

Panasonic®

Operating Instructions Basic Guide

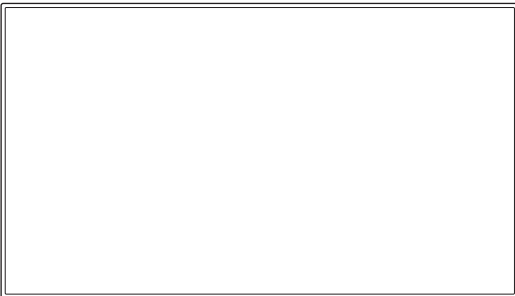
UHD Commercial LCD TV For business use

English

Model No. TH-98CQE2U	98-inch model
TH-86CQE2U	86-inch model
TH-75CQE2U	75-inch model
TH-65CQE2U	65-inch model
TH-55CQE2U	55-inch model
TH-50CQE2U	50-inch model
TH-43CQE2U	43-inch model

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

4K
PROFESSIONAL
*Actual resolution:
3840 × 2160p



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HDMI™



WARNING
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:

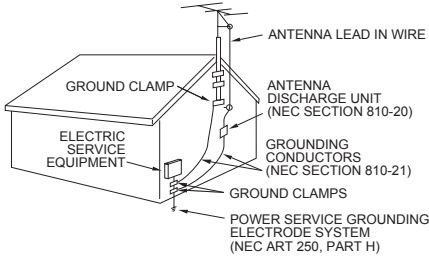
- 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type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

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over. 
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.
- 16) If an outside antenna is connected to the receiver, confirm that the antenna system is grounded to protect against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
The cable distribution system should be grounded

(earthed) in accordance with ANS/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE



- **Lightning** — For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.
 - **Power Lines** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17) An outside antenna system should not be located in the vicinity of overhead, power lines, other electric light, power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

FCC STATEMENT

- 86-inch model
- 75-inch model
- 65-inch model
- 55-inch model
- 50-inch model
- 43-inch model

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

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

98-inch model

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.

FCC and Industry Canada (IC) RF Exposure

Warning:

- This TV is provided with built-in transmitter: Wireless LAN Adapter with FCC ID: 2AVQS-17WFM26/ IC ID: 25888-17WFM26
- This transmitter complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment for mobile use with minimum 8 inches (20 cm) spacing requirement between transmitter and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- Other third-party wireless transmitters should not be used as they have not been RF exposure evaluated for use with this TV and may not comply with RF exposure requirements.

<Only for wireless LAN if capable of transmission in the 5.15 ~ 5.25 GHz frequency band>

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

IC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this product.

Supplier's Declaration of Conformity

Model No.

TH-98CQE2U, TH-86CQE2U, TH-75CQE2U,
TH-65CQE2U, TH-55CQE2U, TH-50CQE2U,
TH-43CQE2U

Responsible Party:

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

Contact Source:

Panasonic Connect 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.

86-inch model 75-inch model 65-inch model
55-inch model 50-inch model 43-inch model

CANADIAN NOTICE:

This Class B 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.

For USA-California Only

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply. See

www.dtsc.ca.gov/hazardouswaste/perchlorate

For Australia Only



WARNING: THIS PRODUCT CONTAINS A COIN BATTERY

Keep coin battery out of the reach of infants and small children whether the battery is new or used. Severe or fatal injuries can occur within 2 hours of ingestion. Seek medical attention immediately.



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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- microSDXC logo is the trademark of SD-3C, LLC.



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.

Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the sensor function not to work correctly.

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

98-inch model

WARNING:

This equipment is compliant with Class A of CISPR32. In a residential environment this equipment may cause radio interference.

WARNING

Stability Hazard

A TV set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the TV set.
- ALWAYS use furniture that can safely support the TV set.
- ALWAYS ensure the TV set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the TV set or its controls.
- ALWAYS route cords and cables connected to your TV so they cannot be tripped over, pulled or grabbed.
- NEVER place a TV set in an unstable location.
- NEVER place the TV set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- NEVER place the TV set on cloth or other materials that may be located between the TV set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the TV or furniture on which the TV is placed.

If the existing TV set is going to be retained and relocated, the same considerations as above should be applied.

The cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

This equipment is not suitable for use in locations where children are likely to be present.

Safety Precautions

WARNING

■ Setup

This LCD TV 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.

- Early Warning Software
(Basic license/3-year license):
ET-SWA100 series*

* : Suffix of the part number may differ depending on the license type.

Note

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

When installing the wall hanging bracket, read the operating instructions supplied with it carefully and install properly. Also, always use the overturn prevention accessories.

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.

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

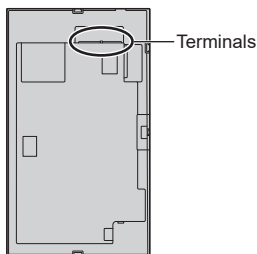
- The TV may fall off or tip over.

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.

Caution - For use only with UL Listed Wall Mount Bracket with minimum weight/load 99.8 kg (220.1 lbs).

When installing the TV vertically, be sure that the terminals come to the upper side.



- If installed in different directions, heat is generated and it may cause fire or damage to the TV.

When using this unit, be sure to take safety measures to prevent falling or dropping of the unit.

- If an earthquake occurs or a child climbs the unit, the unit may fall or drop, resulting in an injury.

Do not position the unit with its liquid crystal panel facing upright.

- There are conditions of mounting method, environmental temperature, connections and settings. If installed in different conditions, heat is generated and it may cause fire or damage to the TV.

Cautions for Wall or Pedestal Installation

- The installation should be performed by an installation professional. Installing the TV incorrectly may lead to an accident that results in death or serious injury.
- When installing the pedestal, the pedestal that conforms to VESA standards must be used.
- When installing on a wall, the specified wall hanging bracket (optional accessory) or a wall hanging bracket that conforms to VESA standards must be used.

98-inch model :

VESA 800 × 400

86-inch model **75-inch model** **65-inch model** :

VESA 600 × 400

55-inch model :

VESA 400 × 400

50-inch model **43-inch model** :

VESA 200 × 200

(see page 9)

- Before installation, be sure to check if the mounting location has enough strength to support the weight of the TV and the wall hanging bracket for anti drop.
- If you terminate the use of the product, ask a professional to remove it promptly.
- When mounting the TV 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.

■ When using the LCD TV

The TV is designed to operate on 110 - 127 V ,60 Hz.

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.

- Unplug the power supply plug from the wall outlet, and then contact the dealer for repairs.
- To cut off the power supply to this TV 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.

Do not touch the unit directly by hand when it is damaged.

- Electric shock could occur.

Do not stick any foreign objects into the TV.

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

Do not remove the cover (cabinet) or modify it.

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

Ensure that the mains plug is easily accessible.

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

Do not use any power supply cord other than that 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 may cause short-circuit, generates heat, etc., which could cause electric shock or fire.

Clean the power supply plug regularly to prevent it becoming dusty.

- If there is a build up of dust on the plug, the resultant humidity may cause short-circuit, which could cause electric shock or fire. Unplug the power supply plug from the wall outlet and wipe it with a dry cloth.

Do not handle the power supply plug with wet hands.

- Doing so may cause electric shocks.

Securely insert the power supply plug (socket outlet side) and the power supply connector (main unit side) 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.

- **98-inch model** :

Press down the power cord holder until the end of the power cord holder snaps onto the power cord to secure the power cord. (see page 19)

Do not do anything that may damage the power supply cord or the power supply plug.

- 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 touch the power supply cord or the plug directly by hand when they are damaged.

- Doing so may cause electric shock or fire due to short-circuit.

Keep the supplied M3 screw 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.

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



CAUTION

Do not place any objects on top of the TV.

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

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

For sufficient ventilation, see page 9.

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

- Doing so may cause the TV to fall due to corrosion, and it may result in injury. Also, the unit may malfunction.

The following number of people are required to carry or unpack this unit.

98-inch model 86-inch model 75-inch model :

4 or more

65-inch model 55-inch model 50-inch model

43-inch model :

2 or more

98-inch model 86-inch model 75-inch model

65-inch model :

Be sure to hold the handle, when carrying or moving the TV.

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

When disconnecting the power supply cord, always pull on the plug (socket outlet side) / the connector (main unit side).

- Pulling the cord may damage the cord, and it may cause electric shock or fire due to short-circuit.

Be sure to disconnect all cables and overturn prevention accessories before moving the TV.

- If the TV 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.

Do not step on, or hang from the TV.

- 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 13)

Do not use batteries with the outer cover peeling away or removed.

- Mishandling the batteries may cause the batteries to short circuit, resulting in fire, injury or damage to surrounding properties.

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.

Remove exhausted batteries from the remote control immediately.

- Leaving the batteries unattended in it may cause battery leakage, heat or burst.

Do not burn or breakup batteries.

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

Do not turn the TV upside down.

Wireless LAN Transmitter Specifications

Frequency Ranges	Max Output Power
2400 - 2483.5 MHz (CH1-CH13)	< 100 mW
5150 - 5250 MHz (CH36 - CH48)	< 200 mW
5250 - 5350 MHz (CH52 - CH64)	< 200 mW
5470 - 5725 MHz (CH100 - CH140)	< 200 mW

Country Restrictions

The requirements for any country may change at any time. It's recommended that user checks with local authorities for the current status of their national regulations for 5 GHz wireless LAN's.

Precautions for use

Cautions when installing

Do not set up the TV outdoors.

- The TV is designed for indoor use.

Install this unit at a location which can support the weight of the unit.

- Dropping or falling of the unit may cause injury.

Do not install the unit near a high-voltage line or a power source.

- Installing the unit near a high-voltage line or a power source may receive interference.

Install the unit away from heat appliances.

- Failure to do so may cause deformation of the cabinet or malfunction.

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.

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)

We are not responsible for any product damage, etc. caused by failures in the installation environment even during the warranty period.

Transport only in upright position!

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

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.

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

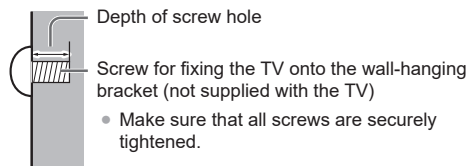
- If the unit is exposed to direct sunlight even indoors, the temperature rise of the liquid crystal panel may cause malfunction.

In the case of storage, store the unit in a dry room.

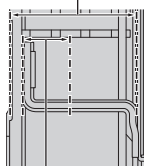
Required space for ventilation

- When installing the unit in a case or chassis, provide a cooling fan or ventilation hole to ensure appropriate ventilation so that the temperatures surrounding the unit including the front surface of the liquid crystal panel (temperature of inside the case or chassis) can be maintained within the range of the operating temperature of the unit.

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



Allowable screw length



Depth of screw hole

(View from the side)

(A): Screw pitch for installation

(B): Depth of screw hole

(C): Allowable screw length

(D): Screw (quantity)

Inch model	(A)	(B)	(C)	(D)
98	800 mm × 400 mm	12 mm	-	M8 (4)
86	600 mm × 400 mm	12 mm	-	M8 (4)
75	600 mm × 400 mm	10 mm	23 mm	M8 (4)
65	600 mm × 400 mm	10 mm	24 mm	M6 (4)
55	400 mm × 400 mm	10 mm	24 mm	M6 (4)
50	200 mm × 200 mm	10 mm	24 mm	M6 (4)
43	200 mm × 200 mm	10 mm	23 mm	M6 (4)

Note for connection

Removing and inserting the power cord and connection cables

- When the unit has been installed on the wall, if the power cord and connection cables are difficult to remove and insert, make connections first before installation. Be careful not to allow the cables to be entangled. After installation is completed, insert the power plug to the outlet.

When using

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.

When polarization sunglasses are worn, the screen display may be invisible.

- This phenomenon occurs due to deflection characteristics of the liquid crystal panel. This is not a malfunction.

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.

Inch model	Dot omission ratio*
98	0.00011% or less
86	0.00007% or less
75	0.00004% or less
65	0.00004% or less
55	0.00004% or less
50	0.00004% or less
43	0.00004% or less

*: Calculated in sub-pixel units according to the ISO9241-307 standard.

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.

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

- When storing the product for long periods with no power supplied, do not store it in a location exposed to direct sunlight.

If the power is instantaneously interrupted or stopped, or if the power voltage is instantaneously lowered, the TV may not operate normally.

- In this case, turn off the power of the TV and the connected devices once, and then turn on the power again.

Picture noise may occur if you connect / disconnect the cables connected to 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.

Notes on Using Wired LAN

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

- When the TV is used at a location, where static electricity occurs often, such as on a carpet, a wired LAN communication is 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 TV and the connected devices once and then re-turn on the power.

The TV 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 TV 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.

Bluetooth® wireless technology

CAUTION

The TV use the 2.4 GHz radio frequency ISM band (Bluetooth®). To avoid malfunctions or slow response caused by radio wave interference, keep the TV away from the devices such as other wireless LAN devices, other Bluetooth® devices, microwaves, mobile phones and the devices that use 2.4 GHz signal.

Request Regarding Security

When using this unit, take safety measures against the following incidents.

- Personal information being leaked via this unit
- Unauthorized operation of this unit by a malicious third party
- Interfering or stopping of this unit by a malicious third party

Take sufficient security measures.

- Set a password for the LAN control and restrict the users who can log in.
- Make your password difficult to guess as much as possible.
- Change your password periodically.
- Panasonic Connect Co., Ltd. or its affiliate companies will never ask for your password directly. Do not divulge your password in case you receive such inquiries.
- The connecting network must be secured by a firewall, etc.
- When disposing the product, initialize the data before disposing.

Cleaning and maintenance

First, remove the mains plug from the mains socket.

Gently wipe the surface of the liquid crystal panel or cabinet by using a soft cloth to remove dirt.

- To remove stubborn dirt or fingerprints on the surface of the liquid crystal panel, dampen a cloth with diluted neutral detergent (1 part detergent to 100 parts water), wring out the cloth firmly, and then wipe away the dirt. Finally, wipe away all the moisture with a dry cloth.
- If water droplets get inside the unit, operating problems may result.

Note

- The surface of the liquid crystal panel is specially treated. Do not use a hard cloth or rub the surface too hard, otherwise this may cause scratches on the surface.

Usage of a chemical cloth

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

Avoid contact with volatile substances such as insect sprays, solvents and thinner.

- This may cause damage to the cabinet or cause peeling of the paint. Furthermore, do not leave it in contact with a rubber or PVC substance for a long time.

Remove dust and dirt from the ventilation holes

- Dust may adhere to the vicinity of the ventilation holes depending on the usage environment. As a result, if the internal cooling of this unit or circulation of exhaust heat deteriorates, it may result in a decrease in brightness or a malfunction. Clean and remove dust from the ventilation holes.
- The amount of dust and dirt that adheres depends on the installation location and usage time.

Disposal

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

About Wireless LANs

Precautions on security when using wireless LAN products

- The advantage of a wireless LAN is that information can be exchanged between a PC or other such equipment and an access point using radio waves as long as you are within range for radio transmissions. On the other hand, because the radio waves can travel through obstacles (such as walls) and are available everywhere within a given range, problems of the type listed below may occur if security-related settings are not made.
 - A malicious third-party may intentionally intercept and display transmitted data including the content of e-mail and personal information such as your ID, password, and/or credit card numbers.
 - A malicious third-party may access your personal or corporate network without authorization and engage in the following types of behavior.
 - Retrieve personal and/or secret information (information leak)
 - Spread false information by impersonating a particular person (spoofing)
 - Overwrite intercepted communications and issue false data (tampering)
 - Spread harmful software such as a computer virus and crash your data and/or system (system crash)
- Since most wireless LAN adapters or access points are equipped with security features to take care of these problems, you can reduce the possibility of these problems occurring when using this product by making the appropriate security settings for the wireless LAN device.
- Some wireless LAN devices may not be set for security immediately after purchase. To decrease the possibility of occurrence of security problems, before using any wireless LAN devices, be absolutely sure to make all security-related settings according to the instructions given in the operation manuals supplied with them.

Depending on the specifications of the wireless LAN, a malicious third-party may be able to break security settings by special means.
- Please contact Panasonic if you need help taking care of security settings or other such.
- If you cannot perform security settings you're your wireless LAN by yourself, please contact the Panasonic Support Centre.
- Panasonic asks customers to thoroughly understand the risk of using this product without making security settings, and recommends that the customer make security settings at their own discretion and responsibility.

Accessories

Accessories Supply

Check that you have the accessories and items shown.

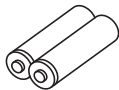
Remote Control Transmitter × 1

- DPVF3279ZA/X1



Batteries for the Remote Control Transmitter × 2

(AA/R6/LR6 type)



Clamper × 3

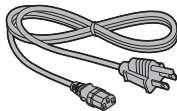
- DPVF3412ZA/X1



Power cord

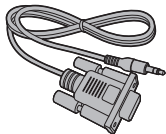
(Approx. 2 m)

- DPVF3408ZA/X1



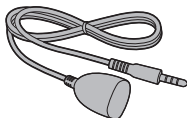
RS232C Cable (Approx. 1 m) × 1

- DPVF4637ZA/X1



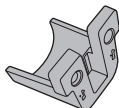
IR Sensor × 1

- DPVF3415ZA/X1



IR Sensor's Holder × 1

- DPVF3416ZA/X1



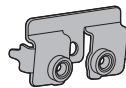
Screw (for IR Sensor's Holder) × 2

- DPVF3417ZA/X1



Plate (for IR Sensor's holder on 98 inch) × 1

- DPVF3672ZA/X1



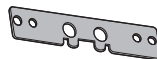
Screw (for IR Sensor's holder Plate on 98 inch) × 3

- DPVF4202ZA/X1



Plate (for IR Sensor's holder on 86 inch) × 1

- DPVF3524ZA/X1



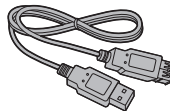
Wi-Fi dongle (for 98/86 inch) × 1

- DPVF4638ZA/X1



Extended Cable for Wi-Fi dongle (for 98/86 inch) × 1

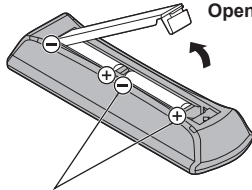
- DPVF3414ZA/X1



Attention

- Store small parts in an appropriate 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.)
- In case you lost accessories, please purchase them from your dealer. (Available from the customer service)
- Dispose the packaging materials appropriately after taking out the items.


Remote Control Batteries



Open the battery cover.

AA/R6/LR6 type

Insert batteries and close the battery cover.

(Insert starting from the  side.)

Note

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

Take the following precautions.

1. Batteries shall always be replaced as a pair.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example; manganese dioxide battery and alkaline battery etc.).
4. Do not attempt to charge, disassemble or burn used batteries.
5. Do not burn or breakup batteries.
Moreover, batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Cautions when moving

98-inch model

86-inch model


75-inch model

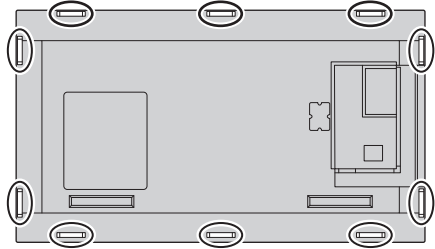
65-inch model

The TV has handles for carrying. Hold them when moving.


98-inch model

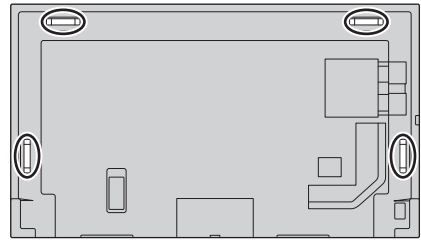
86-inch model

 : Handle



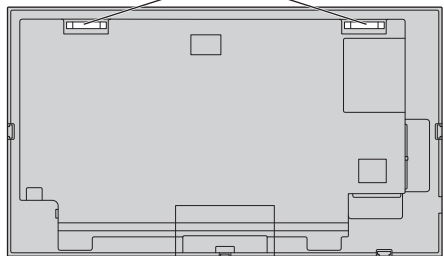
75-inch model

 : Handle



65-inch model

Handle



Note

- 98-inch model 86-inch model 75-inch model
65-inch model

Do not hold parts other than the handles.

- The following number of people are required to carry this unit.

98-inch model 86-inch model 75-inch model :
4 or more

65-inch model 55-inch model 50-inch model

43-inch model :
2 or more

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

- When carrying the unit, keep the liquid crystal panel upright.

Carrying the unit with the surface of the liquid crystal panel facing up or down may cause deformation of the panel, or internal damage.

- Do not hold the upper, lower, right and left frames or the corners of the unit. Do not hold the front surface of the liquid crystal panel. Also, do not hit such parts.

Doing so may damage the liquid crystal panel.

Also, the panel may crack, resulting in injury.

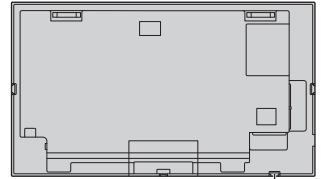
Fixing the external IR Sensor

65-inch model 55-inch model 50-inch model
43-inch model

The IR sensor is built in the TV.

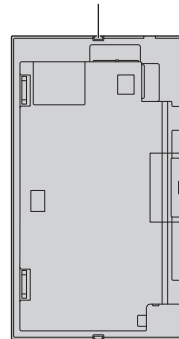
If the response of the built-in IR sensor is poor when operating the remote control transmitter, it is possible to improve the response of the remote control transmitter by attaching the included external IR sensor to the TV.

Landscape



The position for fixing the external IR Sensor

Portrait

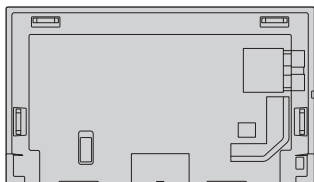


98-inch model 86-inch model 75-inch model

The IR sensor is not built in the TV.

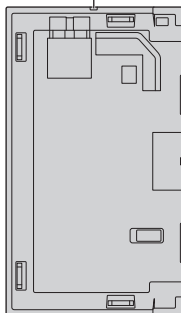
When operate the remote control transmitter, it is needed to fix the external IR sensor.

Landscape



The position for fixing the external IR Sensor

Portrait

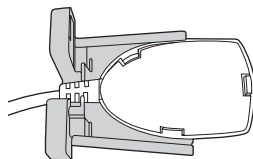


How to fixing the external IR sensor

75-inch model 65-inch model 55-inch model

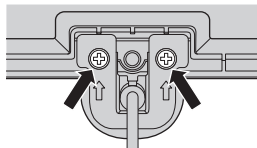
50-inch model 43-inch model

1 Fix the sensor to the holder.



2 Tighten two screws which are included in accessory bag.

Back view



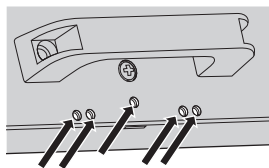
3 Connect the sensor cable to the terminal of IR-IN.



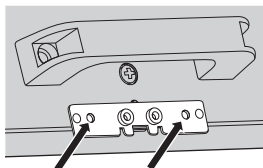
86-inch model

1 Remove the five screws on TV.

Back view

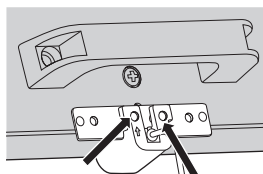


2 Tighten two screws (in the five screws) to plate.

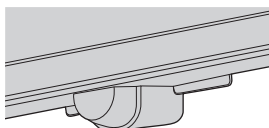


3 Fix the sensor to holder.

4 Tighten two screws (in the five screws) to holder. (No needed to use one screw in five screws)



Front view



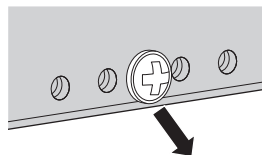
5 Connect the sensor cable to the terminal of IR-IN.



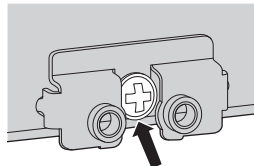
98-inch model

1 Remove the screw, and do not use.

Back view

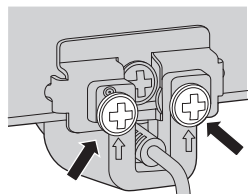


2 Tighten one screw which is included in accessory bag to plate.

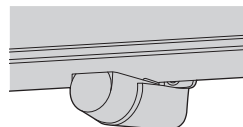


3 Fix the sensor to holder.

4 Tighten two screws which are included in accessory bag to holder.



Front view



5 Connect the sensor cable to the terminal of IR-IN.



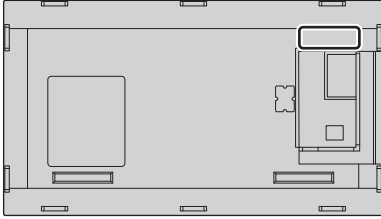
Fixing the Wi-Fi Dongle

98-inch model

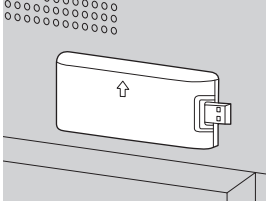
86-inch model

When fixing the Wi-Fi Dongle, follow the steps below.

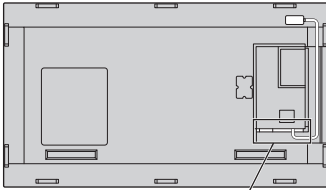
- 1 Peel off the release paper of velcro tape.**



- 2 Fix the Wi-Fi Dongle on the rear cover.**



- 3 Connect the extended cable to Wi-Fi Dongle and either USB terminal.**



Connections

Cautions for power cord

86-inch model

75-inch model

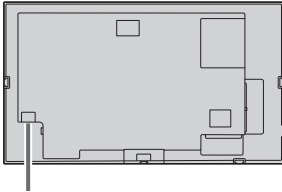
65-inch model

55-inch model

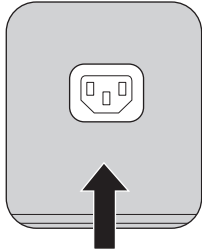
50-inch model

43-inch model

Back of the unit



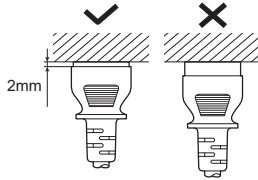
Power cord fixing



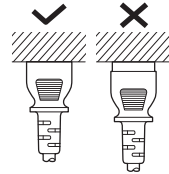
Power cord (supplied)

Plug the connector into the TV unit.

86-inch model



75-inch model

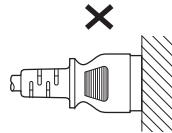
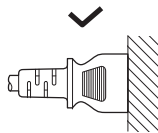


65-inch model

55-inch model

50-inch model

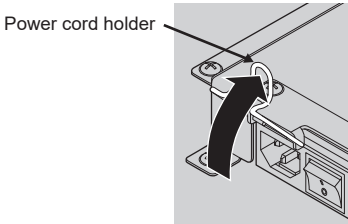
43-inch model



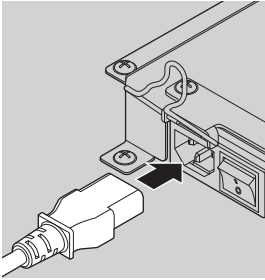
Note

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

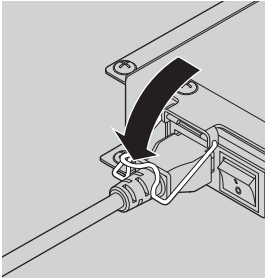
- 1 Confirm that the power cord holder is raised so that the power cord can be inserted.



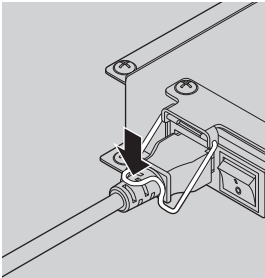
- 2 Then insert the connector completely in the correct direction.



- 3 Lower the power cord holder.

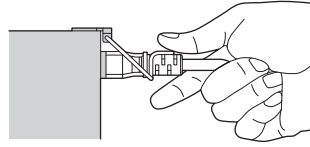


- 4 Press down the power cord holder until the end of the power cord holder snaps onto the power cord to secure the power cord.



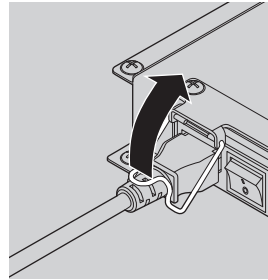
Note

- When pressing down and snapping the power cord holder onto the power cord, hold the power cord from the opposite side to avoid excessive force to be applied on the <AC IN> terminal.

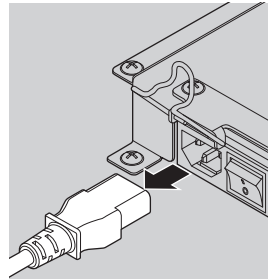


How to unplug the power cord

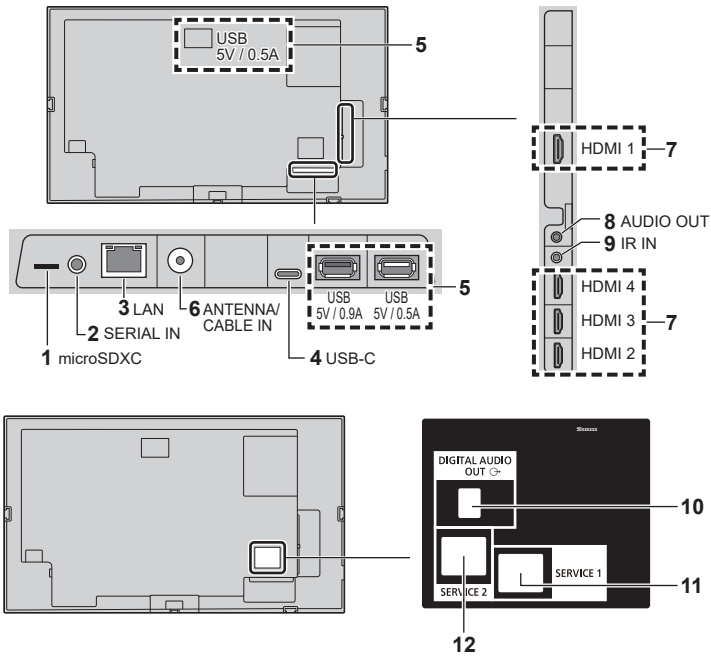
- 1 Raise the power cord holder fixing the power cord upward.



- 2 While holding the Power cord holder, pull out the power cord from the <AC IN> terminal of the TV.



Video equipment connection



1 microSDXC: microSD Card Terminal
Connect the microSD card.

2 SERIAL IN: SERIAL Input Terminal
Control the TV by connecting to PC using accessory RS-232C cable.

3 LAN: LAN Terminal
Control the TV by connecting to Network.

4 USB-C: USB-C Terminal
Connect a PC or video equipment that has a USB-C terminal. Also, this can be used to supply power of up to 15 W (5 V/max 3.0 A) to an external device when the picture is displayed.

5 USB: USB Terminal
Connect the USB memory to use "USB media player" or "USB Auto Playback". Also, this can be used to supply power of up to 5 V/max 0.9 A or 0.5 A to an external device when the picture is displayed.

6 ANTENNA/CABLE IN: Antenna Terminal
Connect to antenna cable

7 HDMI IN 1, HDMI IN 2, HDMI IN 3, HDMI IN 4: HDMI Input Terminal (4 systems)
Connect to video equipment with HDMI output. Also, the HDMI IN 1 terminal outputs audio by connecting it to an ARC compatible device.

8 AUDIO OUT: Analogue Audio Output Terminal
Connect to audio equipment with analogue audio input terminal.

9 IR IN: Infrared Signal Input Terminal
Control the TV by remote controller using accessory IR Sensor.

10 DIGITAL AUDIO OUT: Digital Audio Output Terminal
Connect to audio equipment with digital audio input terminal.

11 SERVICE 1: Terminal for Service
Don't use except service personnel.

12 SERVICE 2: Terminal for Service
Don't use except service personnel.

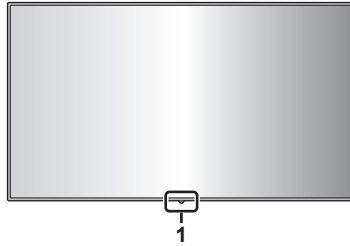
Before connecting

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

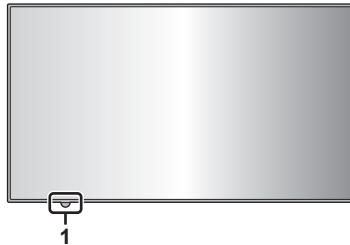
Identifying Controls

TV

98-inch model 86-inch model 75-inch model



65-inch model 55-inch model 50-inch model
43-inch model



1 External IR sensor (see page 14)

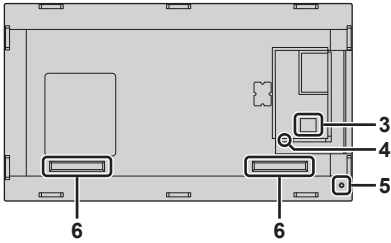
When the power of the unit is ON (Main power switch : ON)

LED Status	Status of the TV
Power LED lit Green	Power on
Power LED lit Red	Power off (Standby mode)
Power LED lit Red & Green	Starting Up

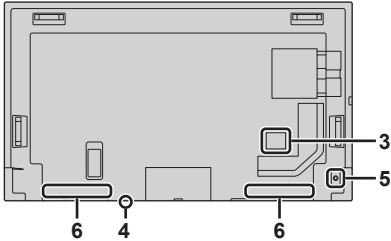
When the power of the unit is OFF (Main power switch : OFF): No light

98-inch model

86-inch model

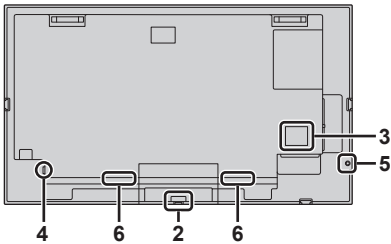


75-inch model



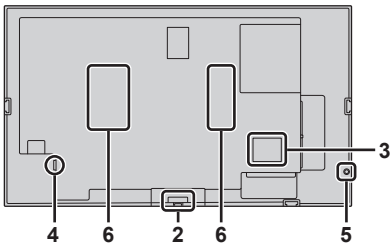
65-inch model

55-inch model



50-inch model

43-inch model



2 Internal IR sensor (65/55/50/43 inch model)

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

LED Status	Status of the TV
Power LED lit Green	Power on
Power LED lit Red	Power off (Standby mode)
Power LED lit Red & Green	Starting Up

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

3 External input / output terminal

Connects to video equipment, PC, etc. (see page 20)

4 Main power switch

Turns OFF or ON (I) the main power.

Turning ON and OFF the Main power switch is the same as plugging and unplugging the power plug.

Turn ON (I) the main power first, and then turn OFF or ON the power using the Power button of the remote control or the unit.

5 Joystick

When the HOME menu is displayed (*1), or any picture is displayed

To turn on or off the Display: Press center of the Joystick in and hold it down for a few seconds, the Display will turn on or off.

With cursor display (*1 *2)

Move the cursor of menu: Press right / left / up / down key of the Joystick.

Select the menu item: Single press center of the Joystick.

Without cursor display

Show display settings: Single press center of the Joystick.

Adjust volume (during audio output only):

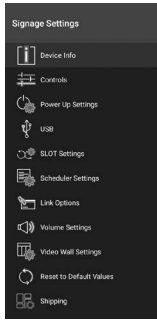
Press right / left key of the Joystick.

Show signage settings: Press up / down key of the Joystick.

*1 HOME menu



*2 Example of menu



Note

- The Joystick may not work in some situations and with some used applications. Use the remote control transmitter in these cases.

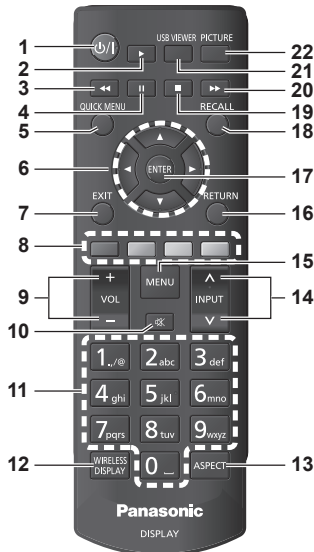
6 Built-in speakers

Sound is output backward.

Note

- When AUDIO OUT jack is connected, the sound does not output from the built-in speakers.

Remote Control Transmitter



1 Standby (ON/OFF)

- Switches On / Off the TV.

2 Play

- Starts to play selected media.

3 Rapid reverse

- Moves frames backwards in media such as movies.

4 Pause

- Pauses the media being played.

5 QUICK MENU (HOME)

- Displays HOME menu.

6 Directional buttons

- Used to operate the menu screens, content etc.

7 EXIT

- Closes and exits from displayed menus.

8 Coloured buttons

- Not used on this unit.

9 VOL + / -

- Increases or decreases the volume.

10 MUTE

- Completely turns off the volume of the TV.

11 Numeric buttons

- Used to enter IP address, etc.

Note

- Entry of other than numerals is not available on this unit.

12 WIRELESS DISPLAY

- Opens the wireless display connection screen.

13 ASPECT

- Changes the aspect ratio of the screen.

14 INPUT

- Switches input to display on the screen.

15 MENU

- Displays the main menu.

16 RETURN

- Returns to previous screen.

17 ENTER

- Confirms user selections.

18 RECALL

- Displays information about on-screen content.

19 Stop

- Stops the media being played.

20 Rapid advance

- Moves frames forward in media such as movies.

21 USB VIEWER

- Not used on this unit.

22 PICTURE

- Cycles between picture modes.

Note

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

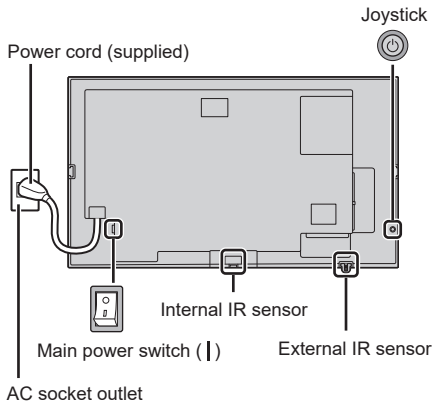
(Example: <INPUT>.)

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.

- No.2, 3, 4, 19, 20 keys: These keys are used to operate the USB viewer or HDMI CEC.

Basic Controls

Example of 55-inch model (see page 22)



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



Note

- 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.
- When directly aiming the remote control at the remote control sensor of the main unit, the distance from the front of remote control sensor should be approx. 7 m or less. Depending on the angle, the operation distance may be shorter.
- Do not subject the remote control sensor of the main unit to the direct sunlight or strong fluorescent light.

1 Connect the power cord plug to the TV.

(see page 18)

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

3 Turn ON (I) the Main power switch on the unit.

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

To turn the power on

- When the Main power switch is ON (I) (Power Indicator - red), press Standby (ON/OFF) button then the picture will be displayed.
- Power Indicator: Green (Picture is displayed.)

To turn the power off

- When the Main power switch is ON (I) (Power Indicator - red), press Standby (ON/OFF) button, then the power will be turned off.
- Power Indicator: Red (standby)

Note

- During operation of the "Power management" function, the power indicator turns purple in the power off state.
- After the power plug is disconnected, the power indicator may remain lit for a while. This is not a malfunction.
- The TV turns off if the Main power switch is turned OFF on the unit while the unit is ON (picture is displayed) or OFF (standby state).

Initial Setup

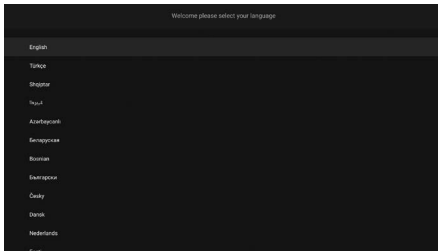
When turned on for the first time, initial setup should be performed. Follow the on-screen instructions to set up your TV.

The installation wizard will guide you through the setup process. Use the directional buttons and the ENTER button on the remote to select, set, confirm and proceed. Use <RETURN> to return to the previous step and change the selected content.

When you don't need to set it, or if you want to set it later, you need to highlight [Skip], [Next], etc. on the screen and press <ENTER> to continue.

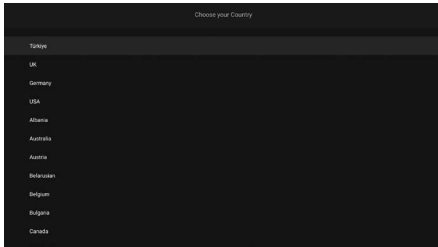
1 Language

The language selection options will be listed on the screen. Select the desired language from the list and press <ENTER> to continue.



2 Country

In the next step select your country from the list and press <ENTER> to continue.

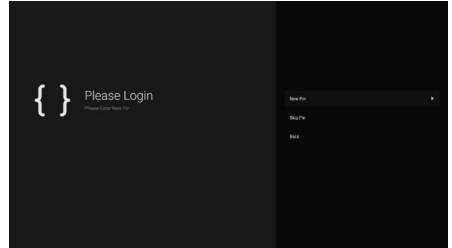


3 Login

You will be asked to define a PIN at this point. Enter a PIN twice for confirmation using the virtual keyboard and then highlight [Continue] and press <ENTER>. You have to enter this PIN if you are asked to enter a PIN for any menu operation later. To skip this step highlight [Skip Pin] and press <ENTER>.

Note

- The default PIN is [0000].



4 Name and Password

The [Set Username and Password] setting menu will be displayed next. Please press the password policy to check the contents and make each setting. After the settings are completed, press [Apply] to save.

[Password Policy]

The points to note about password setting for this item are displayed in a separate window.

[Enter Username]

The keyboard for entering the username is displayed. Enter the username.

[Enter New Password]

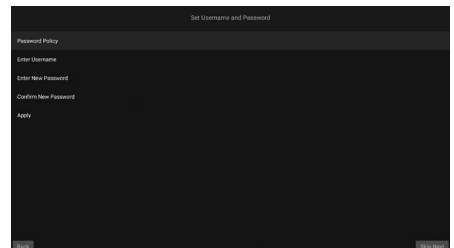
The keyboard for entering the password is displayed. Enter the password.

[Confirm New Password]

The keyboard for entering the password is displayed. Enter the same password again.

[Apply]

The username and password set above are saved in the display itself.

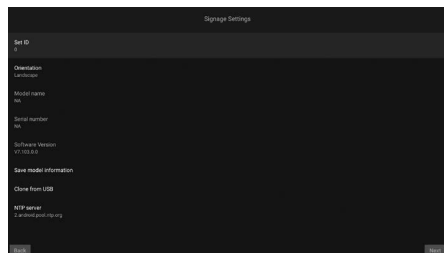


5 Signage Settings

The [Signage Settings] menu will be displayed next. The [Set ID], [Orientation], and [NTP server] options can be configured using this menu. The [Model name], [Serial number], and [Software Version] options are for information only. You can save the model information data of the TV to a connected USB storage device using the [Save model information] option.

You can also copy database files from a connected USB storage device to the TV using the [Clone from USB] option. Refer to the “Signage Settings” section for more information on the options of this menu.

After the settings are completed, highlight [Next] and press <ENTER> to continue.

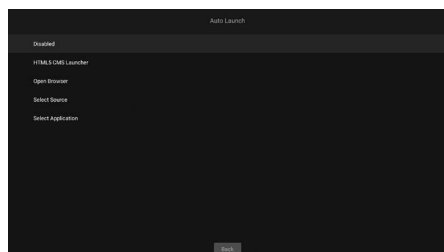


6 Auto Launch

In this step you can set your Auto Launch preference for the TV. [Disabled], [HTML5 CMS Launcher], [Open Browser], [Select Source], and [Select Application] options will be available. Set to [Disabled] if you don't want to use this functionality.

Note

- For the [Select Source] and [Select Application] options you will have to set the available source or application of your choice. You can change your preference any time later using the [Auto Launch] option in the [Display Settings] → [Signage Settings] → [Power Up Settings] menu.



7 Display Operation Mode

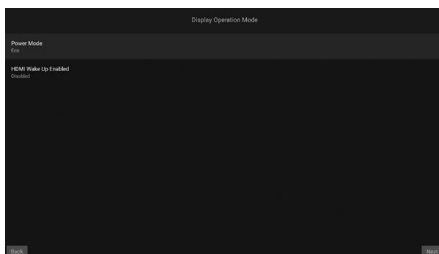
The [Display Operation Mode] selection screen will be displayed next.

For normal operation set the [Power Mode] to [Reactive]. Set to [Eco] for an energy-efficient operation. In this mode your TV's settings will be configured to reduce the energy consumption. Note that, the SERIAL (RS-232C)/LAN Commands will not work if the TV is in Eco mode.

When you turn the power ON/OFF by detecting HDMI input 5 V signal, you need to enable the [HDMI Wake Up Enabled] setting. Highlight [Next] and press <ENTER> to continue.

Note

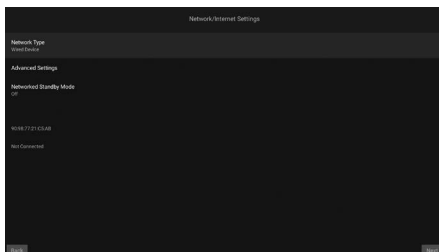
- Power consumption in standby mode increases when this is set to [Reactive].



8 Network/Internet Settings

The menu for a variety of network settings is displayed. Make settings to suit the installation environment.

When you want to set the wired LAN manually, you need to highlight [Advanced Settings], etc. on the screen and press <ENTER> and make each setting. After the settings are completed highlight [Next] and press <ENTER> to continue.



Note

- When the initial setup is completed Home Screen will be displayed if the [Auto Launch] is set to [Disabled].
- You can go to the [Display Settings] → [Signage Settings] → [Power Up Settings] menu to change the Auto Launch setting.
- You can repeat the initial setup process and reset the TV's settings to the factory defaults anytime using the [Shipping] option in the [Display Settings] → [Signage Settings] menu.
- You can access the [Display Settings] menu by pressing the MENU button on the remote.

Specifications

Model No.

98-inch model : TH-98CQE2U

86-inch model : TH-86CQE2U

75-inch model : TH-75CQE2U

65-inch model : TH-65CQE2U

55-inch model : TH-55CQE2U

50-inch model : TH-50CQE2U

43-inch model : TH-43CQE2U

Power Supply

98-inch model

TH-98CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 6.7 A

86-inch model

TH-86CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 3.8 A

75-inch model

TH-75CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 2.7 A

65-inch model

TH-65CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 2.6 A

55-inch model

TH-55CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 1.9 A

50-inch model

TH-50CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 1.7 A

43-inch model

TH-43CQE2U: 110 V – 127 V ~ (110 V – 127 V alternating current), 60 Hz, 1.8 A

Power off with the Main power switch

0 W

Stand-by condition

0.5 W (Power Mode: Eco)

Power Consumption*1

98-inch model

TH-98CQE2U: Approx. 445 W

86-inch model

TH-86CQE2U: Approx. 235 W

75-inch model

TH-75CQE2U: Approx. 170 W

65-inch model

TH-65CQE2U: Approx. 160 W

55-inch model

TH-55CQE2U: Approx. 110 W

50-inch model

TH-50CQE2U: Approx. 100 W

43-inch model

TH-43CQE2U: Approx. 110 W

LCD TV panel

98-inch model

98-inch ADS panel (Direct LED backlight),
16:9 aspect ratio

86-inch model

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

75-inch model

75-inch ADS panel (Direct LED backlight),
16:9 aspect ratio

65-inch model

65-inch ADS panel (Direct LED backlight),
16:9 aspect ratio

55-inch model

55-inch ADS panel (Direct LED backlight),
16:9 aspect ratio

50-inch model

50-inch VA panel (Direct LED backlight),
16:9 aspect ratio

43-inch model

43-inch ADS panel (Direct LED backlight),
16:9 aspect ratio

Screen size

98-inch model

2 158.8 mm (W) × 1 214.3 mm (H) × 2 476.9 mm (diagonal) / 84.99" (W) × 47.80" (H) × 97.51" (diagonal)

86-inch model

1 895.0 mm (W) × 1 065.9 mm (H) × 2 174.2 mm (diagonal) / 74.60" (W) × 41.96" (H) × 85.60" (diagonal)

75-inch model

1 649.6 mm (W) × 927.9 mm (H) × 1 892.7 mm (diagonal) / 64.94" (W) × 36.53" (H) × 74.51" (diagonal)

65-inch model

1 428.4 mm (W) × 803.5 mm (H) × 1 638.9 mm (diagonal) / 56.23" (W) × 31.63" (H) × 64.52" (diagonal)

55-inch model

1 209.6 mm (W) × 680.4 mm (H) × 1 387.8 mm (diagonal) / 47.62" (W) × 26.78" (H) × 54.63" (diagonal)

50-inch model

1 095.8 mm (W) × 616.4 mm (H) × 1 257.3 mm (diagonal) / 43.14" (W) × 24.26" (H) × 49.50" (diagonal)

43-inch model

941.1 mm (W) × 529.4 mm (H) × 1 079.8 mm (diagonal) / 37.05" (W) × 20.84" (H) × 42.51" (diagonal)

No. of pixels

8 294 400

(3 840 (Horizontal) × 2 160 (Vertical))

Dimensions (W × H × D)

98-inch model

TH-98CQE2U: 2 216 mm × 1 271 mm × 91 mm (including remote controller sensor: 1 288 mm) 87.25" × 50.02" × 3.55" (including remote controller sensor: 50.67")

86-inch model

TH-86CQE2U: 1 929 mm × 1 100 mm × 80 mm (top of VESA NUT: 55 mm) (including remote controller sensor: 1 116 mm) 75.91" × 43.28" × 3.13" (top of VESA NUT: 2.15") (including remote controller sensor: 43.94")

75-inch model

TH-75CQE2U: 1 684 mm × 968 mm × 100 mm (top of VESA NUT: 73 mm) (including remote controller sensor: 984 mm) 66.28" × 38.09" × 3.92" (top of VESA NUT: 2.89") (including remote controller sensor: 38.74")

65-inch model

TH-65CQE2U: 1 456 mm × 835 mm × 96 mm / 57.32" × 32.84" × 3.78" (including remote controller sensor: 853 mm / 33.55")

55-inch model

TH-55CQE2U: 1 236 mm × 710 mm × 68 mm / 48.64" × 27.92" × 2.67" (including remote controller sensor: 728 mm / 28.63")

50-inch model

TH-50CQE2U: 1 121 mm × 646 mm × 68 mm / 44.12" × 25.43" × 2.66" (including remote controller sensor: 664 mm / 26.14")

43-inch model

TH-43CQE2U: 964 mm × 555 mm × 68 mm / 37.92" × 21.85" × 2.66" (including remote controller sensor: 573 mm / 22.56")

Mass

98-inch model

TH-98CQE2U: Approx. 99.4 kg / 219.2 lbs net

86-inch model

TH-86CQE2U: Approx. 61.7 kg / 136.1 lbs net

75-inch model

TH-75CQE2U: Approx. 36.8 kg / 81.2 lbs net

65-inch model

TH-65CQE2U: Approx. 24.6 kg / 54.3 lbs net

55-inch model

TH-55CQE2U: Approx. 17.9 kg / 39.5 lbs net

50-inch model

TH-50CQE2U: Approx. 13.4 kg / 29.6 lbs net

43-inch model

TH-43CQE2U: Approx. 10.3 kg / 22.7 lbs net

Operating condition

Temperature

0 °C – 40 °C (32 °F – 104 °F)*2

Humidity

20 % – 80 % (no condensation)

Operating Time

24 hours/day (TH-98CQE2U)

16 hours/day (TH-86/75/65/55/50/43CQE2U)

Connection terminals

HDMI IN 1

HDMI IN 2

HDMI IN 3

HDMI IN 4

TYPE A Connector*3 × 4 (Supports 4K)

Compatible with HDCP 2.2

Audio signal:

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

AUDIO OUT

Stereo mini jack (M3) (φ 3.5 mm) × 1, 0.5 Vrms

Output: Variable (-∞ to 0 dB)

(1 kHz 0 dB input, 10 kΩ load)

IR IN

Stereo mini jack (M3) (ϕ 3.5 mm) \times 1

USB

USB connector \times 1, TYPE A
DC 5 V / max 0.9 A, Compatible with USB 3.0
USB connector \times 1, TYPE A
DC 5 V / max 0.5 A, Compatible with USB 2.0
USB connector \times 1 (Internal), TYPE A
DC 5 V / max 0.5 A, Compatible with USB 2.0
USB connector \times 1, TYPE C
DC 5 V / max 3.0 A,
Compatible with USB 3.0, Compatible with DP
Alt Mode

LAN

RJ45 \times 1:
For network connection, compatible with PjLink
Communication method:
RJ45, 10BASE-T / 100BASE-TX

SERIAL IN

External Control Terminal
Stereo mini jack (M3) (ϕ 3.5 mm) \times 1:
RS-232C compatible

microSD

microSD/SDHC/SDXC: MAX 1 TB

SPDIF Optical Out port

Sound

Speakers

98-inch model 86-inch model 75-inch model :

100 mm \times 25 mm / ϕ 15 mm \times 4 pieces

65-inch model 55-inch model 50-inch model

43-inch model :

100 mm \times 25 mm / ϕ 15 mm \times 2 pieces

Audio Output

98-inch model 86-inch model 75-inch model :

24 W [12 W + 12 W] (10 % THD)

65-inch model 55-inch model 50-inch model :

20 W [10 W + 10 W]

43-inch model :

16 W [8 W + 8 W]

Remote Control Transmitter

Power source

DC 3 V (AA Size batteries \times 2)

Operating range

Approx. 7 m (22.9 ft)

(when operated directly in front of remote control
sensor using IR Sensor of accessory parts)

Mass

Approx. 112 g / 3.96 oz (including batteries)

Dimensions (W \times H \times D)

51 mm \times 161 mm \times 27 mm / 2.00" \times 6.34" \times 1.07"

Wireless LAN

Standard compliance and Frequency range*4

IEEE802.11a/n/ac

5.15 GHz – 5.35 GHz, 5.47 GHz – 5.85 GHz

IEEE802.11b/g/n

2.400 GHz – 2.4835 GHz

Security

WPA2 / WPA3

Bluetooth wireless technology*5

Standard Compliance

Bluetooth 5.1

Frequency Range

2.402 GHz – 2.480 GHz

*1: Shipping condition

*2: Environmental temperature to use this unit at high
altitudes (1 400 m (4 593 ft) and higher and below
2 800 m (9 186 ft) above sea level): 0 °C to 35 °C
(32 °F to 95 °F)

*3: VIERA LINK is not supported.

*4: The frequency and channel differ depending on the
country.

*5: Not all the Bluetooth compatible devices are
available with this TV.

Note

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

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At least three (3) years from delivery of this product, Panasonic Connect Co., Ltd. will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V2.0, LGPL V2.0, LGPL V2.1, LGPL V3.0 or the other licenses with the obligation to do so, as well as the respective copyright notice thereof.

Contact Information:

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

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This product is licensed under the AVC Patent Portfolio License, VC-1 Patent Portfolio License and MPEG-4 Visual Patent Portfolio License for the personal use of a consumer or other uses in which it does not receive remuneration to (i) encode video in compliance with the AVC Standard, VC-1 Standard and MPEG-4 Visual Standard ("AVC/VC-1/MPEG-4 Video") and/or (ii) decode AVC/VC-1/MPEG-4 Video that was encoded by a consumer engaged in a personal activity and/or was obtained from a video provider licensed to provide AVC/VC-1/MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.

**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 Connect 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, switches, buttons, etc. This warranty does not apply to accessories of the product, installed, altered, repaired or misused, or any part, in the definition of PCI, effects 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
P2/SD Cards	(Content not covered)	N/A
Video Heads	1 year or 2,000 hrs. (priorated) whichever comes first	1 year or 2,000 hrs. whichever comes first
D5 Video heads	1 year or 1,000 hrs. whichever comes first	1 year or 1,000 hrs. whichever comes first
Maintenance Items	2 years	2 years
Colour Camera CCD 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
1 LCD Projectors above	3 years or 2,500 hrs. whichever comes first	3 years or 2,500 hrs. whichever comes first
*LCD Projectors below	3 years or 1,500 hrs. whichever comes first	3 years or 1,500 hrs. whichever comes first
*LCD ANSI Luminis Projector Lamps	50% of the rated lamp life or 1 year. Whichever comes first	50% of the rated lamp life or 1 year. Whichever comes first
All Plasma displays	2 years (burn-in not covered)	2 years
103 inch Plasma displays	1 year plus balance (if any) of the original Manufacturer's Limited Warranty. (Content not covered)	3 years
Hard Drive Disk Unit	3 years	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.





This symbol indicates separate collection of waste electrical and electronic equipment. More detailed information is contained in "Operating Instructions for advanced features (PDF format)".



This symbol indicates separate collection of waste batteries. More detailed information is contained in "Operating Instructions for advanced features (PDF format)".

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:

<https://holdings.panasonic/global/corporate/sustainability.html>

or call 1-888-769-0149.

Customer's Record

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

Model Number

Serial Number

Panasonic Connect 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

Panasonic Connect Co., Ltd.

4-1-62 Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

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

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