

Panasonic®

Operating Instructions Basic Guide

FULL HD LCD Display

For business use

English

Model No **TH-55LFV9U** 55-inch model
TH-55LFV9W 55-inch model



Read before use

For more information about this product, please read the "Operating Instructions – Functional Manual".

To download the "Operating Instructions – Functional Manual", please visit the Panasonic website (<https://panasonic.net/cns/prodisplays/>).

- Please read these instructions before operating your Display and retain them for future reference.
- Pictures and images of screens in this manual are for illustration only and may be different from the actual physical device.

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HDMI™

DPQX1399ZA/X1



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

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



The label with lightning flash and arrow-head inside a triangle has been put there to warn the user that parts inside the product carry the risk of electric shock.



The label with exclamation point within a triangle is intended to inform the user that important operating and servicing instructions are in the documentation included with the unit.

WARNING:

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


Do not place containers with water, such as a flower vase, cups, cosmetics, above or near the unit, (including on shelves above.)

WARNING:

- 1) To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 2) Do not remove the grounding pin on the power plug. This equipment is provided with a three pin grounded power plug. This plug will only fit a matching grounded 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 grounded plug.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat source such as a radiator, hob, or stove, or any other heat source (including amplifiers).
- 9) Do not defeat the safety purpose of the polarised, or grounded plug. A polarised plug has two blades, one wider than the other. A grounding 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 to have a suitable outlet installed.
- 10) Protect the power cord from being trodden on, or kinked or pinched, especially in the vicinity of the plug, wall socket, and point where it exits the equipment.
- 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 unit. When a cart is used, use caution when moving the cart and unit to avoid injury that might result from it being tipped over. 
- 13) Unplug this unit during lightning storms or when it is to be out of use for a long time.
- 14) Refer all servicing to qualified service personnel. Servicing is required if the equipment has been damaged in any way, for instance if the power cord or plug has been damaged, liquid has been spilled or objects have fallen into the unit, or it has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To avoid electric shock, ensure the grounding pin on the AC 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 in the manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at their own expense.

FCC CAUTION:

To ensure continued compliance, follow the attached installation instructions and only use 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-55LFV9U

TH-55LFV9W

Responsible Party:

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, New Jersey

07102-5490

Contact Source:

Panasonic System Solutions Company of North America

1-877-655-2357

General Contact:

<http://shop.panasonic.com/support>

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 must be near the equipment and easily accessible.

Note:

Image retention may occur. If a still picture is displayed for an extended period, the image might remain on the screen. However, it will disappear after a normal moving picture has been displayed for a while.

Trademark Credits

- PJLink is a registered or pending trademark in Japan, the United States, and other countries and regions.
- HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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

Important Safety Notice

WARNING

- 1) Guard against damage which might result in fire or shock and make sure there is no dripping or splashing in the vicinity.

Do not place containers of water, such as a flower vase, cups, cosmetics, etc near or above the display. (including on shelves above, etc.)

No naked flames, such as lighted candles, should be placed on or near the Display.

- 2) No user serviceable parts inside. Refer servicing to qualified service personnel.
- 3) Do not remove the earth pin on the power plug. This apparatus is equipped with a three pin earthed power plug. This plug will only fit a matched earthed 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 earth pin.
- 4) To avoid electric shock, ensure the earth 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 interference.

Using this appliance near sources of strong electromagnetic field, or where electrical noise might overlap with the input signal, could cause the picture and sound to waver or cause interference and noise.

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

WARNING:

This equipment is compliant with Class A of EN55032/CISPR32. This equipment may cause radio interference in a residential environment.

IMPORTANT INFORMATION

If this display is not positioned in a sufficiently stable location, it may be likely to fall and present a potential hazard. Many injuries, particularly those to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer.
- Only using furniture that can safely support the display.
- Ensuring that the display does not overhang the edge of supporting furniture.
- By not placing the display in a high place, such as on top of a cupboard or bookcase, without anchoring both the furniture and the display to a suitable support.
- Not placing the display where a table cloth or mat is between it and the supporting furniture.
- By teaching children about the dangers of climbing on furniture to reach the display or its controls.

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. This plug is fitted with a 10 amp fuse. Should the fuse need to be replaced, make sure the new fuse has a 10 amp rating and is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark .

If the fuse cover on the plug is removable, make sure that it is replaced after the fuse has been changed.

If you lose the fuse cover, do not use the plug until a new cover has been obtained.

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

Do not cut the mains plug from the cable.

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

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

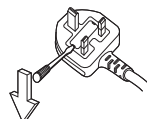
If the AC socket outlet in your home is not suitable, get it changed by a qualified electrician.

If the plug, or mains lead itself, 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

Optional accessory

Securely install the Installation Mount of the optional accessories. Ask an authorized dealer for installation. 2 or more people are required for installation.

- Installation Mount
TY-VK55LV2
- Early Warning License (Multi Monitoring & Control Software)
Basic license / 3 years license (ET-SWA100 series *1)
- Video Wall Manager
TY-VUK10 *2

*1: The part number suffix may differ depending on the license type.

*2: Supports Ver 1.11 or later

Small parts may be accidentally swallowed by small children and are a choking hazard. Keep small parts away from young children. Discard unneeded small parts and other objects. This includes plastic bags and sheets which present a suffocation hazard for small children.

Do not place the Display on a sloping or unstable surface and make sure the base does not overhang an edge.

- The Display may fall off or tip over.

Install this display in a location with minimal vibration and which can support its weight.

- If the unit falls it may cause injury and certainly may result in malfunction.

Do not place any objects on top of the Display.

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

Transport only in an upright position!

- Transporting the unit with its liquid crystal panel facing upwards or downwards may damage the internal circuitry.

Make sure the ventilation openings in the unit are not obstructed in any way, by curtains or other objects.

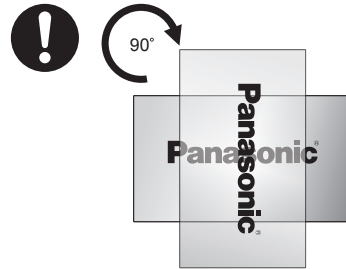
See page 7 for the requirements for sufficient ventilation.

Caution - For use only with UL Listed Wall Mount Bracket with minimum weight/load 27 kg (59.8 lbs).

When installing the Display vertically;

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

The rotation direction is displayed on the rating plate and back cover of this unit. Confirm it during installation.



Cautions for Wall Installation

- Installation should be carried out by a professional. Installing the Display incorrectly may lead to an accident that results in serious injury or even death.
- When installation is to be made on a wall, a wall hanging bracket that conforms to VESA standards must be used.
VESA 400 mm × 400 mm
- Before installation, make sure the mounting location has enough strength to support the weight of the LCD display and the wall hanging bracket.
- If you decide to no longer use the Display on the wall, engage a professional to remove it as soon as possible.
- When mounting the Display on a wall, make sure the mounting screws and power cable do not make contact with any metal objects inside the wall. An electric short circuit or shock might be the result of contact with metal in the wall.

Do not place the display where it may be affected by salt or corrosive gas.

- Doing so may cause the display to fail due to corrosion. Also, the unit may malfunction.

Do not install the Display where it is exposed to direct sunlight.

- If the unit is exposed to direct sunlight even indoors, the temperature rise of the liquid crystal panel may cause malfunction.

■ When using the LCD Display

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

Do not cover the ventilation holes.

- Doing so may cause the Display to overheat. This may damage the display or even cause it to catch fire.

Do not stick any foreign objects into the Display.

- Do not insert any metal or flammable objects into the

ventilation holes, or drop them on the Display. Doing so can cause fire or electric shock.

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

- High voltage, which can cause severe electric shock, is present inside the Display. Please contact your local Panasonic dealer if any adjustment or repair work is needed.

Ensure that the mains plug is always easily accessible.

The mains plug must be connected to a mains socket outlet with a protective earthed connection.

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

- Doing so may cause a short-circuit, generate heat, cause malfunction, electric shock, or even lead to fire.

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

- Doing so could cause electric shock or fire.

Insert the power supply plug firmly as far as it will go.

- If the plug is not fully inserted, heat may be generated which could cause fire. Do not use a power supply cable with a damaged plug or a loose wall socket.

Do not handle the power supply plug with wet hands.

- Doing so may cause electric shock.

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

- Do not damage the cable, modify it, or place heavy objects on it. Do not allow the cable to contact any hot object, do not twist or bend it excessively, or pull it too hard. To do so may cause fire and electric shock. Have a damaged cable repaired or replaced by your local Panasonic dealer.

Do not touch a damaged cable or plug with your bare hands.

- Electric shock could occur.

Do not remove covers and NEVER attempt to modify the Display yourself.

- Do not remove the rear cover as live parts will become directly accessible. There are no user serviceable parts inside. (High-voltage components may cause serious electric shock.)
- Have the Display checked, adjusted, or repaired at your local Panasonic dealer.

Keep the AAA/R03/UM4 batteries (supplied) out of reach of children. Batteries are extremely harmful if swallowed.

- Get medical help immediately if you suspect your child may have swallowed a battery.

If the Display is not going to be used for a long time, disconnect it from the mains.

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

Keep all open flames such as candles away from this product at all times.



⚠ CAUTION

In the event of problems or malfunction, stop using the display immediately.

■ In the event of problems disconnect the cable from the AC mains supply.

- Smoke or an abnormal odour emanates from the unit.
- Operation is intermittent, sometimes no picture appears or sound goes off.
- Liquid such as water or a foreign object has got inside the unit.
- The unit has failing or broken electronic components.

Continued use of the unit in this condition could result in fire or electric shock.

- Turn the power off immediately, unplug the power cable from the AC outlet, and contact the dealer for repairs.
- To cut off the power supply to the Display completely, you need to unplug the power cable from the AC outlet.
- Trying to make repairs to this unit yourself is dangerous, and must never be attempted.
- To disconnect the device from the mains power immediately unplug the power cable from the AC mains outlet socket. Always use a mains power outlet that can be easily reached.

■ Do not touch a damaged unit until it has been disconnected from the mains.

Electric shock could occur.

■ When using the LCD Display

Do not put your hands or face, or any object, near the ventilation holes on the Display.

- The air that comes out of the ventilation holes at the top of Display will be hot. Do not put your hands or face, or any object which cannot withstand heat, close to the ventilation holes, burns or damage could result.

At least two people are needed to carry or unpack this unit.

- If this unit is dropped it may cause injury or suffer damage.

Be sure to disconnect all cables before moving the Display.

- If the Display is moved while cables are still connected, they might be damaged, and fire or electric shock could result.

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

- Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it becoming dusty.

- If dust builds up on the power cord plug, humidity can damage the insulation, which could cause fire. Disconnect the power cable from the mains outlet and wipe the cable with a dry cloth.

Do not stand on, or hang from the display.

- Serious damage and injury might result. Pay special attention to children and keep them out of harm's way.

Be sure to insert batteries correctly (+ and -) make sure the polarity is not reversed.

- Mishandled batteries can leak, or even explode and cause fire. This can result in serious injury and damage to property.
- Insert batteries correctly as instructed. (see page 11)

Do not use batteries with a damaged or missing outer cover.

(The outer cover is attached to the battery for safety and must not be removed doing so may cause short circuits.)

- Mishandling the batteries can cause them to short circuit, resulting in fire, injury or damage to property.

Remove the batteries from the remote control transmitter if it is not to be used for a long time.

- A battery may leak, heat, ignite or burst, resulting in fire or damage.

Do not attempt to burn or break up batteries.

- Batteries must not be exposed to excessive heat such as direct sunlight, or radiators, stoves or other heat sources.

Do not turn the Display upside down.

Do not lay the display down with its liquid crystal panel facing upwards

Precautions for use

Unpacking

- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- This display is big and heavy and two people should be involved when it is moved or unpacked.
- After opening the carton, ensure that the contents are complete and in good condition.

Cautions when installing

Do not set up the Display outdoors.

- The Display is designed for indoor use only.

Install this unit in a location which can support its weight.

- Use an installation bracket that conforms to VESA standards

Temperature of the working environment for this unit.

- For a location that is less than 1 400m (4 593ft) above sea level: 0°C to 40°C (32°F to 104°F)
- For a location more than 1 400m (4 593ft) but less than 2 800m (9 186ft) above sea level: 0°C to 35°C (32°F to 95°F)

Do not install the unit in a location more than 2 800m (9 186ft) above sea level.

- Failure to comply with this requirement may shorten the life of the internal parts and result in malfunction.

We are not responsible for product damage, or any consequences, caused by installation in an unsuitable environment, even during the warranty period.

Do not place the display where it may be affected by salt deposit or corrosive gas.

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

Required space for ventilation

- Make sure to leave at least 10cm (3.94") of free space above and below, and on both sides of the periphery of the display.

There should be at least 5cm (1.97") or more free space behind the display.

Specifications of the screws used to secure a wall hanging bracket that conforms to VESA standards

Inch model	Screw pitch for installation	Depth of screw hole	Screw (quantity)
55	400 mm × 400 mm	12 mm	M6 (4)

- Installing multiple displays

The LCDs in a multiple installation may expand slightly from the heat inside the main unit. This may

cause malfunction.

To avoid this problem a gap of 0.5mm or more should be left between the display bezel edges at installation.

Do not take hold of the display in such a way that your fingers or hands put pressure on the liquid crystal panel.

- Do not put force on the liquid crystal panel, or press or push it, or allow it to make contact with a hard or sharp object. Applying force to the liquid crystal panel can distort the screen, make it uneven, and cause malfunction .

Changes of temperature or humidity may cause the brightness of the display to be uneven. This is not a malfunction.

- The unevenness will disappear after the display has been running for some time. If the problem persists, consult the distributor.

Red, blue or green dots on the screen are a liquid crystal panel-specific phenomenon. This is not a malfunction.

- Although the liquid crystal display is manufactured with high-precision technology, always-lighting dots or non-lighting dots may appear on the screen. This is not a malfunction.
Dot omission ratio * : 0.00013% or less
*: Calculated in sub-pixel units according to the ISO9241-307 standard.

For the detailed installation method, refer to the following websites.

https://bizpartner.panasonic.net/public/ppr/file_view/187616

Product Access and Security

When using this product, take safety measures against the following.

- Personal information being leaked via this product.
- Unauthorized operation of this product by a malicious third party.
- Interference or blocking of this product by a malicious third party.

Take sufficient measures to ensure security.

- Set a password for the PJLink protocol and restrict access to a few authorized users.
- Make your password as difficult to guess as possible.
- Change your password often.
- No Panasonic Corporation personnel, or those of an affiliate company, will ever ask for your password directly. Never divulge your password should you ever receive such request.
- The connecting network must be secured by a firewall, and precautions against malware and viruses should be taken.
- Before disposing of this product, destroy all data [General settings]-[Factory settings].

Notes on Using Wired LAN

Take the necessary antistatic measures before setting up the Display in a location prone to electrostatic interference.

- If the Display is used in a place where electrostatic discharge is frequent, such as in a carpeted venue, disconnection of a wired LAN can become a nuisance. In such a case, remove the source of the problem, relocate the LAN cable, and install an anti-static mat.
- In rare cases, a LAN connection can be disabled by static electricity or noise. Turning the power to the Display and all the connected devices, off and on again, will most times restore the LAN connection.

The Display may not work properly in the presence of strong radio waves from a broadcast station or even a radio.

- If there should be a facility or equipment, which outputs strong radio waves near the installation, move the Display to a place far enough away to avoid the problem. Or the LAN cable can be shielded by a wrapping of metal foil that is continuous with the LAN terminal ground, or by being placed inside a metal conduit which is properly grounded at both ends.

Cleaning and maintenance

The front of the liquid crystal panel has been specially treated. Wipe the surface of the liquid crystal panel gently using only an LCD cleaning cloth, or other soft lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been slightly dampened with pure water, or water to which one drop of a neutral detergent has been added. After this wipe with a lint-free cloth until the surface is dry.
- Do not scratch the surface of the panel with a fingernail or other hard object to remove dirt, this may damage the surface. Furthermore, avoid spraying insect repellent near the display and also avoid using any kind of solvent such as thinners near the screen. These fluids can have an adverse effect on the surface.

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

- If the housing should become particularly dirty, wipe it with a cloth slightly dampened with water to which a drop of neutral detergent has been added. Use this cloth to wipe the cabinet and then wipe it dry with another cloth.
- Do not allow any detergent to come into direct contact with the surface of the Display. Make sure the cloth is only damp. If water droplets get inside the unit, operating problems may be the result.
- Volatile substances such as insect sprays, solvents and thinners, can harm not only the screen but also the Display housing. The coating may be adversely affected and may even peel off. Do not allow articles made of rubber or PVC to remain in contact with the Display housing for any length of time.

Using a chemical cloth

- Do not use a chemical cloth on the panel surface.
- Follow the instructions for using the chemical cloth on the Display housing.

Disposal

When you wish to dispose of this product, ask your local authority or dealer about how this should be done.

Accessories

Accessories Supply

Check that you have the accessories and items shown

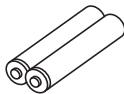
Remote Control Transmitter × 1

- DPVF1663ZA

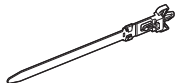


Batteries for the Remote Control Transmitter × 2

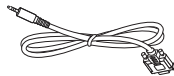
(AAA/R03/UM4 type)



Cable-tie fastener × 3



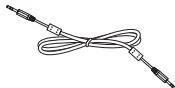
RS232C Convert Cable x1



RS232 Daisy Chain Cable x 1



IR Daisy Chain Cable x 1



IR Receiver Cable x 1



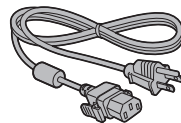
DisplayPort Cable x 1



Power supply cord

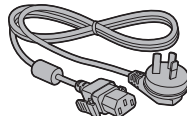
(Approx. 2 m)

TH-55LFV9U
1JP155AF1U

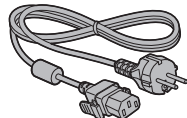


TH-55LFV9W

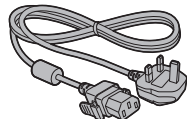
1JP155AF1W



2JP155AF1W



3JP155AF1W

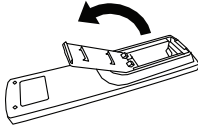


Attention

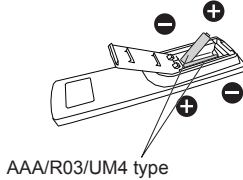
- Store small parts in a safe manner and keep them away from young children.
- The part numbers of accessories are subject to change without notice. (The actual part number may differ from the ones shown above.)
- If you should need replacements for lost accessories, please purchase them from your authorized dealer. (Available from customer service)
- Dispose of the packaging materials in the appropriate manner when no longer required.

Remote Control Batteries

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



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



3. Replace the cover.

Helpful Hint

- When the remote control is in frequent use, replace the old batteries with Alkaline ones which have longer life.



Precaution on battery use

Incorrect installation of the batteries can cause battery leakage and corrosion that will damage the remote control device.

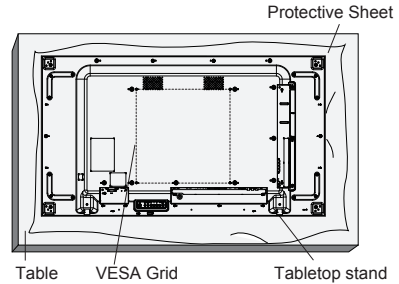
Discarded batteries should be dealt with in an environmentally-friendly manner.

Observe the following precaution:

1. Batteries must 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. Batteries should be replaced when the remote control works sporadically or fails to operate the Display.
6. Do not burn or break batteries open.
7. Do not leave batteries in direct sunlight, nor expose them to heat from radiators, stoves, or other sources of heat.

VESA Mounting

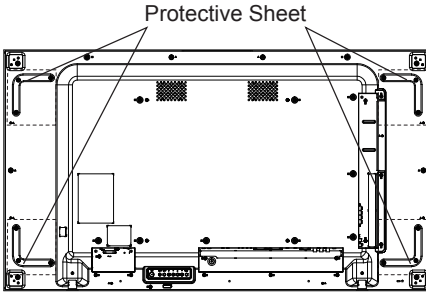
To mount this Display to a wall, you will have to obtain a standard wall-mounting kit (commercially available). We recommend using a mounting interface that complies with TUV-GS and/or UL1678 standard in North America.



1. Lay a protective sheet on a flat table. Place the display on the sheet, screen down, so as not to scratch the screen face.
2. Ensure you have all the accessories for mounting the Display (wall mount, ceiling mount, table stand, etc).
3. Follow the instructions that come with the base mounting kit. Failure to follow the correct mounting procedure could result in damage to the equipment or personal injury. The product warranty does not cover damage caused by improper installation.
4. Use M6 mounting screws for the wall-mounting which are at least 10mm longer than the thickness of the mounting bracket. Make sure the screws are tightened securely.

Cautions when moving

The display has handles for carrying. Use them when moving the unit.

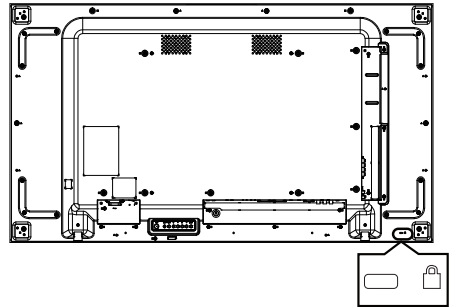


Notes

- Always hold the Display by the handles. Do not hold it by any other part.
- At least two people are needed to carry this unit. If this precaution is not taken, the unit may be dropped, resulting in both damage and personal injury.
- When carrying the unit, keep the liquid crystal panel vertical. Carrying the unit with the surface of the liquid crystal panel facing upwards or downwards may cause deformation of the panel, or internal damage.
- Do not handle the Display by the edges or corners. Do not support the display by using your hands on the front surface. Also, make sure that nothing collides with the front surface of the display. A blow to the front of the Display can damage the LCD screen. Furthermore, the glass panel might crack and cause personal injury

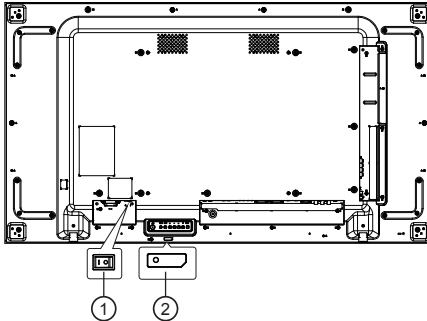
Kensington security

The security slot of this unit is compatible with the Kensington security cables.



Identifying Controls

Main unit



① Main power switch (I / O)

Switches the main power ON (I) / OFF (O).

- Turning ON/OFF the <Main power switch> is the same as plugging or unplugging the power cable plug. Switch the <Main power switch> ON (I), and then turn the power ON / OFF with the remote control or <Power button (Unit)>

② Power Indicator / Remote control sensor (Back of the unit)

The Power Indicator will light.

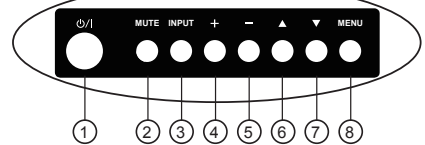
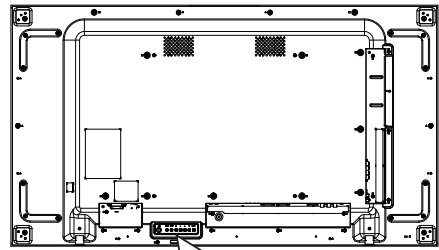
When the power of the unit is ON (Main power switch: ON (I))

- Picture is displayed: Green
- Power OFF (standby):
 - When [General settings]-[Eco mode] is set to [low power standby]:Red
 - When [General settings]-[Eco mode] is set to [normal]:Orange

When the power to the unit is OFF (Main power switch: OFF (O)): No light

Note

- When the power indicator is orange, power consumption during standby is larger than that of when the power indicator is red.



① [I / O] button

Use this button to turn the Display on or put the Display to standby.

② [MUTE] button

Switch the audio mute ON/OFF.

③ [INPUT] button

Choose the input source.

- Used as [ENTER] button in the On-Screen-Display menu.

④ [+] button

Increase the adjustment while OSD menu is on, or increase the audio output level while OSD menu is off.

⑤ [-] button

Decrease the adjustment while OSD menu is on, or decrease the audio output level while OSD menu is off.

⑥ [▲] button

Move the highlight bar up to adjust the selected item while OSD menu is on.

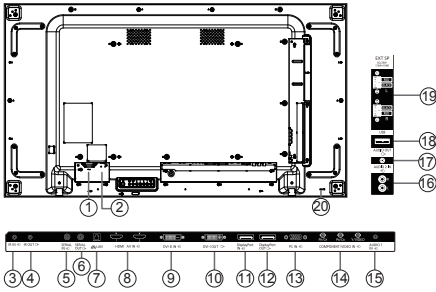
⑦ [▼] button

Move the highlight bar down to adjust the selected item while OSD menu is on.

⑧ [MENU] button

Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

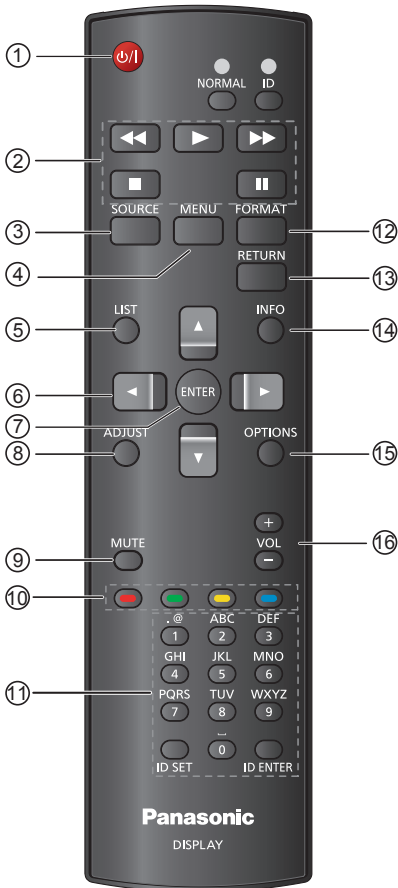
Interface



- ① AC IN**
AC power input from a wall outlet.
- ② MAIN POWER SWITCH**
Switch the main power on/off.
- ③ IR IN / ④ IR OUT**
IR signal input / output for the loop-through function.
- Notes**
- The Display's remote control sensor will stop working if the jack [IR IN] is connected.
 - To remotely control your A/V device via this Display, refer to the IR Pass Through connection.
- ⑤ SERIAL IN / ⑥ SERIAL OUT**
RS232C network input / output for the loop-through function.
- ⑦ LAN**
LAN control function for remote control signals from the control centre.
- ⑧ HDMI AV IN**
HDMI video/audio input.
- ⑨ DVI IN**
DVI-D video input.
- ⑩ DVI OUT (VGA OUT)**
DVI or VGA video output.
- ⑪ DisplayPort IN / ⑫ DisplayPort OUT**
DisplayPort video input / output.
- ⑬ PC IN (D-Sub)**
VGA video input.
- ⑭ COMPONENT / VIDEO IN (BNC)**
Component YPbPr/YCbCr, Video input.

- ⑮ AUDIO 1 IN**
Audio input for PC and DVI source (3.5mm stereo phone).
- ⑯ AUDIO 2 IN**
Audio input from external AV device (RCA).
- ⑰ AUDIO OUT**
Audio output to external AV device.
- ⑱ USB PORT**
Connect your USB storage device.
- ⑲ SPEAKERS OUT**
Audio output to external speakers.
- ⑳ SECURITY LOCK**
Used for security and theft prevention.

Remote Control



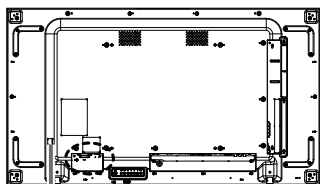
- ① **[POWER] POWER button**
Turn the Display on or to put the Display into standby mode.
- ② **[PLAY] buttons**
Used to play USB media file.
- ③ **[SOURCE] SOURCE button**
Choose input source. Press [▲] or [▼] button to choose from USB, HDMI1, HDMI2, DisplayPort, DVI-D, COMPONENT, VIDEO or PC Press [ENTER] button to confirm and exit.

- ④ **[HOME] HOME button**
Access the OSD menu.
- ⑤ **[LIST] LIST button**
No function.
- ⑥ **[NAVIGATION] NAVIGATION buttons**
Navigate through menus and choose items.
- ⑦ **[ENTER] button**
Confirm an entry or selection.
- ⑧ **[ADJUST] ADJUST button**
Access currently available picture, picture shift and sound menus.
- ⑨ **[MUTE] MUTE button**
Press to turn the mute function on/off.
 - When the Onscreen display shows the No signal display, the mute is not displayed on the screen.
- ⑩ **[COLOR] COLOR buttons**
Used to play USB media file.
- ⑪ **[Number / ID SET / ID ENTER] button**
Enter text for network setting.
Press to set the Display ID. Refer to ID Remote Control for more detail.
- ⑫ **[FORMAT] FORMAT button**
Change aspect ratio.
- ⑬ **[BACK] BACK button**
Return to the previous menu page or exit from the previous function.
- ⑭ **[INFO] INFO button**
View info about the Display.
- ⑮ **[OPTIONS] OPTIONS button**
Used to play USB media file.
- ⑯ **[VOLUME] VOLUME button**
Adjust volume on internal or external audio sources.
 - When the Onscreen display shows the No signal display, the volume is not displayed on the screen.

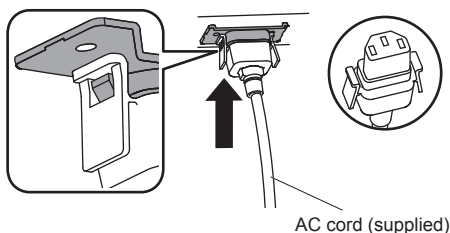
Connections

AC cord connection and fixing

Back of the unit



AC cord fixing



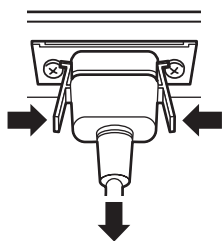
Plug the connector into the display unit.

Push it into the socket until it clicks.

Note

- Make sure that the connector is locked on both sides.

Unplug the AC cord



Unplug the connector pressing the two knobs.

Notes

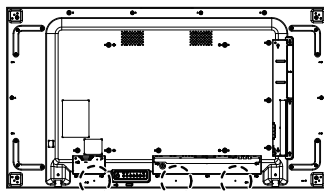
- Be absolutely sure to unplug the AC mains cable from the wall socket before disconnecting it from the Display.
- The AC cord supplied with the Display is for exclusive use with this Display. Do not use it for other purposes.

Cable fixing

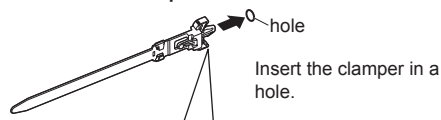
Note

- Three cable fasteners are supplied with this unit. Fix the cables at three locations using the holes provided, as shown below.

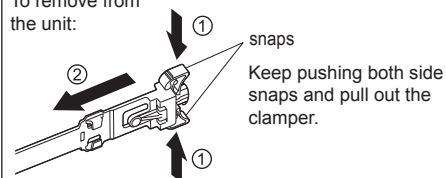
If you need more fasteners, purchase them from your dealer. (Available from customer service)



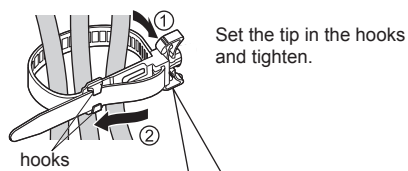
1. Attach the clammer



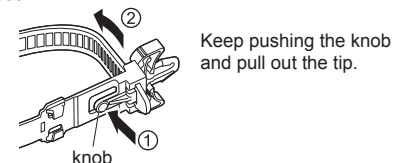
To remove from the unit:



2. Bundle the cables



To loosen:



Before connecting

- Before connecting cables, carefully read the operating instructions for the external device to be connected.
- Turn the power off to all devices before connecting any cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunction.
 - When connecting a cable to the unit or a device connected to the unit itself, touch a nearby metallic object to eliminate the chance of a static discharge that could damage electronic components.
 - Do not use unnecessarily long cables to connect a device to the unit or to the unit body. The longer the cable, the more susceptible will it be to noise. Do not leave cables coiled, the coils can pick up noise by induction and they also act as radio antennae.
 - When connecting cables, connect the GND first, then insert the connecting terminal of the device.
- Acquire any cable needed to connect the external device to the system that is not supplied with the device nor available as an option.
- If a plug is too big it can make contact with adjacent plugs, or parts of the device itself and this will interfere with proper connection. Use a cable with a suitable plug size to ensure proper alignment and connection.
- When connecting a LAN cable with a plug cover, be aware that the cover may come in contact with the back cover of the Display and it may be difficult to disconnect the cable.
- If signals from video equipment contain too much jitter, the images on the screen may wobble. In this case, a time base corrector (TBC) must be connected.
- When the sync signal output from the PC or video equipment is disturbed, such as might happen when video output settings are changed, the video image might change colour momentarily.
- The unit accepts Composite video signals, YC_BCR/YP_BPR signals (PC IN), analogue RGB signals (PC IN) and digital signals.
- Some PC models are not compatible with this unit.
- Use a cable compensator when long cables must be used to connect devices to the unit. Otherwise the image may not display correctly.

Basic controls

1. Connect the AC cord to the Display.
2. Connect the cord to an AC outlet.

Notes

- The control button referred to in this section is the one on the remote control unless specified otherwise.
 - Mains plug types vary between countries. The power plug shown here may not be the same as the one on your set.
 - When disconnecting the AC cord, be sure to always disconnect the cord at the AC socket outlet first.
3. Switch the <Main power switch>.
 4. Turn the power ON/OFF with the remote control or <Power button (Unit)>.

Watch the Connected Video Source

1. Press [SOURCE] button.
2. Press [▲] or [▼] button to choose a device, then press [ENTER] button.

Change Picture Format

You can change the picture format to suit the video source. Each video source has available picture formats.

The available picture formats depend on the video source:

1. Press [FORMAT] button.
2. Press [▲] or [▼] button to choose a picture format, then press [ENTER] button.
 - {Auto zoom}: Enlarge picture to fill the screen. Recommended for minimal screen distortion but not for HD or PC.
 - {Movie expand 16:9}: Scale 4:3 format to 16:9. Not recommended for HD or PC.
 - {Wide screen}: Shows wide screen format unstretched. Not recommended for HD or PC.
 - {Unscaled}: Provides maximum detail for PC.
 - {4:3}: Displays classic 4:3 format.

Choose your Preferred Picture Settings

1. While this Display is playing video source, press [ADJUST] button.
2. Press [←] or [→] button to choose **Picture style**, then press [ENTER] button.
3. Press [▲] or [▼] button to choose an option, then press [ENTER] button:
 - {Personal}: Apply your personalised picture settings.
 - {Vivid}: Rich and dynamic settings, ideal for daytime viewing.
 - {Natural}: Natural picture settings.
 - {Standard}: Default settings that suit most environments and types of video.
 - {Movie}: Ideal settings for movies.
 - {Photo}: Ideal settings for photos.
 - {Energy saving}: Settings that conserve the most energy.

Choose your Preferred Sound Settings

1. While this Display is playing video source, press [ADJUST] button.
2. Press [←] or [→] button to choose **Sound style**, then press [ENTER] button.
3. Press [▲] or [▼] button to choose an option, then press [ENTER] button:
 - {Personal}: Apply your personalised sound settings.
 - {Original}: Settings that suit most environments and types of audio.
 - {Movie}: Ideal settings for movies.
 - {Music}: Ideal settings for listening to music.
 - {Game}: Ideal settings for games.
 - {News}: Ideal settings for spoken audio, such as the news.

Technical Specifications

Display:

Item	Specifications
Screen Size (Active Area)	54.6" (138.7 cm) LCD
Aspect Ratio	16:9
Number of pixels	1 920 (H) x 1 080 (V)
Pixel pitch	0.630 (H) x 0.630 (V) [mm]
Brightness (typical)	500 cd/m ²
Contrast ratio (typical)	1 200:1
Viewing angle	178 degrees

In/Out Terminals:

Item		Specifications
Speaker Output	External Speakers	10W(L) + 10W(R) [RMS] / 8Ω
Audio Output	3.5mm stereo mini jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	Pin jack x 2 3.5mm stereo mini jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
SERIAL Input/ Output	2.5mm stereo mini jack x 2	RS232C input / RS232C output
LAN	RJ-45 socket x 1 (8 pin)	10/100 LAN Port
HDMI Input	HDMI socket x 2 (Type A) (18 pin)	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-D Input	DVI-D socket	Digital RGB: TMDS (Video)
PC Input	D-Sub Jack x 1 (15 pin)	Analogue RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 x 1080/60 Hz
DVI-I (DVI-D & PC) Output	DVI-I socket x 1 (29 pin)	Digital RGB: TMDS (Video) Analogue RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 x 1080/60 Hz
Component Input	BNC socket x 3	Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω) MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Input	BNC x 1 (Share with Component_Y)	Composite 1V [p-p] (75Ω)
DisplayPort in/out	DisplayPort socket x 2 (20 pin)	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz, 3840 x 2160/30 Hz (QFHD) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only

General:

Item	Specifications
Power Supply	TH-55LFBV9U: 110 - 127V 50 / 60Hz TH-55LFBV9W: 220 - 240V 50 / 60Hz
Power Consumption (Max)	185 W
Power Consumption (Standby & Off)	<0.5 W (RS232 active) / 0W
Dimensions (Without Stand) [W x H x D] (mm)	1 213.4 x 684.2 x 98.0
Weight (Without Stand)	27 Kg

Environmental Condition:

Item	Specifications	
Temperature	Operational	0 ~ 40°C * Environmental temperature to use this unit at high altitudes (1400m(4593ft) and higher and below 2800m(9186ft) above sea level) : 0°C to 35°C (32°F to 95°F)
	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	5 ~ 95% RH (No condensation)
Altitude	Operational	0 ~ 2,800 m
	Storage / Shipment	0 ~ 9,000 m

**PANASONIC PROFESSIONAL DISPLAY
 Limited Warranty**

Models or Parts	Part Warranty	Labor Warranty
All Professional Display Model	3 Years	3 Years
Exceptions		
All Panasonic accessories: e.g. mounting kit, input signal module, cables, remote control, filter, batteries.	1 Year	1 Year

Panasonic System Solutions Company of North America (referred to as “the Panasonic”) will repair the Professional Video product (the “Product”) and its accessories as defined in the attached table, with new or refurbished parts, free of charge in the continental USA, during the applicable warranty coverage period from the original date of purchase in the event of a defect in materials or workmanship as follows: On-Site, carry-in, or mail-in service within the **continental USA** may be obtained during the warranty period by contacting Panasonic’s Technical Support Center at the following toll free number **855-772-8324** or via

e-mail: ProDisplaySupport@us.panasonic.com. In case of mail-in service the customer is responsible for the cost of delivering of the Product to Panasonic’s facility, while Panasonic will pay for the return transportation of the repaired Product to the customer. For out of warranty Product units submitted for repairs or for in warranty units submitted by customers outside of the continental USA, shipping arrangements and cost (both ways) are the customer’s responsibility.

Panasonic will also not be responsible for any costs associated with determining the source of system problems or for removing and installing the faulty Product.

This warranty is extended only to the original purchaser and is nontransferable. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered. Whenever the date of original purchase cannot be satisfactorily determined, the date of manufacture of the unit will be deemed to be the effective date of the warranty. Panasonic reserves the right to audit and reject any warranty claim that cannot be substantiated. This warranty only covers failures due to defects in materials or workmanship which occur during normal use of the Product.

The warranty **DOES NOT** cover damage to the display and its components which occur in shipping; failures which are caused by products not supplied by Panasonic; failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, setup adjustments, improper antenna, inadequate signal pickup, maladjustment of user controls, improper operation, power line surge, improper voltage supply, lightning damage, smoke or chemical vapors contamination, air conditioning, humidity control or other environmental conditions; failure to maintain the product in accordance with the applicable Operating Instructions; service by anyone other than an authorized repair facility; damage that is attributable to acts of violence, war, acts of God or force majeure.

The warranty does not cover damage which occurs to the display or its components caused by excessive continual usage which goes beyond the operational time described in the Operating Instructions.
 The warranty does not cover units of which the model and serial number label has been defaced, modified, tampered with or removed.
 The warranty does not cover consumable parts.

LIMITS AND EXCLUSIONS

PANASONIC SHALL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF DATA, LOSS OF PROFIT, LOSS OF REVENUE, OR LOSS OF BUSINESS OR GOODWILL, SUFFERED BY ANY PERSON, AND RESULTING FROM THE USE OF THIS PANASONIC PROFESSIONAL DISPLAY PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS WARRANTIES SPECIFIED ABOVE ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

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

Panasonic Canada Inc.
 5770 Ambler Drive, Mississauga, Ontario L4W 2T3
LIMITED WARRANTY STATEMENT

Panasonic Canada Inc. (also known as PCI) warrants this product to be free of defects in material and workmanship under normal use during the applicable warranty coverage period described below. PCI agrees to repair, or at its option, exchange, any part that becomes defective. However, the product must be purchased and serviced in Canada. The product or part that shows evidence of defect must be delivered prepaid or carried in to an authorized Panasonic Broadcast Service Center. This warranty does not cover shipping costs.

The warranty coverage period is one year for both parts and labour beginning with the date of original end-user purchase, subject to the exceptions as stated below. Repaired or replacement parts supplied during the warranty coverage period carry the unexpired portion of the original warranty coverage period. Proof of product purchase is a condition of warranty service. The owner must produce the product purchase receipt or other satisfactory evidence of date of original purchase.

This warranty does not apply to external appearance items, such as handles, knobs, safety windows, etc. This warranty does not apply to any part, or parts, of the product, installed, altered, repaired or misused in any way that, in the opinion of PCI, affects the reliability of or detracts from the performance of the product.

For products requiring routine preventive maintenance, that maintenance must be performed in order to maintain warranty coverage. Serial numbers that have been altered, defaced or removed void this warranty. This warranty does not cover replacements or repairs necessitated by loss or damage resulting from any cause beyond the control of PCI.

Marking or related images (sometimes called "burn-in") resulting from the display of fixed images on video display products are not defects and are not covered under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY COVERAGE PERIOD EXCEPTIONS

Item	Parts	Labour
Video Tape	30 days—Replacement only (Content not covered)	N/A
F2/SD Cards	(Content not covered)	N/A
Video Heads	1 year or 2,000 hrs. (prelaid) Whichever comes first	Whichever comes first
D5 Video heads	1 year or 1,000 hrs. Whichever comes first	1 year or 1,000 hrs.
Maintenance Items	Whichever comes first	Whichever comes first
Colour Camera CCD	90 days	90 days
Imaging Block	2 years	2 years
All LCD Monitors	2 years (burn-in not covered)	2 years
* DLP™ Projectors	3 years or 17,000 hrs. Whichever comes first	3 years or 17,000 hrs. Whichever comes first
* LCD Projectors above 2,500 ANSI Lumens	3 years or 2,500 hrs. Whichever comes first	3 years or 2,500 hrs. Whichever comes first
* LCD Projectors below 2,500 ANSI Lumens	3 years or 1,500 hrs. Whichever comes first	3 years or 1,500 hrs. Whichever comes first
Projector Lamps	50% of life rated lamp life or 1 year. Whichever comes first	50% of life rated lamp life or 1 year. Whichever comes first
All Plasma displays 103 inch Plasma displays	2 years (burn-in not covered)	2 years
Hard Drive Disk Unit	3 years (burn-in not covered)	3 years
	1 year plus balance (if any) of the original Manufacturer's Limited Warranty. (Content not covered)	1 year

* Dust, smoke, rental/staging environment and twenty-four/seven operation, dramatically decreases the interval between performances of routine preventive maintenance required to maintain this warranty coverage.

Warranty Service

If the product needs to be shipped for service, carefully pack (preferably in the original carton) and enclose a letter detailing the complaint. Send prepaid and adequately insured to the local authorized Panasonic Service Centre in your area or to Panasonic Technical Support and Product Services Department, 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3. Shipping to the latter location requires a return authorization before shipment. No liability is assumed for loss or damage to the product while in transit.

Customer Service

Customer Service Directory

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

<http://www.lar.panasonic.com>

Also you may contact us directly by our Contact Center:

Panama	800-PANA (800-7262)
Colombia	01-8000-94PANA (01-8000-947262)
Ecuador	1800-PANASONIC (1800-726276)
Costa Rica	800-PANA737 (800-7262737)
El Salvador	800-PANA (800-7262)
Guatemala	1-801-811-PANA (1-801-811-7262)
Chile	800-390-602
	From a cell phone: 797-5000
Venezuela	800-PANA-800 (800-7262-800)
Uruguay	0-800-PANA (0-800-7262)
Peru	0-800-00-PANA (0-800-00726)
Argentina	0800-333-PANA (0800-333-7262)
	0810-321-PANA (0810-321-7262)
Paraguay	800-11-PANA (800-11-7262)
Dominican Republic	809-200-8000

Mexico Service

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

[email: atencion.clientes@mx.panasonic.com](mailto:atencion.clientes@mx.panasonic.com)

<http://www.panasonic.com.mx>

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

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

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

MEMO

A series of horizontal dashed lines for writing, spanning the width of the page.

Disposal of Old Equipment and Batteries

Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must 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.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



Note for the battery symbol (bottom symbol)

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.

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.

Notice (U.S.A. only)

Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: <http://www.panasonic.com/environmental> or call 1-888-769-0149.

Customer's Record

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

Model Number

Serial Number

For TH-55LFV9U

Panasonic System Solutions Company of North America

Unit of Panasonic Corporation of North America

Executive Office :

Two Riverfront Plaza, Newark, New Jersey 07102

Panasonic Canada Inc.

5770 Ambler Drive

Mississauga, Ontario

L4W 2T3

For TH-55LFV9W

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

Panasonic Testing Centre

Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH

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Panasonic Corporation

Web Site: <https://panasonic.net/cns/prodisplays/>

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