute the USB memory contents check. If any error is detected, the error code and file name will be displayed.

For details of the error codes, refer to "USB memory contents check".(see page 34)

Select [Scenario file check] with ▲▼ and press <ENETR>.



■ Slide show duration

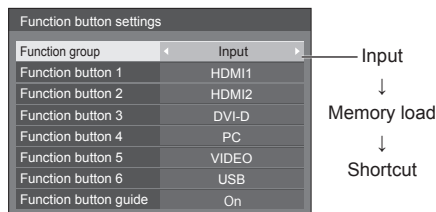
Select the displaying duration for still images.

10 sec - 600 sec

Function button settings

Assigns specific functions to the numeric buttons (<1> to <6>). The buttons can be used as shortcut keys by assigning frequently used operations.

1 Switch [Function group] with ◀▶.



2 Select the numeric button with ▲▼ and set the function to assign with ◀▶.

■ Functions assignable to the numeric buttons

[Input] (Direct input select)

Input can be selected with single-touch operation.

HDMI1 / HDMI2 / DVI-D / PC / VIDEO / USB

[Memory load]

Memory can be loaded with single-touch operation.

Memory load (see page 45)

[MEMORY1] - [MEMORY6]

[MEMORY1] to [MEMORY6] load functions are already assigned to <1> to <6> respectively. These settings cannot be changed.

[Shortcut]

[Signal], [Screensaver], [Set up timer],

[Power management settings], [Network settings]

- Pressing the numeric button displays the menu screen. Pressing the button again exits the menu screen.

[AV mute]

- Pressing the numeric button mutes the audio and pictures.

To cancel, press any button on the remote control except Standby (ON/OFF) button.

Shipping condition

The following functions are assigned to the numeric buttons as factory default.

	[Input]	[Memory load]	[Shortcut]
1	HDMI1	MEMORY1	[Signal]

2	HDMI2	MEMORY2	[Screensaver]
3	DVI-D	MEMORY3	[Set up timer]
4	PC	MEMORY4	[Power management settings]
5	VIDEO	MEMORY5	[Network settings]
6	USB	MEMORY6	[AV mute]

■ Function button guide

Sets the function display when numeric buttons are pressed. Set this for each function group.

[On]: Displays the function list for the numeric buttons.

[Off]: Does not display the function list. Operation starts when numeric buttons are pressed.

Note

- When <FUNCTION> is pressed, [Function button guide] will be displayed regardless of the [On] / [Off] settings.

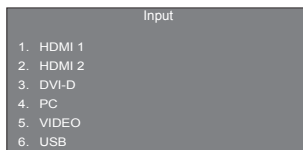
To use shortcut (numeric buttons)

1 Press <FUNCTION> or <1> - <6>.

[Function button guide] will be displayed.

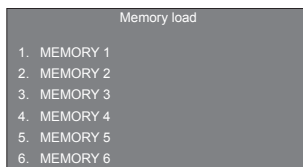
[Function button guide]: When [Off] is set, pressing the numeric button starts operation.

Example: Input



2 Press <FUNCTION> to switch function group.

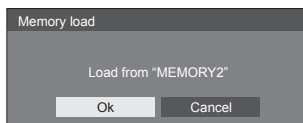
Example: Memory load



3 Press <1> - <6>.

The function for the pressed button starts to operate.

Example: When <2> is pressed.



Display orientation

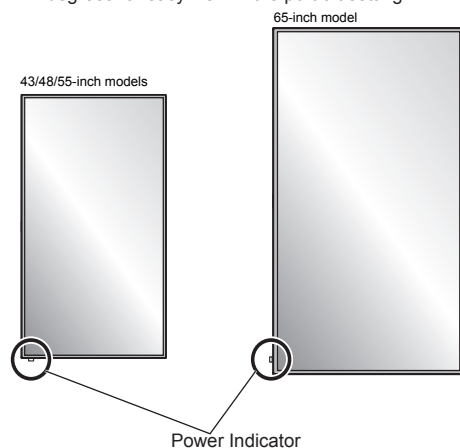
Sets the on-screen display orientation in the portrait setting.

[Landscape]:

On-screen display angle is for horizontal installation.

[Portrait]:

The on-screen display rotates anticlockwise by 90 degrees for easy view in the portrait setting.



Note

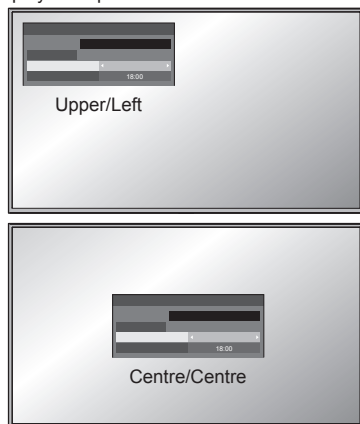
- In the portrait setting, the power indicator shall come to the downside.

OSD position

Sets the display position of the on-screen menu.

Each time ◀ or ▶ is pressed, the display position of the on-screen menu changes.

Display example:



Menu display duration

Sets the display duration time for the on-screen menu.

[5 sec - 180 sec]

Menu transparency

Sets the transparency rate of the on-screen display background.

0 - 100

Options Adjustments

This unit offers special functions conveniently used according to the installation location and application.

1 Press <SETUP>.

[Setup] menu screen will be displayed.

2 Select [OSD language] with ▲▼ and press <ENTER> for more than 3 seconds.

Following screen will be displayed.

Options
Display serial number
Software licenses
USB data cloning
Shipping

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

[Options] menu screen will be displayed.

Options	1/3
Input search	
Onscreen display	On
Initial input	Off
Initial VOL level	Off 0
Maximum VOL level	Off 0
Input lock	Off
Button lock	Off
Controller user level	Off
PC auto setting	Off

Options	2/3
Off-timer function	Enable
Initial power mode	Normal
Display ID	0
Controller ID function	Off
Serial ID function	Off
LAN control protocol	Protocol 1
Information timing	

Options	3/3
Power on screen delay	Off
Clock display	Off
Power on message(No activity power off)	On
Power on message(Power management)	On
POWER button lock	Off

4 Select the item to set with ▲▼.

- For [Input search] and [Information timing], the sub menu screen will be displayed when you press <ENTER>.
(see page 59, 62)

5 Set with ◀▶.

6 Press <SETUP> to exit from [Options] menu.

Note

- The remote control is necessary to display the [Options] menu. The control panel buttons on the main unit cannot be used to display the menu.
- Press <RETURN> to return to the previous menu.
- The serial number of this device is displayed when [Display serial number] is selected in step 3.
- The software License is displayed when [Software licenses] is selected in step 3.

Input search

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

Select the item with ▲▼.

Select the set point with ◀▶.

Input search
Input search
1st search input
2nd search input

[Input search]

[Off]:

When there is no signal, the input is not switched automatically.

[All inputs]:

Searches all inputs and switches to an input with a signal.

Input search is executed in the following order.

(Example) When the current input is [HDMI1]

[HDMI2] → [DVI-D] → → [USB] → [HDMI1]

[Custom]:

Repeatedly searches [Current input], [1st search input] and [2nd search input] in order, and switches to an input with a signal.

PC
16:9
Searching...

[Searching...] is displayed during the input search.

[1st search input], [2nd search input]

Set the input to search when [Custom] is selected.

(None) / [HDMI1] / [HDMI2] / [DVI-D] / [PC] / [VIDEO] / [USB]

Note

- This menu is available only when [Input lock] is [Off].
(see page 60)
- If the input is changed by this function, the last input is selected when the power is turned on next time.
If you wish to retain the original input when the power is turned on, set [Initial input] to the original input.

Onscreen display

Set to display / hide the following Onscreen display.

- Power on display
- Input signal switch display
- No signal display
- MUTE display after displaying the menu screen
- MUTE and off timer remaining time display after <RECALL> is pressed
- Off timer remaining time display when 3 minutes remaining

[On]: Displays the Onscreen display.

[Off]: Hides the Onscreen display.

Initial input

Adjusts the input signal when the unit is turned on.

[Off] / [HDMI1] / [HDMI2] / [DVI-D] / [PC] / [VIDEO] / [USB]

Note

- This menu is available only when [Input lock] is [Off]. (see page 60)

Initial VOL level

Adjusts the sound volume level when the unit is turned on.

[Off]: It will be the sound volume level which had been set before the power of the unit was turned off.

[On]: Sets your preferred volume.

- 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.

■ To adjust sound volume level

Press <VOL +> <VOL ->.

Note

- When [Maximum VOL level] is [On], the volume can only be adjusted between 0 and your maximum range. (see page 60)

Maximum VOL level

Adjusts the maximum volume.

[Off]: The sound volume level can be set up to 100 (maximum).

[On]: The sound volume level will not exceed the set point.

- 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.

■ To adjust sound volume level

Press <VOL +> <VOL ->.

Note

- When the [Maximum VOL level] is set lower than the [Initial VOL level], the [Initial VOL level] automatically becomes the same as the [Maximum VOL level].
The volume display can go up to 63 regardless of the settings.

Input lock

Locks the input switch operation.

[Off] / [HDMI1] / [HDMI2] / [DVI-D] / [PC] / [VIDEO] / [USB]

Note

- Input switch can be used when this is set to [Off].

Button lock

Limits operation of the buttons on the unit.

[Off]:	All the buttons on main unit can be used.
[MENU&ENTER]:	Locks <MENU (Unit)> and <ENTER (Unit)> buttons.
[On]:	All button operations except for the power switch are disabled.

■ To set [Button lock]

Set with the buttons on the unit.

[Off]:	<ol style="list-style-type: none">① Press <+ (Unit)> for 4 times.② Press <INPUT (Unit)> for 4 times.③ Press <- (Unit)> for 4 times.④ Press <ENTER (Unit)>.
[MENU&ENTER]:	<ol style="list-style-type: none">① Press <ENTER (Unit)> for 4 times.② Press <+ (Unit)> for 4 times.③ Press <INPUT (Unit)> for 4 times.④ Press <ENTER (Unit)>.
[On]:	<ol style="list-style-type: none">① Press <- (Unit)> for 4 times.② Press <ENTER (Unit)> for 4 times.③ Press <+ (Unit)> for 4 times.④ Press <ENTER (Unit)>.

Controller user level

Limits operation of the buttons on the remote control.

[Off]:	You can use all of the buttons on the remote control.
[User1]:	You can only use standby (ON/OFF) button, <INPUT>, <RECALL>, <MUTE>, <VOL +> and <VOL -> buttons on the remote control.
[User2]:	You can only use standby (ON/OFF) button on the remote control.
[User3]:	Locks all the buttons on the remote control.

PC auto setting

Sets the operational mode of the automatic position adjustment in the [Position] menu.

[Off]:	Automatic position adjustment starts when <AUTO SETUP> is pressed on the remote control or automatic position adjustment is executed from the [Position] menu.
[On]:	Other than remote control or menu operation, automatic position adjustment starts: When the display power is turned ON. When the input signal is switched.

Off-timer function

Enables / disables Off timer function.

[Enable]:	Enables the [Off-timer function].
[Disable]:	Disables the [Off-timer function].

Note

- When [Disable] is set, the Off-timer is cancelled.

Initial power mode

Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again.

[Normal]:	Power returns in as the same state as before the power interruption.
[Standby]:	Power returns in standby mode. (Power Indicator: red/orange)
[On]:	Power returns in power On. (Power Indicator: green)

Note

- When using multiple displays, [Standby] is preferred to be set in order to reduce a power load.

Display ID

Sets ID number when controlling the Display with [Controller ID function] and [Serial ID function].

0 - 100 (Standard value: 0)

Controller ID function

Enables/Disables the ID remote control function.

[Off]:	Disables the ID remote control function. (Can be operated as normal remote control.)
[On]:	Enables the ID remote control function. Effective on switching to [On].

Note

- To use the ID remote control function, setting ID numbers both for the remote control and for the display unit is required.
- For ID number setting for the remote control and display unit, see page 73 and [Display ID] respectively.

Serial ID function

Set to control external control with the PC connected to SERIAL terminal according to the Display's ID number (Panel ID).

[Off]: Disables external control by the ID.

[On]: Enables the external control by the ID.

LAN control protocol

Select the LAN control protocol.

[Protocol 1]: Control with the Panasonic Display sequence.

[Protocol 2]: Control with the sequence that compatible with Panasonic Projector.

Note

- For PJLink and WEB browser control, the operation is possible regardless of the setting.
- When performing the command control with TCP/IP, select [Protocol 1].
- When operating the Early warning software or Multi Monitoring & Control Software, select [Protocol 2].

Information timing

Set up the informing manner for no signal.

During RS-232C controls:

Warning or error message sent on the display automatically.

During LAN controls:

Acquire the warning or error message from the display.

1 Select the item with ▲▼.

Select the set point with ◀▶.

Information timing	
No signal warning	On
No signal warning timing	5min
No signal error	On
No signal error timing	10min

[No signal warning]

When set to [On], the display sends out the no signal warning.

[No signal warning timing]

Set up the detecting time for no signal warning.

(Range: 01 - 60, Interval: 1 minute)

[No signal error]

When set to [On], the display sends out the no signal error.

[No signal error timing]

Set up the detecting time for no signal error.

(Range: 01 - 90, Interval: 1 minute)

- The warning of [No signal warning] and the error of [No signal error] are not sent when the no signal state is detected through any of the following functions:

[No signal power off], [HDMI1 power management], [HDMI2 power management], [DVI-D power management], [PC power management] (see page 51)

- If there is no signal when [PC IN] is input, [PC power management] is activated first and the Display enters the standby mode.

Setting Example:

[No signal warning timing]: 5 minutes

[No signal error timing]: 10 minutes

[PC power management]: [On] (60 seconds)

Note

- The [No signal error timing] cannot be set shorter than [No signal warning timing].

Power on screen delay

You can set the power-on delay time of the displays to reduce the power load, when you press <Main Power On / Off switch> to turn on the multiple displays that are set together.

Set each display's setting individually.

[Off]: The display will be turned on at the same time as <Main Power On / Off switch> is pressed.

[Auto]: Sets the delay time automatically according to the number set for [Display ID].

The delay time is determined by multiplying [Display ID] x 0.3.seconds.

e.g. When [Display ID] is 3 → 0.9 seconds

[1 to 30]: Set the power-on delay time (second).

After pressing <Main Power On / Off switch>, the display will be powered on with time delay depending on this setting.

Note

- During this function is working, the power indicator is blinking green.
- This function also works when the power recovers from failure or after plugging off and in again the power cord.

Clock display

Sets to display / hide the clock.

[Off]: Hides the clock.

[On]: Displays the clock.

Note

- The clock is displayed at the lower left of the screen when <RECALL> button is pressed.
- When [Date and time] is not set, the clock is not displayed even when [Clock display] is [On]. (see page 54)

Power on message(No activity power off)

Sets to show/hide [No activity power off] precautions at the time the unit is turned on.

[On]: The warning precautions are shown at the time of power ON.

[Off]: The warning precautions are not shown at the time of power ON.

Note

- This setting is enabled only when [No activity power off] is [Enable] (see page 52).

Power on message(Power management)

Whether to show/hide an information message that tells the power has been turned off by Power Management when the power is set to [On].

[On]: The information is shown at the time of power [On].

[Off]: The information is not shown at the time of power [On].

Note

- This setting is enabled only when "Power management" function is [On] (see page 51).

POWER button lock

Sets the lock setting for the display Main Power On / Off switch.

[On]: Main Power On / Off switch operation is disabled.

[Off]: Main Power On / Off switch operation is enabled.

Note

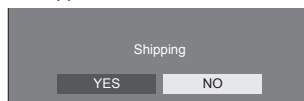
- This function is only for TH-43LFE8U, TH-48LFE8U, TH-55LFE8U and TH-65LFE8U.

Initialization

When both main unit buttons and remote control buttons are disabled due to the [Button lock], [Controller user level] and [Controller ID function] settings, set all the values [Off] so that all the buttons are enabled again.

Press <- (Unit)> together with <RETURN> and hold for more than 5 seconds.

[Shipping] is displayed and the lock is released when it disappears.



- Settings for [Button lock], [Controller user level] and [Controller ID function] will be back to [Off].

Using Network Function

This unit has a network function and you can control the Display connected to the network using your computer.

Necessary environment for computers to be connected

First of all, confirm your computer whether it has a wired LAN or a built-in wireless LAN.

Before connecting the Display to the computer, be sure to check the following settings.

Check 1: About LAN cable

- Is the cable connected properly?
- To connect a device using 100BASE-TX, use LAN cable that is compatible with category 5 or above.

Check 2: LAN settings

Computer with a built-in LAN function

- Is your LAN switched on?

Computer without a built-in LAN function

- Is your LAN adapter recognized properly?
- Is your LAN adapter switched on?
- Install the LAN adapter driver beforehand.

For details on how to install the driver, refer to the instructions accompanying the LAN adapter.

About Web Browser

Web Browser is necessary to use WEB control.

- Compatible OS:
Windows XP / Windows Vista / Windows 7 / Windows 8,
Mac OS X v10.4 / v10.5 / v10.6, OS X v10.7 / v10.8
- Compatible Web Browser:
Internet Explorer 7.0 / 8.0 / 9.0 / 10.0,
Safari 4.x / 5.x / 6.x (Mac OS)

Example of network connection

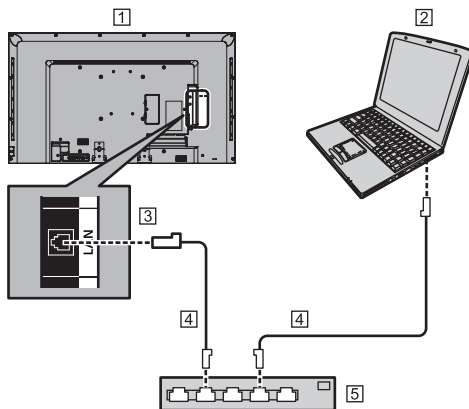
Note

- To use the network function, set each item in [Network settings] and make sure to set [Network control] to [On].

(see page 55)

When it is set to [On], power indicator lights orange under the condition of power "Off" with remote control (stand-by state).

LAN Terminal connection



- ① Back of the Display
- ② COMPUTER
- ③ LAN Terminal
- ④ LAN cable (not supplied)
- ⑤ Hub or broadband router

Note

- For LAN cable, use shielded cable, otherwise picture noise may be caused.
- Make sure the broadband router or hub supports 10BASE-T/100BASE-TX.
- Touching the LAN Terminal with a statically charged hand (body) may cause damage to the device due to its discharge.
Do not touch the LAN Terminal or the metal part of the LAN cable.
- For instructions on connection, consult your network administrator.

Command control

Network function of the unit can control the unit in the same way as serial control from a network.

Supported commands

Commands used in the serial control are supported.
(see page 20)

Note

- If you would like more detail, please contact the dealer.

PJLink protocol

The unit's Network function is compatible with PJLink Class 1. The following operations can be performed from a computer when PJLink protocol is used.

- Setting the Display
- Querying the Display status

Supported commands

The commands to control the unit with PJLink protocol are as follows.

Command	Control
POWER	Power control 0: Standby 1: Power On
POWER?	Power status query 0: Standby 1: Power On
INPT	Input switch 11: PC IN input (PC) 21: VIDEO input (VIDEO) 31: HDMI 1 input (HDMI1) 32: HDMI 2 input (HDMI2) 33: DVI-D IN input (DVI-D) 41: USB input (USB)
INPT?	Input switch query 11: PC IN input (PC) 21: VIDEO input (VIDEO) 31: HDMI 1 input (HDMI1) 32: HDMI 2 input (HDMI2) 33: DVI-D IN input (DVI-D) 41: USB input (USB)

Command	Control
AVMT	Shutter control 10: Picture On (picture mute deactivated) 11: Picture Off (picture on mute) 20: Audio On (audio mute deactivated) 21: Audio Off (audio on mute) 30: Shutter mode Off (picture and audio mute deactivated) 31: Shutter mode On (picture and audio on mute)
AVMT?	Shutter control query 11: Picture Off (picture on mute) 21: Audio Off (audio on mute) 30: Shutter mode Off (picture and audio mute deactivated) 31: Shutter mode On (picture and audio on mute)
ERST?	Error status query First byte: 0 Second byte: 0 Third byte: 0 Fourth byte: 0 Fifth byte: 0 Sixth byte: Other error. 0 or 2. <ul style="list-style-type: none"> • Meaning of 0, 2. 0: Error is not detected, 2: Error
LAMP?	Lamp status query Not supported
INST?	Input switch list query 11: PC IN input (PC) 21: VIDEO input (VIDEO) 31: HDMI 1 input (HDMI1) 32: HDMI 2 input (HDMI2) 33: DVI-D IN input (DVI-D) 41: USB input (USB)
NAME?	Display name query The name selected in [Display name] is returned.
INF1?	Manufacturer name query Returns "Panasonic".
INF2?	Model name query Returns "48LFE8U". (Example: 48-inch U model) Returns "48LFE8E". (Example: 48-inch E model)

Command	Control
INFO?	Other information query Returns version number.
CLSS?	Class information query Returns "1".

PJLink security authentication

When using PJLink with security authorization, either of the password set for administrator privileges and the password set for user privileges with Web browser control can be used as the password for PJLink. (see page 67)

When using PJLink without security authorization, set use without the password for administrator privileges and the password for user privileges of Web browser control.

- Concerning the specification of PJLink, see the web site of Japan Business Machine and Information System Industries Association (JBMA) below:
<http://pjlink.jbmia.or.jp/english/index.html>

Early Warning Software

This unit supports "Early Warning Software" which monitors the statuses of devices (projectors or flat-panel displays) connected to an intranet, reports failures of devices and gives advance warning by detecting a predicted abnormality.

The maximum number of devices that can be registered to monitor differs according to the type of license. Up to 2048 devices can be registered and used for free for a maximum of 90 days after the installation to PC has completed.

- For more details, visit the following web site.
<http://panasonic.net/prodisplays/products/et-swa100/index.html>

Multi Monitoring & Control Software

This unit supports "Multi Monitoring & Control Software" which monitors and controls devices (projectors or flat-panel displays) connected to an intranet.

For details, see the following website.

<http://panasonic.net/prodisplays/download/software/index.html>

Connecting with LAN

Note

- To use the network function, set each item in [Network settings] and be sure to [Network control] to [On]. (see page 55)

Computer operation

- Turn on the computer.
- Make the network setting according to your system administrator.

When the Display settings are the default settings (see page 55), the computer can be used with the following network settings.

IP address	192.168.0.9
Subnet mask	255.255.255.0
Gateway	192.168.0.1

Using Web Browser Control

You can use a Web browser to control the unit and set up a network and password.

Before Using Web Browser Control

To use the Web browser control, the unit and computer set ups are required.

■ About Web Browser

Set each item in [Network settings] and be sure to set [Network control] to [On]. (see page 55)

■ Computer Setup

Disable the proxy server settings and enable JavaScript.

- The setting procedure differs depending on the software version.

Please refer to description in HELP, etc. of the software.

(Windows)

Windows 7 is used as an example.

Disable proxy server settings

- 1 Display [Internet Properties] window.
Click [Start] - [Control Panel] - [Network and Internet] - [Internet Options].
 - If the on screen display looks different, please set [View by:] to [Category].
- 2 Click the [Connections] tab and then [LAN Settings].
- 3 Deselect the [Use automatic configuration script] and [Use a proxy server for your LAN] boxes.
- 4 Click [OK].

Enable JavaScript

- 1 Display [Internet Properties] window.
Click [Start] - [Control Panel] - [Network and Internet] - [Internet Options].
 - If the on screen display looks different, please set [View by:] to [Category].
- 2 Set the security level on the [Security] tab to [Default Level]. Alternatively enable [Active scripting] from the [Custom Level] button.

(Macintosh)

Disable proxy server settings

- 1 From the [Safari] menu, click [Preferences].
General screen is displayed.
- 2 From the [Advanced] tab, click the [Change Settings...] button next to [Proxies].
Click [Proxies] and set up a proxy server.
- 3 Deselect the [Web Proxy] and [Automatic Proxy Configuration] boxes.
- 4 Click [Apply Now].

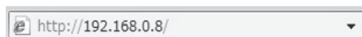
Enable JavaScript

- 1 Display [Security] of Safari.
- 2 Select [Enable JavaScript] under [Web content].

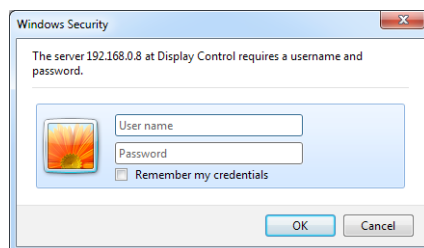
Access from Web Browser

Access to the TOP screen of the Web browser control using a Web browser.

- 1 **Start your Web browser.**
- 2 **Enter the IP address set with the [LAN setup] of the unit.**
(see page 55)



- 3 **Enter the user name and password when the Authentication screen is displayed.**



- 4 **Click [OK].**

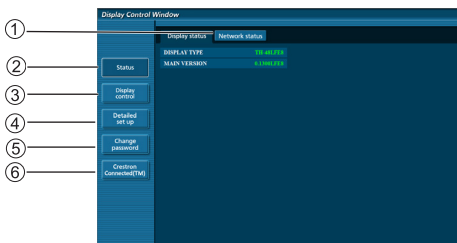
After logged in, the TOP screen of the Web Browser Control is displayed. (see page 68)

Note

- The password used here is the same password used for command control and the PJLink security authentication.
- Default user name and password are as follows:
User name: user1 (User rights), admin1 (administrator rights)
Password: panasonic
Change password first.
- The password can be changed on the Password Setup screen after logging in (see page 69). Log in with administrator privileges to change this.
- When using "Crestron Connected™" (see page 71), log in with the administrator rights.
- Under no circumstances, Panasonic Corporation or its associated companies will ask customers their password directly.
Even if you are asked directly, please do not reveal your password.

Operating with Web Browser

■ Description of each item



① Page tab

Click these to switch pages.

② [Status]

Click this item, and the status of the Display is displayed.

③ [Display control]

Click this item to display the Display control page.

④ [Detailed set up]

Click this item to display the advanced settings page.

⑤ [Change password]

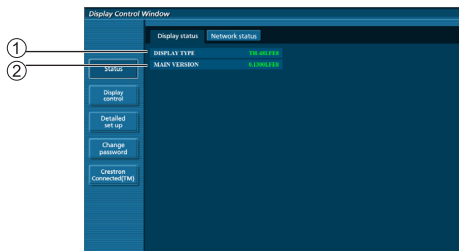
⑥ Crestron Connected™

Click this item to display the Crestron Connected™ operation page.

Display status page

Click [Status], then [Display status] to display the Status information page.

This page displays the Display statuses established for the items shown below.



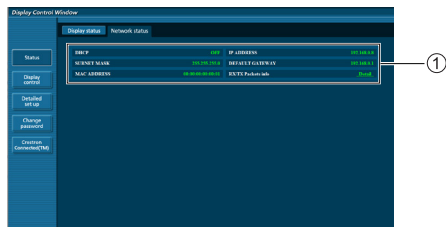
① Displays the type of Display.

② Displays the firmware version of the Display main unit.

Network status page

Click [Status], then [Network status] to display the Status information page.

Displays the current configuration information of the network.



① Displays the configuration details of wired LAN.

Basic control page

To move from another page, click [Display control], then [Basic control].



① Power On/Off control

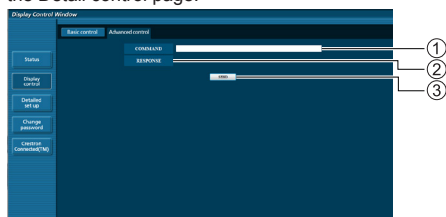
② Use these to select the input signals

③ AUDIO mute

④ Switches aspect mode

Detail control page

Click [Display control], then [Advanced control] to display the Detail control page.



① Enter a command. Use the same command used for the serial control.

② Response from the unit is displayed.

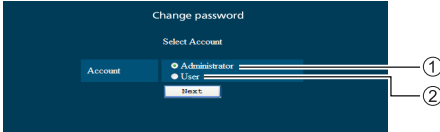
③ Command is sent and run.

Note

- After the settings are changed, it may take a while till the display status is displayed.

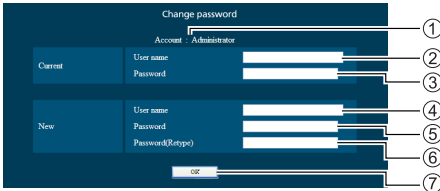
Change Password page

Click [Change password].



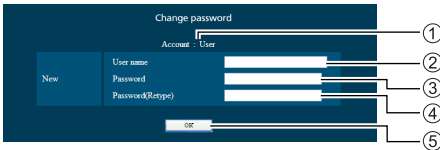
- ① Administrator
- ② User

Administrator mode



- ① Account
- ② Current user name input field
- ③ Current password input field
- ④ New user name input field
- ⑤ New password input field
- ⑥ New password input field (re-enter for confirmation)
- ⑦ Button for executing password change

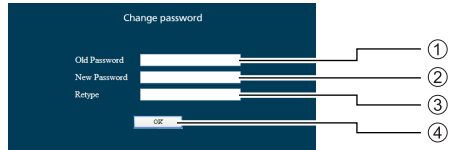
User account



- ① Account
- ② New user name input field
- ③ New password input field
- ④ New password input field (re-enter for confirmation)
- ⑤ Button for executing password change

User mode

A user can change password only.



- ① Current password input field
- ② New password input field
- ③ New password input field (re-enter for confirmation)
- ④ Button for executing password change

Note

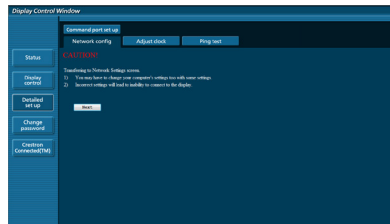
- Up to 16 alphanumeric characters can be used for a password.
- When changing the administrator account, both “Current user name” and “Current password” are required.

Network config page

When connecting by logging in with administrator privileges, you can make detailed settings for network related to display.

LAN settings

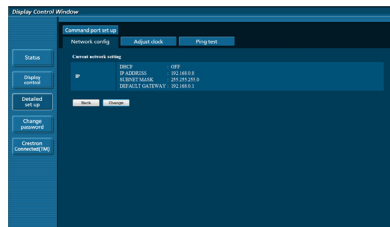
1 Click [Detailed set up] in the menu.



2 Click [Next].

The settings window appears, showing the current settings.

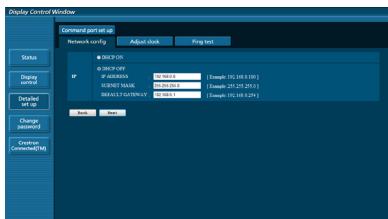
- To change the LAN settings, click [Change].
- To return to the previous window, click [Back].



3 Complete the detailed settings and click [Next].

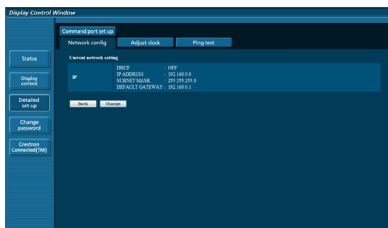
Setting contents here are the same as the address information contents set for the [LAN setup] menu of the Display.

After all required items have been entered, click [Next]. Then, a confirmation window appears.



4 Click [Submit].

The settings will be registered.

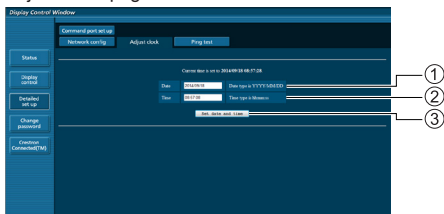


Note

- Changing the setting of LAN while connected with LAN might disconnect the connection.

Adjust clock page

Click [Detailed set up], then [Adjust clock] to display the Adjust clock page.



- ① New date field
- ② New time field
- ③ Button to update time and date settings

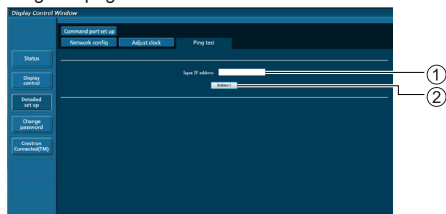
Note

- Date and time is displayed as [- -] when they are not set.
- When [Network control] is set to [On] and it is in standby mode, date and time display will be blank and they cannot be set.
- If the time becomes incorrect immediately after setting the correct time, contact the dealer where you bought the Display.

Ping test page

This page makes it possible to check whether the network is connected to the DNS server, etc.

Click [Detailed set up], then [Ping test] to display the Ping test page.



- ① Enter the IP address of the server to be tested.
- ② Button for conducting the test.

Display which appears when the connection was successful.

```
PING 192.168.0.10 (192.168.0.10): 56 data bytes
64 bytes from 192.168.0.10: seq=0 ttl=128 time=2.271 ms
64 bytes from 192.168.0.10: seq=1 ttl=128 time=2.078 ms
64 bytes from 192.168.0.10: seq=2 ttl=128 time=2.019 ms
64 bytes from 192.168.0.10: seq=3 ttl=128 time=1.845 ms

--- 192.168.0.10 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 1.845/2.052/2.271 ms
```

Display which appears when the connection failed.

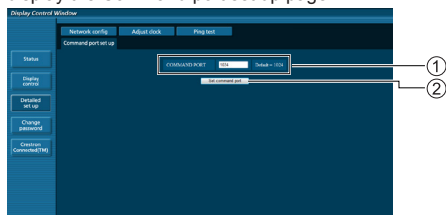
```
PING 192.168.0.15 (192.168.0.15): 56 data bytes

--- 192.168.0.15 ping statistics ---
4 packets transmitted, 0 packets received, 100% packet loss
```

Command port set up page

Set the port number to be used with command control.

Click [Detailed set up], then [Command port set up] to display the Command port set up page.



- ① Input the port number to be used with command control.
- ② Setting update button.

Using Web Browser Control

Crestron Connected™

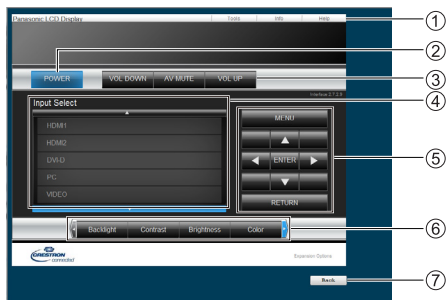
You can monitor or control the Display using Crestron Connected™.

When you click [Crestron Connected™], the Crestron Connected™ operation page is displayed.

If Adobe Flash Player is not installed in your computer, or if the browser does not support Flash, this page does not

appear. In this case, return to the previous page by clicking [Back] in the operation page.

- Operation page



① [Tools] [Info] [Help]

Switches the pages for tools, information, help using the tab.

② [POWER]

Switches between on and off of the power.

③ [VOL DOWN] [AV MUTE] [VOL UP]

Sets the volume, AV mute. When the power of the Display is turned off, VOL DOWN, AV MUTE and VOL UP are not available.

④ [Input Select]

Sets the input selection. When the power of the Display is turned off, this operation is not available.

⑤ Operation buttons on the menu screen

Operates on the menu screen.

⑥ Image quality adjustments

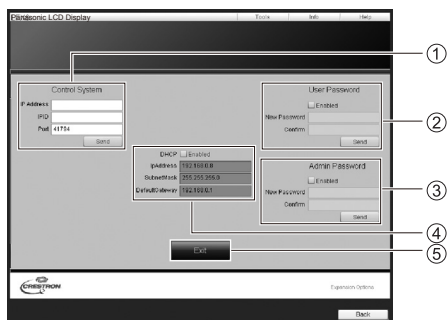
Operate items related to image quality.

⑦ [Back]

Returns to the previous page.

- [Tools] page

Click [Tools] on the operation page.



- 1 [Control System]

Sets the information required for the communication with the controller that is connected to the Display.

- 2 [User Password]

Sets the password for the user rights in the operation page of Crestron Connected™.

- 3 [Admin Password]

Sets the password for the administrator rights in the operation page of Crestron Connected™.

- 4 [Network Status]

Displays the setting of LAN.

[DHCP]

[IpAddress]

[SubnetMask]

[DefaultGateway]

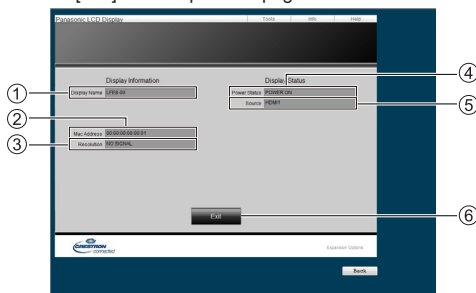
Displays the value in the current setting.

- 5 [Exit]

Return to the operation page.

Note

- When you monitor or control the Display using Crestron Connected™, set [Crestron Connected™] to [On] in the [Network Settings] menu.
- [Info] page
Click [Info] on the operation page.



- 1 [Display Name]

Displays the name of the Display.

- 2 [Mac Address]

Displays the MAC address.

- 3 [Resolution]

Displays the resolution of the Display.

- 4 [Power Status]

Displays the status of the power.

- 5 [Source]

Displays the selected video input.

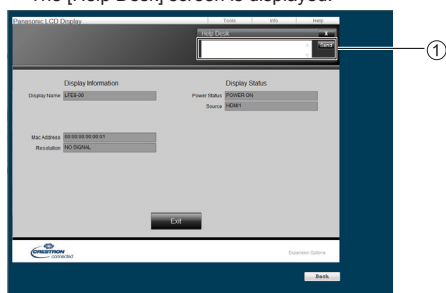
- 6 [Exit]

Returns to the operation page.

- [Help] page

Click [Help] on the operation page.

The [Help Desk] screen is displayed.



- 1 [Help Desk]

Sends or receive messages to the administrator who uses Crestron Connected™.

ID Remote Control Function

You can set the remote control ID when you want to use this remote control on one of several different displays. In that case, you need to set the remote control's ID number to match the Display's ID number you have set in [Display ID] following the steps below.

Note

- To operate this function, please purchase ID remote controller sold separately.

Object model :
N2QAYA000093



Setting the remote control's ID number

1 Set [Controller ID function] to [On].

(see page 61)

- While displaying [Options] menu, you can operate even if the ID does not match.

2 Set the remote control's <ID MODE> switch to <ON>.

3 Pointing the remote control at the Display you want to control, press <ID SET>.

ID set	
Display ID	0
Controller ID	?

4 Press one of <0> - <9>.

Sets the tens digit.

5 Press one of <0> - <9>.

Sets the units digit.

- The steps from 3 to 5 need to be done within 5 seconds.
- Adjustable ID number range is 0 - 100.

Example:

- To set the ID to "1": After step 3, press <0> and then <1>.
- To set the ID to "12": After step 3, press <1> and then <2>.
- To set the ID to "100": After step 3, press <1> <0> <0>.

Cancelling the setting of remote control's ID number

You can operate even if the ID does not match the ID set in [Display ID].

Press <ID SET> for more then 3 seconds.

This has the same effect as pressing <ID SET> <0> <0>.

Note

- The ID remote control cannot be used when [Display ID] is set to anything other than "0", and the remote control ID is not the same as the [Display ID] number. (see page 61)

Entering characters

Some settings require to enter characters.

To enter text, select characters in the on-screen keyboard.

Example: Entering profile names ([Memory save])



The default profile name is [MEMORY1], here, we are changing it to [MY PICTURE] as an example.

1 Select [All delete] with ▲▼◀▶, and press <ENTER>.

MEMORY1

All text is deleted.

To delete individual characters, select [Delete].

2 Select [a / A / @] with ▲▼◀▶ and press <ENTER>.



Switches the keyboard to the upper case alphabet.

Each time <ENTER> is pressed, the keyboard is switched in the order of lower case, upper case and symbols.

3 Select [M] with ▲▼◀▶, and press <ENTER>.

M

Repeat this process to enter the next character.

4 Select Space key with ▲▼◀▶, and press <ENTER>.



Space key

As shown in step 3, select the characters to enter [PICTURE].

5 When you finished entering the profile name, select [Ok] with ▲▼◀▶ and press <ENTER>.



- To cancel saving the profile, select [Cancel].

Preset Signals

This unit can display the video signals shown in the table below.

■ Video signal

Corresponding signal	Resolution (Dot)	Scanning frequency		Dot clock frequency (MHz)	Format *3
		Horizontal (kHz)	Vertical (Hz)		
NTSC/NTSC4.43/ PAL-M/PAL60	720 × 480i	15.7	59.9	-	V
PAL/PAL-N/SECAM	720 × 576i	15.6	50.0	-	V
525i(480i)	720 × 480i	15.7	59.9	13.5	R/Y
625i(576i)	720 × 576i	15.6	50.0	13.5	R/Y
525i(480i)	720(1440) × 480i*2	15.7	59.9	27.0	D/H
625i(576i)	720(1440) × 576i*2	15.6	50.0	27.0	D/H
525p(480p)	720 × 480	31.5	59.9	27.0	R/Y/D/H
625p(576p)	720 × 576	31.3	50.0	27.0	R/Y/D/H
750(720)/60p	1 280 × 720	45.0	60.0	74.3	R/Y/D/H
750(720)/50p	1 280 × 720	37.5	50.0	74.3	R/Y/D/H
1 125(1 080)/60i*1	1 920 × 1 080i	33.8	60.0	74.3	R/Y/D/H
1 125(1 080)/50i	1 920 × 1 080i	28.1	50.0	74.3	R/Y/D/H
1 125(1 080)/24p	1 920 × 1 080	27.0	24.0	74.3	R/Y/D/H
1 125(1 080)/24PsF	1 920 × 1 080i	27.0	48.0	74.3	R/Y
1 125(1 080)/25p	1 920 × 1 080	28.1	25.0	74.3	R/Y/D/H
1 125(1 080)/30p	1 920 × 1 080	33.8	30.0	74.3	R/Y/D/H
1 125(1 080)/60p	1 920 × 1 080	67.5	60.0	148.5	R/Y/D/H
1 125(1 080)/50p	1 920 × 1 080	56.3	50.0	148.5	R/Y/D/H

■ PC signal

Corresponding signal	Resolution (Dot)	Scanning frequency		Dot clock frequency (MHz)	Format *3
		Horizontal (kHz)	Vertical (Hz)		
VESA400	640 × 400	31.5	70.1	25.2	R/Y/D/H
		37.9	85.1	31.5	R/Y/D/H
VGA	640 × 480	31.5	59.9	25.2	R/Y/D/H
		35.0	66.7	30.2	R/Y/D/H
		37.9	72.8	31.5	R/Y/D/H
		37.5	75.0	31.5	R/Y/D/H
		43.3	85.0	36.0	R/Y/D/H
SVGA	800 × 600	35.2	56.3	36.0	R/Y/D/H
		37.9	60.3	40.0	R/Y/D/H
		48.1	72.2	50.0	R/Y/D/H
		46.9	75.0	49.5	R/Y/D/H
		53.7	85.1	56.3	R/Y/D/H
MAC16	832 × 624	49.7	74.6	57.3	R/Y/D/H
852 × 480	852 × 480	31.5	59.9	34.2	D/H
XGA	1 024 × 768	39.6	50.0	51.9	D/H
		48.4	60.0	65.0	R/Y/D/H
		56.5	70.1	75.0	R/Y/D/H
		60.0	75.0	78.8	R/Y/D/H
		65.5	81.6	86.0	R/Y/D/H
		68.7	85.0	94.5	R/Y/D/H
WSVGA	1 066 × 600	37.6	59.9	53.0	D/H
MXGA	1 152 × 864	53.7	60.0	81.6	R/Y/D/H
		64.0	70.0	94.2	R/Y/D/H
		67.5	74.9	108.0	R/Y/D/H
		77.1	85.0	119.7	R/Y/D/H
MAC21	1 152 × 870	68.7	75.1	100.0	R/Y/D/H
1 280 × 720	1 280 × 720	44.8	59.9	74.5	R/Y/D/H
1 280 × 768	1 280 × 768	39.6	49.9	65.3	R/Y/D/H
		47.7	60.0	80.1	R/Y/D/H
		47.8	59.9	79.5	R/Y/D/H

1 280 × 800	1 280 × 800	41.3	50.0	68.0	R/Y/D/H
		49.3	59.9	71.0	R/Y/D/H
		49.7	59.8	83.5	R/Y/D/H
MSXGA	1 280 × 960	60.0	60.0	108.0	R/Y/D/H
		85.9	85.0	148.5	R/Y
		64.0	60.0	108.0	R/Y/D/H
SXGA	1 280 × 1 024	80.0	75.0	135.0	R/Y/D/H
		91.1	85.0	157.5	R/Y/D/H
		47.7	60.0	85.5	D/H
1 360 × 768	1 360 × 768	47.7	60.0	84.7	D/H
		47.7	59.8	84.8	D/H
		39.6	50.0	69.9	D/H
1 366 × 768	1 366 × 768	48.4	60.0	86.7	R/Y/D/H
		48.0	60.0	72.0	R/Y/D/H
		39.6	49.9	69.0	R/Y/D/H
		47.7	59.8	85.5	R/Y/D/H
SXGA+	1 400 × 1 050	65.2	60.0	122.6	D/H
		82.2	75.0	155.9	R/Y/D/H
WXGA+	1 440 × 900	55.5	59.9	88.8	R/Y/D/H
		55.9	59.9	106.5	R/Y/D/H
1 600 × 900	1 600 × 900	46.3	50.0	97.0	D/H
		60.0	60.0	108.0	D/H
		55.9	60.0	118.3	D/H
		56.0	60.0	119.0	D/H
WSXGA+	1 680 × 1 050	65.3	60.0	146.3	R/Y/D/H
UXGA	1 600 × 1 200 ^{*4}	75.0	60.0	162.0	R/Y/D/H
1 920 × 1 080	1 920 × 1 080 ^{*5}	66.6	59.9	138.5	R/Y/D/H
	1 920 × 1 080	67.5	60.0	148.5	R/Y/D/H
WUXGA	1 920 × 1 200 ^{*4}	74.0	60.0	154.0	R/Y/D/H

*1: When 1 125(1 035)/60i signal is input, it is displayed as 1 125(1 080)/60i signal.

*2: Pixel-Repetition signal (dot clock frequency 27.0MHz) only

*3: Signals to represent formats are as follows.

V : Video
R : D-sub RGB
Y : YCbCr/YPbPr
D : DVI-D
H : HDMI

The analogue input supports onG and onY.

*4: Displayed with image elements thinned out in the image processing circuit.

*5: Based on VESA CVT-RB (Reduced Blanking) standard

Note

- An auto detected signal format may be differently displayed from the actual input signal.
- [i] shown after the number of dots of resolution means the interlace signal.
- When 1125(1080)/30PsF signal and 1125(1080)/25PsF signal are input, they are processed as 1125(1080)/60i signal and 1125(1080)/50i signal, and then displayed.

Shipping condition

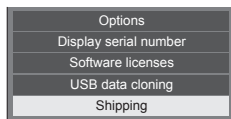
You can reset the settings / the adjusted values of the following menus to the factory settings:

[Picture], [Sound], [Setup], [Position], [Options]

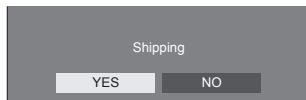
■ Remote control

- 1 Press <SETUP> to display the [Setup] menu.
- 2 Select [OSD language] with ▲ ▼ and press <ENTER> for more than 3 seconds.

The following screen will be displayed.



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



- 4 Select [YES] with ◀ ▶ and press <ENTER>.

The message [Shipping (wait a moment)] will be displayed.

- 5 After the message [Please turn off the power] is displayed, turn the power off pressing <Main Power On / Off switch>.

- For TH-43LFE8U, TH-48LFE8U, TH-55LFE8U and TH-65LFE8U

If the Main Power On / Off switch is locked, please disconnect the AC cord plug from the wall outlet.

■ Unit

- 1 Press <MENU (Unit)> for several times and display the [Setup] menu.
- 2 Select [OSD language] with ▲ ▼, and then press and hold <ENTER (Unit)> for more than 5 seconds.
- 3 Select [YES] with <- (Unit)> or <+ (Unit)> and press <ENTER (Unit)>.

The message [Shipping (wait a moment)] will be displayed.

- 4 After the message [Please turn off the power] is displayed, turn the power off pressing <Main Power On / Off switch>.

- For TH-43LFE8U, TH-48LFE8U, TH-55LFE8U and TH-65LFE8U

If the Main Power On / Off switch is locked, please disconnect the AC cord plug from the wall outlet.

Data Cloning

Menu settings and adjusted values set on a single display can be copied to multiple displays using a USB memory.

■ Data that can be copied

Settings and set values of [Picture], [Sound], [Setup], [Position] and [Options] menus

- The following data cannot be copied. Setting is required for each display.
Date and time
Setting for [Network settings] - [LAN setup]
Display ID in [Options] - [Display ID]

■ Supported device

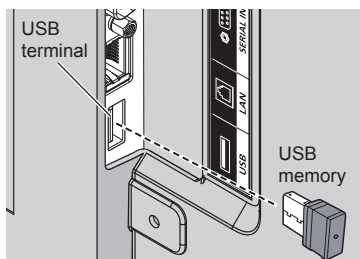
- Commercially available USB memory devices are supported. (Those with security functions are not supported.)
- USB memory devices other than those formatted in FAT16 or FAT32 cannot be used.
- Up to 32 GB of USB memory in size are supported.
- Only single partition configuration is supported.

Note

- If the inch size for display differs, the cloning function does not operate. Use the common inch size.
- The remote control is used to display [USB data cloning] menu. Unit buttons cannot be used to display the menu.
- Set the input to something other than [USB], and perform the data cloning.

Copying the display data to the USB memory

1 Insert the USB memory device to the USB terminal on the side edge of the display.



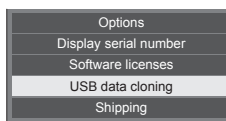
Note

- Depending on the type of a USB memory device, it may come in contact with the periphery such as a back cover, and cannot be attached. Use a commercially sold extension cable, or use a small type of a USB memory device connectable to this unit.
- If the USB memory containing the data for cloning is connected in power-on state, the [Select Copy Type] message in step 5 is displayed. Select [Display → USB Memory]. Also, if the data copy is performed, the saved data is overwritten.
- Failure to save in or read from the USB memory displays an error message.

2 Display [Setup] menu pressing <SETUP>.

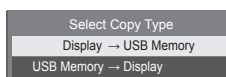
3 Select [OSD Language] with ▲▼ and press <ENTER> for over 3 seconds.

The following display appears.



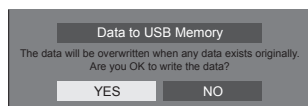
4 Select [USB data cloning] with ▲▼ and press <ENTER>.

5 Select [Display → USB Memory] with ▲▼ and press <ENTER>.

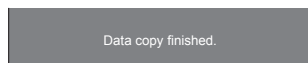


- 6** Select [YES] with ◀▶ and press <ENTER>.

Data copy to the USB memory starts.



The following message is displayed after data copy has finished.



- 7** After data copy has finished, remove the USB memory device from the USB terminal.

Copying the USB memory data to the display

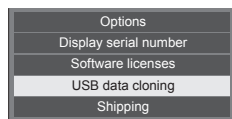
- 1** Insert the USB memory device, which the data has been copied, to the USB terminal of the display for data copy (same as the step 1 on page 78).

Note

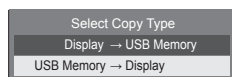
- If the USB memory containing the data for cloning is connected in power-on state, the [Select Copy Type] message in step 5 is displayed. Select [USB Memory → Display].

- 2** Display [Setup] menu pressing <SETUP>.
- 3** Select [OSD Language] with ▲▼ and press <ENTER> for over 3 seconds.

The following display appears.

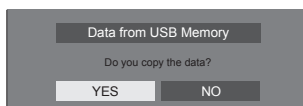


- 4** Select [USB data cloning] with ▲▼ and press <ENTER>.
- 5** Select [USB Memory → Display] with ▲▼ and press <ENTER>.

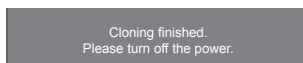


- 6** Select [YES] with ◀▶ and press <ENTER>.

Data copy to the display starts.



The following message is displayed after data copy has finished.













- 7** After data copy has finished, remove the USB memory device from the USB terminal.

- 8** Press the power switch (⏻ / ⏻) of the display unit to turn the power OFF, and turn the power ON again.

The copied content is applied to the display.


Troubleshooting

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

Symptoms		Check
Picture	Sound	
 Interference	 Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light
 Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the remote control.)
 No Picture	 No Sound	Not plugged into AC outlet Not switched on Picture and Brightness/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
 No Picture	 Normal Sound	If a signal with a non-applicable colour system format, or frequency is input, only the input terminal indication is displayed.
 No Colour	 Normal Sound	Colour controls set at minimum level (see page 41, 42)
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 any obstacle is present between the remote control sensor and the remote control. If the installation condition is normal, pull out the remote control sensor from the edge side of the main unit when using. 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.) Check whether the option other than [Off] is selected in [Controller user level] in the [Options] menu. (see page 61) Check whether [Controller ID function] in [Options] menu is set to [On]. (see page 61) Check whether <ID MODE> switch is set to <ON> (When using ID remote controller).(see page 73)
[Controller ID function] function cannot be used. (When using ID remote controller)		Check whether [Controller ID function] is set to [On], or <ID MODE> switch is set to <ON>. (see page 61, 73) (When [Controller ID function] is set to [On], you need to set <ID MODE> switch to <ON> and set the ID number.)
The top or bottom of the picture on the screen is cut off.		Adjust the position of the picture on the screen. (see page 38, 39)
There are areas at the top and bottom of the screen where picture is not displayed.		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. (see page 29)

Symptoms	Check
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 [No signal power off], [HDMI1 power management], [HDMI2 power management], [DVI-D power management], [PC power management] and [No activity power off]. Any of them may be set to [On (Enable)]. (see page 51, 52)
There is no picture displayed or sound output sometimes.	When HDMI or DVI signals are input to the Display using a selector or distributor, sound or images may not be output in the normal fashion depending on the selector or distributor used. The symptoms may be improved by turning the power off and on again, or by replacing the selector or distributor.
The RS-232C is uncontrollable	Check whether the connection has been made properly. (see page 19)
The LAN is uncontrollable	Check whether the connection has been made properly. (see page 64) When controlling with the Web Browser Control or the command control, check whether [Network control] is set to [On] (see page 55). When connecting to a device of AMX, set [AMX D.D.] according to the device to use. (see page 56) Check whether [LAN setup] is set correctly.
Power indicator is blinking in red.	There is possibility of malfunction. Please contact an Authorized Service Centre.
This LCD Display uses special image processing. Hence a slight time lag may occur between image and audio, depending on the type of input signal. However, this is not a malfunction.	

LCD Display panel

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

Specifications

Model No.

43-inch model : TH-43LFE8U
48-inch model : TH-48LFE8U
55-inch model : TH-55LFE8U
65-inch model : TH-65LFE8U
43-inch model : TH-43LFE8E
48-inch model : TH-48LFE8E
55-inch model : TH-55LFE8E
65-inch model : TH-65LFE8E

Power Consumption

TH-43LFE8U: 135 W
TH-48LFE8U: 150 W
TH-55LFE8U: 170 W
TH-65LFE8U: 160 W
TH-43LFE8E: 135 W
TH-48LFE8E: 150 W
TH-55LFE8E: 170 W
TH-65LFE8E: 160 W

Power off condition

0.3 W

Stand-by condition

0.5 W

LCD Display panel

43-inch model
43-inch VA panel (LED backlight), 16:9 aspect ratio
48-inch model
48-inch VA panel (LED backlight), 16:9 aspect ratio
55-inch model
55-inch IPS panel (LED backlight), 16:9 aspect ratio
65-inch model
65-inch VA panel (LED backlight), 16:9 aspect ratio

Screen size

43-inch model
940 mm (W) × 529 mm (H) × 1 079 mm (diagonal) /
37.0" (W) × 20.8" (H) × 42.5" (diagonal)
48-inch model
1 054 mm (W) × 592 mm (H) × 1 209 mm (diagonal) /
41.4" (W) × 23.3" (H) × 47.6" (diagonal)
55-inch model
1 209 mm (W) × 680 mm (H) × 1 387 mm (diagonal) /
47.6" (W) × 26.7" (H) × 54.6" (diagonal)

65-inch model
1 428 mm (W) × 803 mm (H) × 1 638 mm (diagonal) /
56.2" (W) × 31.6" (H) × 64.5" (diagonal)

(No. of pixels)

2 073 600 (1 920 (W) × 1 080 (H))

Dimensions (W × H × D)

43-inch model
969 mm × 560 mm × 61 mm /
38.2" × 22.1" × 2.4"
48-inch model
1 082 mm × 624 mm × 62 mm /
42.6" × 24.6" × 2.5"
55-inch model
1 239 mm × 712 mm × 62 mm /
48.8" × 28.0" × 2.5"
65-inch model
1 451 mm × 829 mm × 62 mm /
57.2" × 32.7" × 2.5"

Mass

43-inch model
approx. 8.7 kg / 19.2 lbs net
48-inch model
approx. 11.5 kg / 25.4 lbs net
55-inch model
approx. 16.0 kg / 35.3 lbs net
65-inch model
approx. 36.2 kg / 79.9 lbs net

Power source

TH-43/48/55/65LFE8U:
110 - 127 V ~ (110 - 127 V alternating current),
50/60 Hz
TH-43/48/55/65LFE8E:
220 - 240 V ~ (220 - 240 V alternating current),
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

PC IN

High-Density Mini D-sub 15 Pin:

Compatible with DDC2B

Y/G:

1.0 Vp-p (75 Ω) (with sync)

0.7 Vp-p (75 Ω) (without sync)

Pb/Cb/B:

0.7 Vp-p (75 Ω) (without sync)

Pr/Cr/R:

0.7 Vp-p (75 Ω) (without sync)

HD/VD:

1.0 - 5.0 Vp-p (high impedance)

VIDEO

Audio/Video 4-pole mini jack (M3) (see page 19)

Video: 1.0 Vp-p (75 Ω)

Audio: 0.5 Vrms

AUDIO IN

Stereo mini jack (M3) 0.5 Vrms

Shared with DVI-D IN and PC IN

AUDIO OUT

Stereo mini jack (M3) 0.5 Vrms

Output: Variable (-∞ to 0 dB)
(1 kHz 0 dB input, 10 kΩ load)

SERIAL IN

External Control Terminal

D-sub 9 Pin:

RS-232C compatible

LAN

For RJ45 network connections,
compatible with PjLink

Communication method:

RJ45 10BASE-T/100BASE-TX

IR IN

Mini jack (M3)

IR OUT

Mini jack (M3)

USB

TYPE A USB connector

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

Sound

Speakers

43/48/55-inch models:

80 mm × 30 mm × 2 pcs

65-inch model:

96 mm × 27 mm × 2 pcs

Audio Output

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

Remote Control Transmitter

Power source

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

Operating range

Approx. 7 m (22.9 ft)

(when operated directly in front of receptor)

Mass

Approx. 63 g / 2.22 ozs (including batteries)

Dimensions (W × H × D)

44 mm × 106 mm × 20.5 mm /

1.74" × 4.18" × 0.81"

*1: Environmental temperature to use this unit at high altitudes (1 400m (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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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.



Cd

[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.

USA 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

For TH-43LFE8U, TH-48LFE8U, TH-55LFE8U and TH-65LFE8U

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For TH-43LFE8E, TH-48LFE8E, TH-55LFE8E and TH-65LFE8E

Panasonic Testing Centre

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English