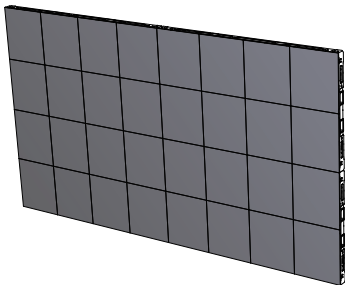


Operating Instructions  
Functional Manual

LED Display    Commercial Use

English

Model No.    TL-55LV12AW



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Read before use

Please read “LED Manager LV” for even more detailed content, such as descriptions of how to configure and use the unit.

For information on how to download “LED Manager LV”, please refer to the following URL (<https://docs.connect.panasonic.com/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.





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

**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 a container filled with water or other liquid on top of the unit.**

**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.

**WARNING:**  
**THIS PRODUCT CONTAINS A COIN BATTERY**



- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur in 2 hours or less if swallowed or placed inside any part of the body.
- The battery is hazardous, **KEEP** new and used batteries **OUT OF REACH** of **CHILDREN**
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

# Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Clean only with dry cloth.
- 6) Install in accordance with the manufacturer's instructions.
- 7) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8) 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.
- 9) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Only use attachments / accessories specified by the manufacturer.
- 11) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 12) 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.
- 13) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

# FCC STATEMENT

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## FCC CAUTION:

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

Supplier's Declaration of Conformity

Model No.

TL-55LV12AW

Responsible Party:

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, New Jersey

07102-5490

Contact Source:

Panasonic Projector & Display Americas LLC

1-855-772-8324

General Contact:

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

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

## 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](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

## For European Union Only



This CE mark covers the battery(ies) supplied with the product and indicates that the battery(ies) comply with the requirements of the Battery Regulation (EU) 2023/1542.

# 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 a container filled with water or other liquid on top of the unit.  
Do not place any objects on top of the device.
- 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.

## WARNING:

This equipment is compliant with Class A of EN55032/ CISPR32.

In a residential environment this equipment may cause radio interference.

## IMPORTANT INFORMATION: Stability Hazard

Never place the unit in an unstable location. The unit may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the unit.
- Only using furniture that can safely support the unit.
- Ensuring the unit is not overhanging the edge of the supporting furniture.
- Not placing the unit on cloth or other materials that may be located between the unit and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the unit or its controls.

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

**IMPORTANT: THE MOULDED PLUG  
FOR YOUR SAFETY, PLEASE READ THE  
FOLLOWING TEXT CAREFULLY.**

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

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

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

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

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

Do not cut off the mains plug.

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

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

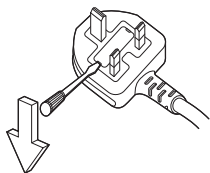
If the socket outlet in your home is not suitable, get it changed by a qualified electrician.

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

**WARNING : — THIS UNIT MUST BE EARTHED**

**How to replace the fuse.**

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



# Safety Precautions

## WARNING

### ■ Setup

**Please have the installation performed by qualified service personnel.**

Improper installation may result in death or serious injury.

- Use only the specified optional wall-mount bracket or a wall-mount bracket that complies with the VESA standard (VESA 400 × 400) when mounting the unit on a wall.
- To prevent the wall-mounted unit from falling, check that the wall in the mounting area is sufficiently strong to support the weight of the unit and the Wall Mounts.
- When the product is no longer in use, promptly have it removed by qualified service personnel.

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

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from children. The remote control transmitter (including a battery) is for the installation and is not intended to be used in locations where it may be accessed by children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by children, creating the potential risk of suffocation.

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

- The unit 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.

**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.

### Cautions for Wall Installation

- The installation should be performed by an installation professional. Installing the unit incorrectly may lead to an accident that results in death or serious injury.
- Before installation, be sure to check if the mounting location has enough strength to support the weight of the unit and the wall hanging bracket for anti drop.
- If you terminate the use of the product, ask a professional to remove it promptly.

**Ensure that the installation location is strong enough for this unit when it is used for a long term.**

- If the installation location is not strong enough for this unit when it is used for a long term, this unit may fall and cause injury.

**To avoid getting accidentally squeezed between the unit and the wall or a mounting fixture, the installer should make sure that there is nobody in the surrounding area before starting the unit installation or removal work.**

- Injury may be caused by having your fingers or hands accidentally squeezed between objects.

## ■ When using the unit

**The unit is designed to operate on 110 – 240 V AC, 50/60 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 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 unit 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 unit.**

- Do not push or allow to drop anything metallic or flammable into the cord holes, etc., of the unit. Doing so may cause fire or electric shock.

**Do not attempt to disassemble or alter the unit in any way.**

- High voltages which can cause fire or electric shocks are present inside the unit. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.
- The unit may have damage or fall, and cause injury.

**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.

**Make sure that the mains plug is fully inserted into the socket outlet.**

- Incomplete insertion may cause electric shock or fire due to heating.
- Do not keep using a damaged mains plug or a loose socket outlet.

**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.

**All parts and accessories included in the product package should be stored out of children's reach.**

- These items are detrimental to human health if accidentally swallowed.
- Please contact a doctor immediately in case you doubt that the child may have swallowed it.

**Do not allow anyone wearing a cardiac pacemaker or implanted medical electronic device to approach this unit.**

- The magnetic force of a magnet in this unit may affect the device.  
If a person wearing such a device feels unwell near this unit, let the person consult a doctor.

## CAUTION

**Do not place the unit in a narrow, poorly ventilated place.**

**Do not place the unit upside down.**

**Do not install the unit, making its front face upward or downward.**

**Do not place the unit in contact with fabric material, for example under a table cloth or on a carpet or bedclothes.**

- Heat buildup inside the unit may lead to fire or mechanical failure.

**Install the mounting screws and power cable in such a way that they will not make contact with the inside parts of the wall.**

- Electric shocks may result from contact with any metal objects inside the wall.

**Do not pull or snag the connection cable.**

- This may cause the unit to fall or tip over, resulting in injury.
- Pay special attention to children.

**Do not fit at any locations subject to humidity, dust, smoke, steam or heat.**

- This may have an adverse effect on the unit and cause fire or electric shock.

**Do not place the unit in a place where it can be exposed to the weather, salt damage, or corrosive gas.**

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

**The installer should avoid getting their hands or fingers pinched during installation.**

- Such pinching could lead to Injury.

**Do not touch the LED Module with bare hands.**

- You may have low-temperature burns or the LED Module may get faulty or malfunction.
- The LED Module may go wrong due to static electricity.

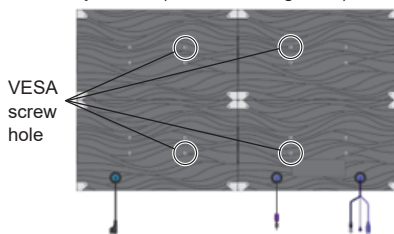
**Do not bring a magnetic card or magnetic recording medium near this unit.**

- Data in it may be damaged and unreadable.

**Be sure to use a VESA-compliant wall-mount bracket when installing this unit vertically.**

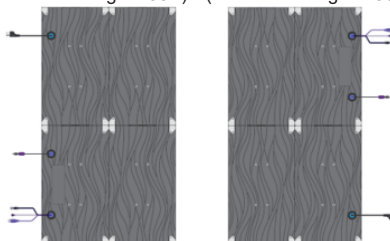
- Vertical installation using the optional wall-mount bracket TY-WMT1 is not supported.

**Landscape** (Installation Angle: 0 °)



**Portrait**

(Installation Angle: -90 °) (Installation Angle: +90 °)



**We do not assume responsibility for any accident or damage that is caused as a result of attempting to install or handle the unit in any way not specified in our operating instructions or by using any part or material other than the ones specified.**

**When disconnecting the power supply cord, make sure to do so by holding the mains plug (when disconnecting from the socket outlet).**

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

**If the unit needs to be moved, make sure to do so after disconnecting the power supply cord and all the device connection cables and also removing any anti-tip/anti-drop anchor installed.**

- If the unit 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 unit.**

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

**Use only specified batteries.**

**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.

**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.

**If the battery fluid leaks, do not touch it with bare hands, and take the following measures if necessary.**

- Battery fluid on your skin or clothing could result in skin inflammation or injury.  
Rinse with clean water and seek medical advice immediately.
- Battery fluid coming in contact with your eyes could result in loss of sight.  
In this case, do not rub your eyes. Rinse with clean water and seek medical advice immediately.

**Do not subject the unit to excessive force or impact.**

- Doing so may result in damage to the unit and/or personal injury.

**Ask a professional to unpack/transport this unit.**

**Do not use the components for any unit not specified in the catalog.**

- The unit may fall and cause injury.

**If the unit is deformed or cracked, do not use it.**

- It may tumble over and become damaged, resulting in injury.  
In case the unit is damaged, contact your dealer immediately.

**Install the unit on a level and stable surface.**

- It may fall, get damaged, and cause injury.

**When assembling, be sure to securely fasten all screw fastening points.**

- If assembled improperly, the unit may not have enough strength, tumble over, and become damaged, resulting in injury.
- The tightening torques are specified in the assembly instructions.

**We recommend fitting the cover frames (TY-CF55LVH1, TY-CF55LVV1, TY-CF55LVC1), sold separately as options, to reduce the frequency of regular maintenance and prevent malfunctions due to the entry of foreign objects.**

- Fire and malfunction can result if foreign objects get into the unit.
- Take care with the installation environment.

**Regularly inspect the product for deformation, cracks, and loose screws. Consult your dealer if you discover a problem.**

# Precautions for use

## ■ Cautions when installing

**Follow the instructions below when installing the unit.**

**Even before expiration of the warranty period, we do not assume responsibility for any damage arising from installing the unit in an inappropriate environment.**

**This unit must be installed in an indoor location. Even inside a building, avoid installing the unit in the following types of locations:**

- Where the unit is exposed to the weather
- Where the unit may be subject to drastic changes in temperature or humidity, for example near an air conditioning device
- Where the unit may receive vibration or impact
- Near a fire sprinkler or sensor

**Do not install the unit where it may receive vibration or impact.**

- Vibration or impact on the unit may damage its internal parts and can lead to mechanical failure. Choose a place free from vibration or impact to install the unit.

**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.

**Watch out for mutual interference between devices.**

- Place the unit away from risks of video distortion or audio noises due to electromagnetic interference.

**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)

**Make sure to allow sufficient air flow around and through the unit so as not to exceed these temperature ranges.**

- Service life of the unit components may be shortened or mechanical failure may be caused.

**Install the unit out of direct sunlight and also away from heat-generating devices.**

- Even in an indoor location, direct sunlight can cause the LED module temperature to increase to result in mechanical failure.
- Cabinet deformation or failure can be caused.
- Excessive light or heat can cause mechanical failure or other problems arising from increase in the device temperature.
- Deterioration of video quality may be experienced.

**Device connection should be made with the devices in de-energized condition.**

- Connect the devices according to their respective manuals.

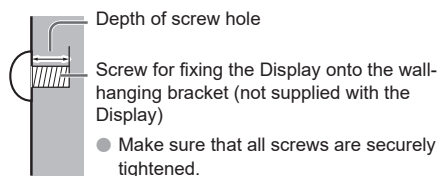
**Do not grab the LED Module.**

- Do not push the LED Module hard or with a sharp object. Applying strong force to the LED Module may cause it to break.

**Securing a clearance distance around the installed unit**

- If the unit is installed inside a protective casing or enclosure, make sure to offer adequate ventilation by providing a cooling fan or air vents so that the temperature around the unit (inside the casing or enclosure) including the front of the LED module will be kept within the specified allowable operating temperature range.

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



| Screw pitch for installation | Depth of screw hole | Screw (qty) |
|------------------------------|---------------------|-------------|
| 400 mm × 400 mm              | 10 mm               | M6 (4)      |

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

**If brackets other than the optional brackets specified are used, proper installation cannot be guaranteed.**

- Install the optional brackets according to the installation procedures described in this document.  
\* Consult the dealer where you purchased the product for other installation requirements.

## ■ Note for connection

### Removing and inserting the power supply cord and connection cables

- If the power supply cord and connection cables are difficult to remove and insert after installing on the wall, connect them to the main unit before installing on the wall.
- Be careful not to allow the cables to be entangled. After installation is completed, insert the power plug to the outlet.

## ■ When using

### Parts of the unit may become hot during use.

- Parts of the unit housing may become hot, but this is normal and does not affect unit performance or quality.

### Dots that are always lit or do not light up may appear on the screen.

- Although the LED module is made with high-precision technology, such dots may appear on the screen. Please note that such dots are not faulty.

### The unit may experience burn-in.

- If still images are displayed for a long period of time, the unit may experience burn-in.
- Dirt or other foreign matter on the LED module may make some dots appear unlit.

### Depending on the temperature, humidity, or displayed content, the brightness may get uneven, but it is not a failure.

- It is a phenomenon that occurs on self-luminous panels. The phenomenon may occur if still images remain displayed for a long time.

## Notes on the LED Module surface

- Fingerprints or dirt on the LED Module surface will lead to a decrease in image quality. Handle with care to avoid scratches and dirt on it.
- Do not touch the LED module unnecessarily as this may cause malfunctions or failures.

### Slight differences in black tone may be observed between LED modules.

- This is due to variations in manufacturing conditions and does not indicate a defect.

### Keep an appropriate audio volume so as not to annoy your neighbors.

- Close the window or take other action to protect the peace and quiet of your neighbors. Be especially careful at night where even small sounds carry more clearly than in daytime.

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

- If the unit is going to be stored without power connection, be sure to store it out of direct sunlight or moisture.

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

- In this case, turn off the power of the unit 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.

### Do not adhere tape or stickers to the display panel of the unit.

- The unit surface will become soiled.

### Do not keep the unit in contact with a rubber or soft plastic material for an extensive period of time.

- Unit deterioration may be caused.

### Deterioration over time may affect the brightness and color of LED modules.

## ■ Connection via RJ45 terminals

Using the unit in a place where static charges easily build up should be avoided.

- You may experience frequent communication interruptions when the unit is being used in an area where static charges tend to build up, for example on a carpet. If this happens, eliminate the suspected cause of the static charge and other potential noise-generating factors, and then turn off the unit and all the devices connected to it and turn them on again.

**Strong radio interference from a broadcast station or a radio communication device can prevent the unit from functioning correctly.**

- If there is a system or device nearby that generates strong radio signals, position the unit as far away from such device as possible and/or cover the unit's LAN cable with a length of metal foil or metal conduit which is grounded at both ends.

## ■ 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.**

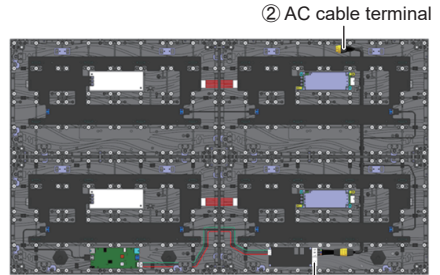
- Set a password for the LAN control and restrict the users who can log in.
- Make your password difficult to guess as much as possible.
- Change your password periodically.
- Panasonic Projector & Display Corporation or its affiliate companies will never ask for your password directly. Do not divulge 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.

## ■ Notes on the AC IN terminal on the power board and the AC cable terminal inside the cabinet

Connect the supplied power supply cord to the AC IN terminal on the power board indicated by ① in the following diagram, then connect the mains plug to a socket outlet.

Connect the AC cable terminal indicated by ② in the following diagram to another display when expanding the system.

- A connection to an unspecified device may cause heat generation, resulting in malfunction or fire.



① AC IN terminal on the power board

## ■ Cleaning and maintenance

**Before cleaning the unit, make sure that the mains plug is disconnected from the socket outlet and double-check that the unit is not energized.**

**To remove dirtiness on the unit (except for the LED Module surface), wipe gently with soft antistatic cloth (cotton fabric or flannel).**

### Note

- Static charges may cause electrical circuit failure.
- Wiping the unit surface with stiff cloth or rubbing the surface hard may cause mechanical failure.

### Use of chemically impregnated wipes

- Follow the instructions provided with the wipe when using the wipe on the unit.

**Do not spray or apply volatile liquid on the unit such as insecticide, benzene or paint thinner.**

- Exposure to volatile liquid may cause failure or mechanical damage of the unit and may also damage its surface coating.

**Do not put alcohol on the surface of the LED Module.**

- The LEDs may get faulty.

**Remove dust or dirt from unit airways such as the air vents.**

- 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. Do not disassemble the product for disposal.**

# Accessories

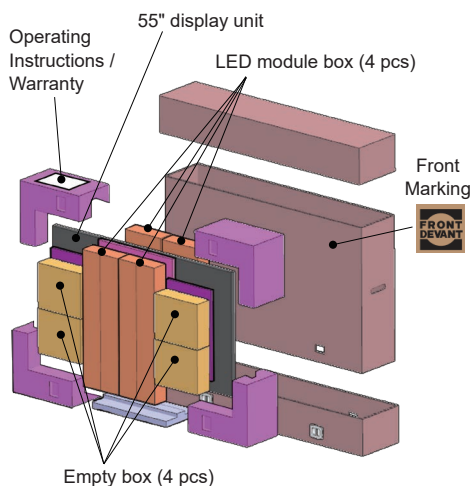
## Before You Begin

The main unit and accessories are packed as shown below.

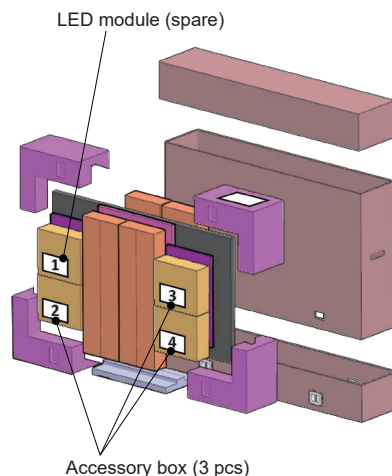
Small accessories are stored in the packing boxes attached to the rear of the main unit.

The packing boxes are labeled 1 to 4 as shown in the figure.

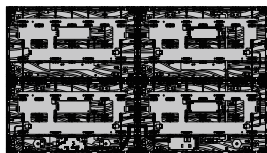
## Front



## Rear



## 55" display unit



## Supplied accessories

Check that you have the accessories and items shown. The number shown in < > is the quantity of the item included in the package.

### ■ LED module box (4 pcs)

#### LED Module <32>

- TY-MD12CS1



### ■ Accessory box 1

#### LED Module (spare) <1>

- TY-MD12CS1

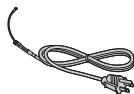


### ■ Accessory box 2

#### Power supply cord

For connection to the socket outlet for US <1>

- DPVF5272ZA/X1



#### Power supply cord

For connection to the socket outlet for UK <1>

- DPVF5273ZA/X1



#### Power supply cord

For connection to the socket outlet for EU <1>

- DPVF5274ZA/X1



### ■ Accessory box 3

#### RJ-45 cable <1>

For system expansion (Approx. 1.2 m)

- DPVF5275ZA/X1



#### HDMI cable <2>

For system expansion (Supports 2K)

- DPVF5276ZA/X1

Approx. 1.8 m <1>

- DPVF5277ZA/X1

Approx. 0.7 m <1>

\* Not used for input.

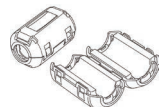


#### Ferrite core <4>

For system expansion HDMI cables

(1.8 m, 0.7 m)

- DPVF5278ZA/X1



#### USB-A to USB-C cable <1>

For PC connection (Approx. 2.0 m)

- DPVF5279ZA/X1



#### Remote Control Transmitter <1>

- DPVF5281ZA/X1

\* A CR2025 coin battery is inside this remote control transmitter.



#### External IR receiver cable <1> (Approx. 1.5 m)

- DPVF5280ZA/X1



## ■ Accessory box 4

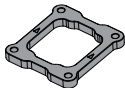
### Connector plate (2 holes) <4> For system expansion

- DPVF5282ZA/X1



### Connector plate (4 holes) <2> For system expansion

- DPVF5283ZA/X1



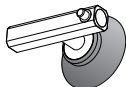
### M4-12 screw <16> For system expansion

- DPVF5284ZA/X1



### LED module removing tool <1>

- DPVF5285ZA/X1



### Hex wrench (HEX 3) <1>

- DPVF5286ZA/X1



### Hex wrench (HEX 5) <1>

- DPVF5287ZA/X1



### Cable holder <3>

- DPVF5288ZA/X1



### Cable clamp <3>

- DPVF5289ZA/X1

\* They are shipped attached to the cable holder.



## M4-8 screw <6>

### Cable clamp screws

- DPVF5290ZA/X1

\* They are shipped attached to the cable holder.



### Wire grommet <3> (8 mm hole diameter)

- DPVF5291ZA/X1



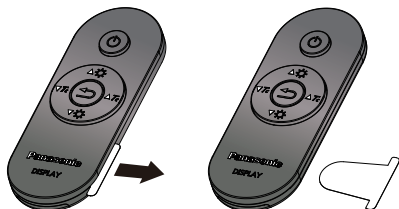
### Attention

- The remote control transmitter cannot be used if you do not connect the supplied external IR receiver cable to the unit.
- Store small parts in an appropriate manner, and keep them away from 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.

## How to start using the remote control transmitter and replace the battery

### How to use the remote control transmitter

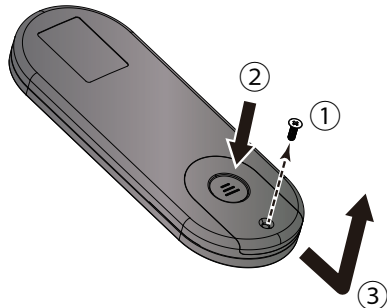
To use the remote control transmitter, pull the insulation sheet out as shown in the illustration.



- Discard the insulation sheet as plastic trash.
- Keep the insulation sheet away from children.

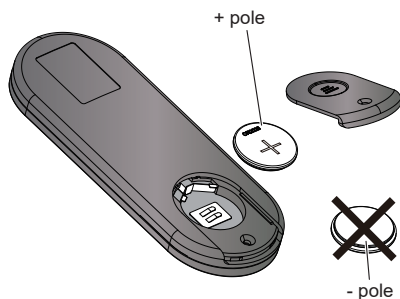
### How to replace the battery

- ① Remove the screw.
- ② Press on the depression in the cover and slide down.
- ③ Take the cover off.



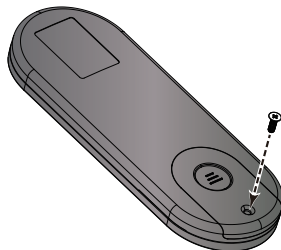
- You will use the screw again so keep it safe.
- Keep the screw and cover away from children.

Take the coin battery (CR2025) out and replace it with a new one.



- Insert so the + pole is visible.
- Do not use coin batteries other than the type specified.
- Insert the new coin battery so that its poles are facing the correct way.
- Used coin batteries should have their + poles and - poles insulated with a cellophane or plastic clear tape, then disposed of in the collection bins stipulated for this purpose.
- Keep the coin battery away from children.

### Insert the screw and close the cover.



- Close the cover by pressing down on it while sliding up.

#### Note

- If the battery is inserted incorrectly, leaks and corrosion may damage your remote control transmitter.
- Consider the environment when disposing of batteries.

### Take note of the following points:

1. Do not charge, disassemble, or incinerate used batteries.
2. Do not disassemble batteries or put them into fire.  
Furthermore, do not store in high-temperature locations, such as in locations exposed to direct sunlight or next to fires.
3. Do not leave the remote control within reach of children. They may accidentally swallow the button battery.

# Separately sold optional items

Request for a professional service to install these items.

## LED module:

- TY-MD12CS1

## Wall mount:

- TY-WMT1

## Wall-mounting installation jig:

- TY-WMT1J

## Cover frame horizontal:

- TY-CF55LVH1

## Cover frame vertical:

- TY-CF55LVV1

## Cover frame corner:

- TY-CF55LVC1

### Note

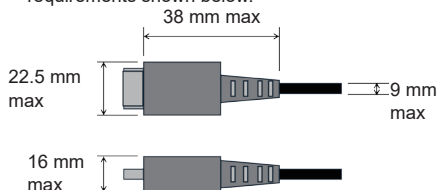
- For best performance and safety, contact the seller or other professional service provider to have these items installed.
- At the end of its use, the unit should be swiftly removed by a professional service qualified for the work.
- The part numbers of the optional items are subject to change without prior notice.

# Preparation

## Prepare the following parts (commercially available)

### HDMI cable (for input of video signals)

- Select an HDMI cable that meets the dimensional requirements shown below.



### LAN cable (for PC control)

- When using the USB-A to USB-C cable (supplied), the IR receiver cable (supplied), and a LAN cable at the same time, a CAT5e LAN cable (6 mm or less in diameter) is recommended.

### Screws (screw diameter: M10, 4 places)

- Used when attaching the optional wall mounts to the wall.

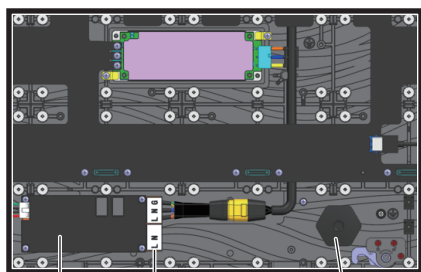
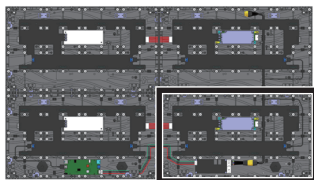
# Assembly, Installation, and Connection

## Before installation

- Before starting work, also carefully read the operating instructions for the devices to be connected to this unit.
- Turn off the power of all devices before starting the work.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
  - 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.
- 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.
- Some temporary color disturbance may occur in images during times when there is a disruption to the output synchronizing signal from the PC or video device, such as when settings are changed for image output.
- 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.
- Insert the plug of the power supply cord into the socket outlet after fishing all assembly, installation, and connection.

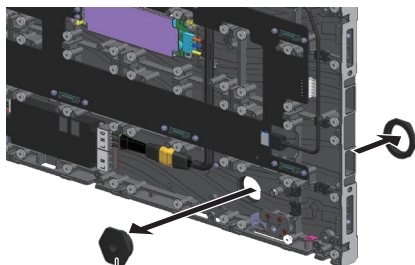
## Connecting and securing the power supply cord

### Front of the unit



Power board  
AC IN terminal  
Power supply cord routing hole

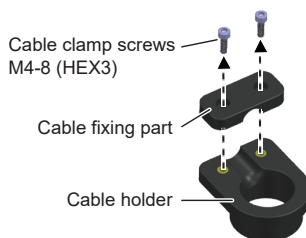
- 1 Remove the closed cap by turning it as you would a screw. (Do not reuse it.)



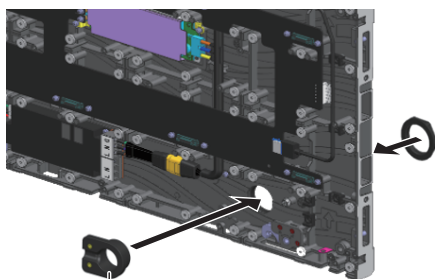
Closed cap

- 2 Attach the cable holder.

- ① Before attaching, remove the cable fixing part.

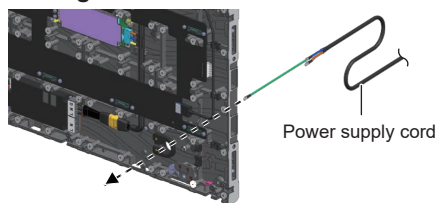


- ② Attach the cable holder by turning it as you would a screw.

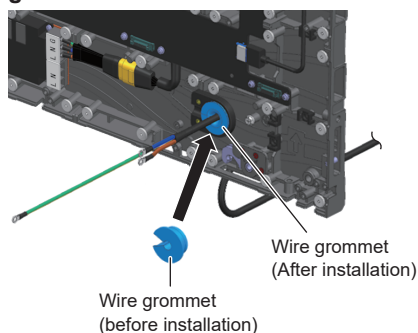


Cable holder

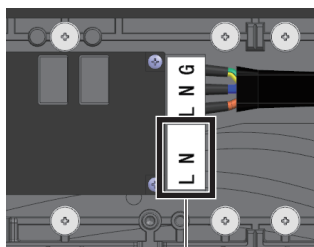
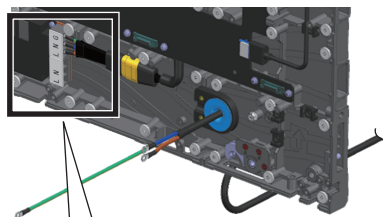
- 3** Pass all ring terminals of the supplied power supply cord through the cable routing hole.



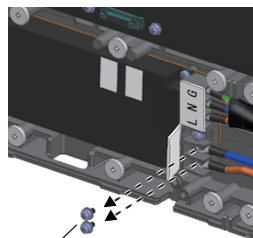
- 4** Widen the slit of the wire grommet ( $\varnothing 8$  mm), pass the power supply cord through the hole, then attach the wire grommet to the cable holder.



- 5** Open the lower AC IN terminal cover on the circuit board, then remove the screws from the N and L terminals.



Lower AC IN terminal cover

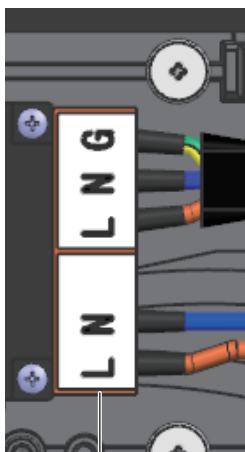
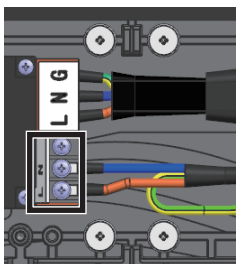


N and L terminal screws

- 6 Connect the power supply cord to the N and L terminals using the terminal screws removed in step 5, then close the terminal cover.**

N terminal: Blue cable  
L terminal: Brown cable

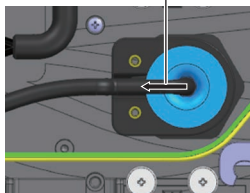
Tightening torque:  
 $0.3 \pm 0.05 \text{ N}\cdot\text{m}$



Close the terminal cover.

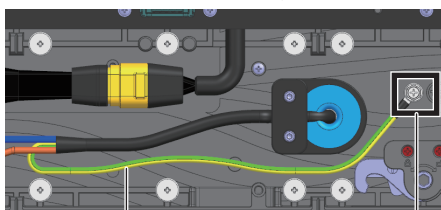
- 7 Fit the power supply cord into the slit in the wire grommet.**

Direction of the slit in the wire grommet



- 8 Remove the grounding screw attached to the cabinet, then secure the grounding wire of the power supply cord with the grounding screw.**

● Do not pull on the power supply cord.



Grounding wire of the  
power supply cord

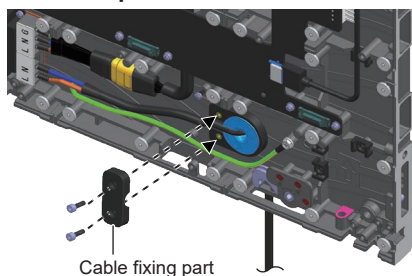
Grounding  
point

Tightening torque:  
 $0.6 \pm 0.1 \text{ N}\cdot\text{m}$

Grounding Screw

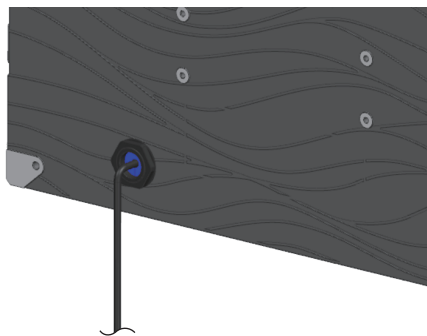


## 9 Secure the power supply cord with the cable clamp.



Tightening torque:  
 $0.3 \pm 0.05 \text{ N} \cdot \text{m}$

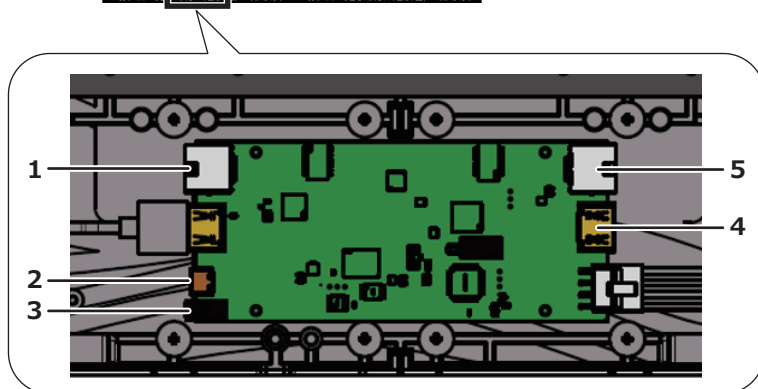
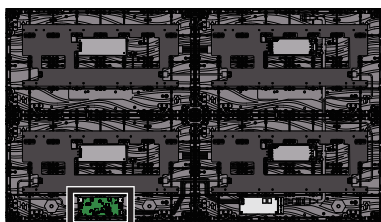
### Rear view



### Note

- Do not use damaged power supply cords. Consult the dealer where you purchased the product if the power supply cord requires repair.
- When disconnecting the power supply cord, be absolutely sure to disconnect the power supply cord plug at the socket outlet first.
- The supplied power supply cord is for this unit exclusive use. Do not use this for other purposes.
- Apply power only after all assembly, mounting, and connections are complete.
- Do not use a conversion plug. Connect the power plug directly to the wall outlet. Using a conversion plug may result in a poor contact of the power plug, which could cause heat generation and possibly result in a fire.

## Connecting to a video device



### 1 LAN input terminal (for PC control)

Used for expanding the system.

### 2 USB-C terminal (for PC control)

Use the supplied USB-A to USB-C cable to connect to a PC with a USB-A terminal.

### 3 Infrared signal input terminal

Connect the external IR receiver cable (supplied) when using the remote control transmitter to control the unit.

### 4 HDMI input terminal

Connect to video equipment with HDMI output.

### 5 LAN output terminal (for system expansion)

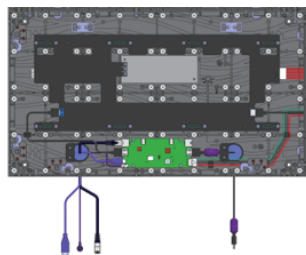
Used for expanding the system.

#### Note

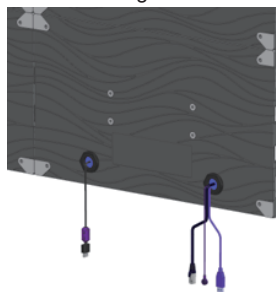
- Prepare the following parts (commercially available).  
Cable for HDMI input  
LAN cable for PC control
- After securing the cables, make sure that each input cable is securely connected.

## ■ Diagrams showing cable connections

### Front view diagram



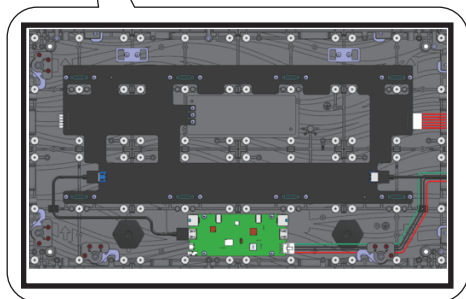
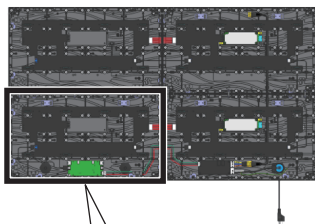
### Rear view diagram



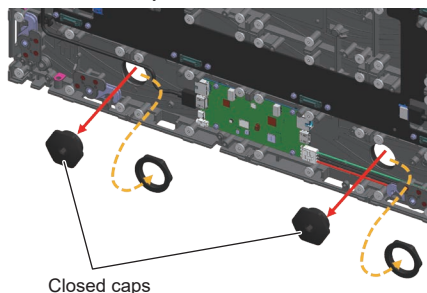
#### Note

- Refer to the procedures in "Connecting and securing the signal cables" for descriptions about how to connect and secure the various signal cables. (see pages 22 to 24)

## Connecting and securing the signal cables

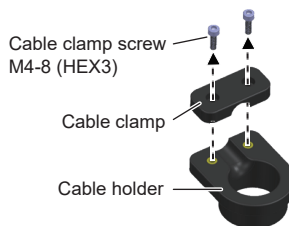


- 1 Unscrew the closed caps (not required once removed) to remove them.

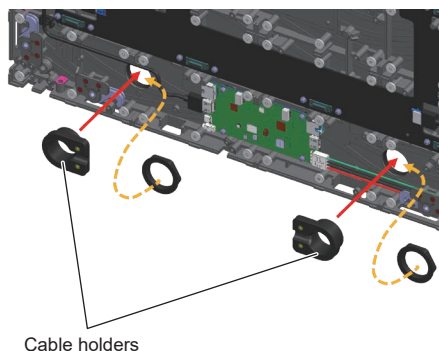


## 2 Attach the cable holders.

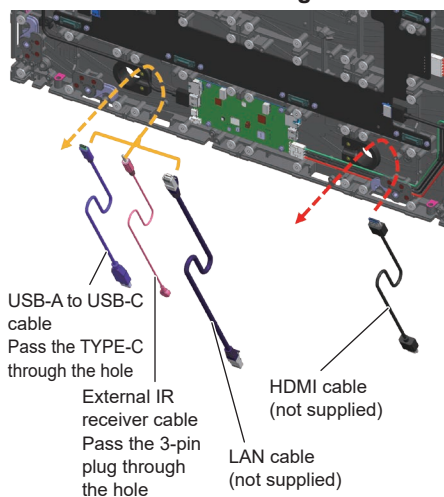
- ① Take off the cable clamp before attaching.



- ② Attach the cable holder by twisting it to secure it.

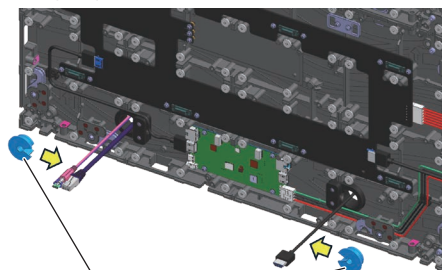


- 3 Pass the cables through the cord holes as shown in the diagram below.



#### 4 Open the slits in the wire grommets (Φ8 mm) and pass the cables through the holes in the grommets, then attach the wire grommets to the cable holders.

- Pay attention to the direction that the slit of the wire grommet faces (the yellow arrow in the below diagram).



Wire grommets

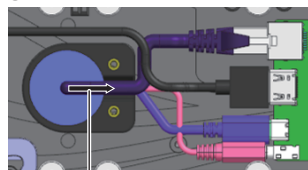
#### 5 Connect each of the cables to their respective terminals on the signal PCB.

LAN input terminal      Signal PCB

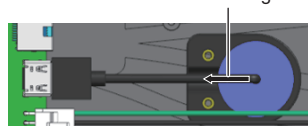


Infrared signal input terminal      USB-C terminal      HDMI input terminal

#### 6 Fit the cables into the slits in the wire grommets.

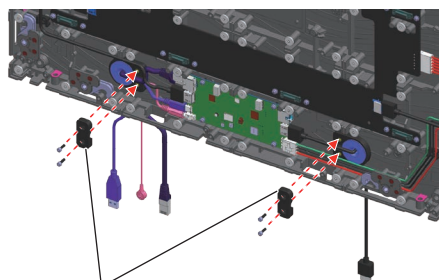


Direction of the slit in the wire grommet



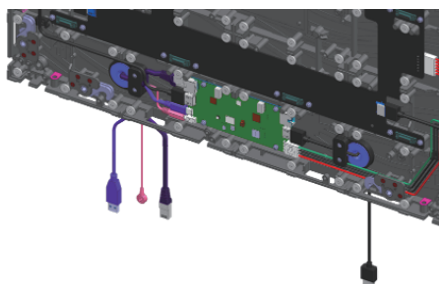
#### 7 Secure the cables with the cable clamps.

- Take care not to pinch the cables with the screw parts of the clamps.

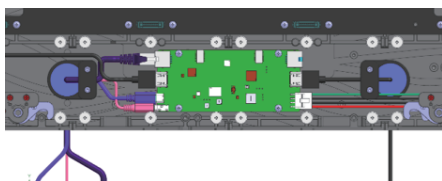


Cable clamps

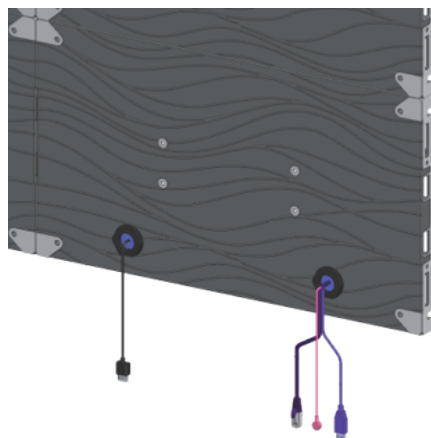
Tightening torque:  
 $0.3 \pm 0.05 \text{ N}\cdot\text{m}$



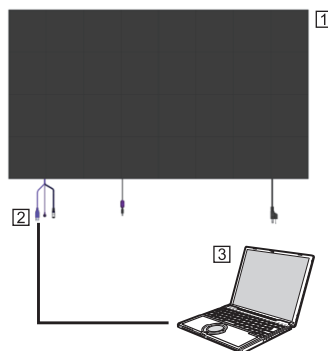
- After securing the cables, confirm that the input cables are firmly connected.



## Rear view

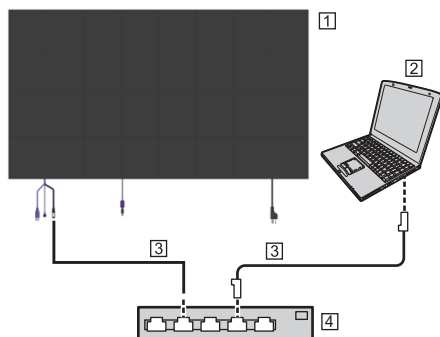


## ■ USB terminal connection example



- ① Display (this unit)
- ② USB-A to USB-C cable (supplied)
- ③ PC

## ■ LAN terminal connection example



- ① Display (this unit)
- ② PC
- ③ LAN cable (commercially available)
- ④ Hub or broadband router

### Note

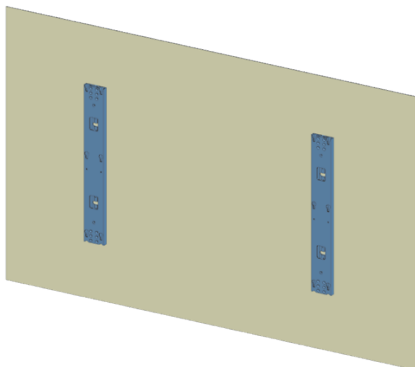
- Make sure the broadband router or hub supports 10BASE-T.
- Touching the LAN terminals with a statically charged hand (body) may cause damage to the device due to its discharge.  
Do not touch the LAN terminals or the metal parts of the LAN cables.
- For instructions on connection, consult your network administrator.

## Methods for installing on a wall

This unit can be installed by using the optional wall mount (TY-WMT1) or by using a commercially available wall mount that is compatible with VESA.

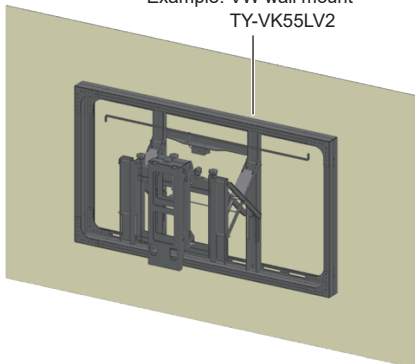
If this is a fresh installation, we recommend installing using the optional wall mount.

### Installation on a wall using optional wall mounts (two sets of TY-WMT1)



### Installation on a wall using VESA holes (screw hole depth 10 mm for M6 screw, pitch 400 mm × 400 mm)

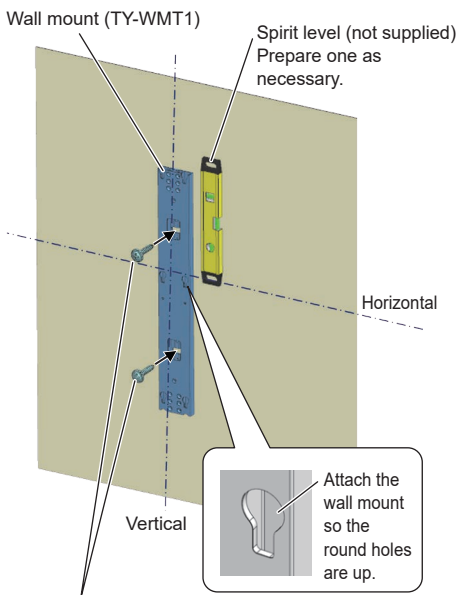
Example: VW wall mount  
TY-VK55LV2



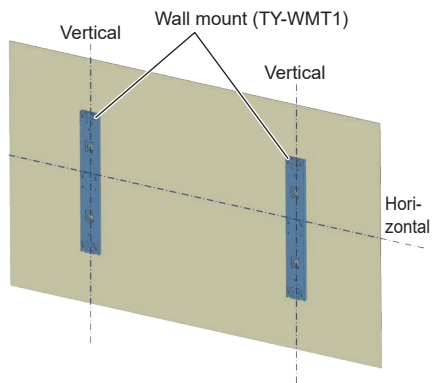
## ■ When using the optional wall mount

### 1 Attaching the wall mounts to a wall.

- ① Use a laser, etc., to mark horizontal and vertical axes on the wall, and install the first wall mount in the specified position.
- ② Secure the wall mount to the installation location using two M10 screws (not supplied).



- ③ Use a similar procedure to install the second wall mount in the specified position. Use the wall-mounting installation jig (TY-WMT1J) to maintain the horizontal distance between the wall mounts, and secure the wall mount using two M10 screws (not supplied).



**Note**

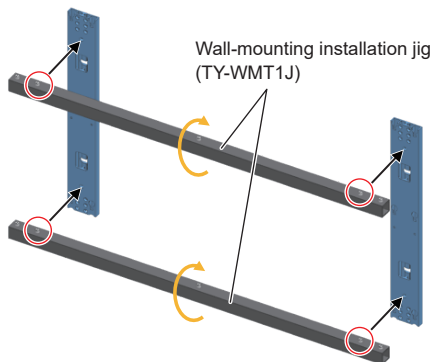
- Install on a wall that is strong enough to support the product.

Guide: Total weight of a 55-inch display Approx. 21 kg  
 Wall mount Approx. 3.5 kg per pair

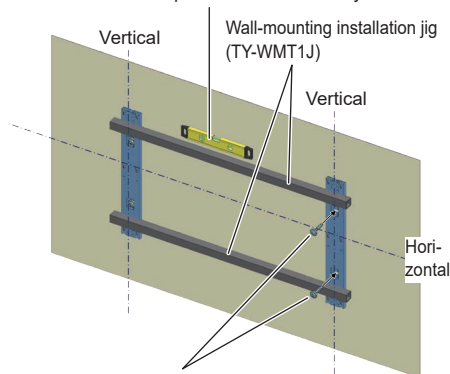
- Ensure the wall surface on which the wall mounts are to be installed is sufficiently flat. As a guide, this should be within 3 mm.
- If the wall is uneven and gaps are apparent between the wall and the wall mounts, take appropriate steps to fill in the gaps, then make sure the wall mounts do not get pushed out of shape when you are securing them to the wall with the screws.

- ④ Put the two positioning pins of the wall-mounting installation jig (TY-WMT1J) into the two left and right positioning holes on the wall mount (TY-WMT1), and while keeping the distance between the wall mounts, secure them in their final positions while confirming the vertical and horizontal axes.

- When installing a 55-inch unit, use the positioning pins second in from the edges of the jig (refer to the red circles in the below diagram).



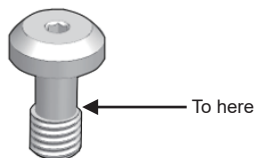
Spirit level (not supplied)  
 Prepare one as necessary.



2 x M10 screws (not supplied)  
 Prepare screws suited to the wall type.

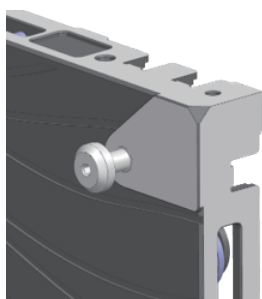
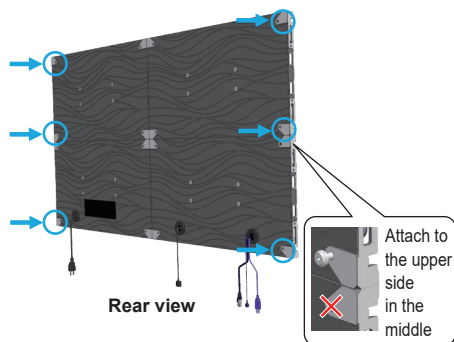
## 2 Attach the supplied hanger pins (DPVF5295ZA/X1) to the wall mounts (TY-WMT1) from the rear side of the main unit in 6 locations.

- Screw in until the thread disappears inside the cabinet.



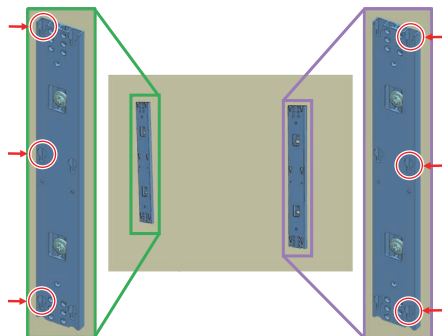
Hanger pin: M8  
(DPVF5295ZA/X1)

- Screw in the supplied hanger pins in the 6 locations indicated by the blue arrows in the following diagram, from the rear side.

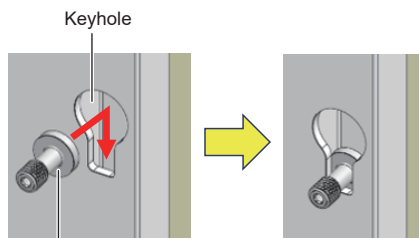


In the attached state

## 3 Insert the hanger pins you attached to the main unit into the keyholes on the wall mounts (the 6 holes indicated by the red arrows in the following diagram) to attach the main unit.



- Once inserted through the round parts of the holes, slide down.

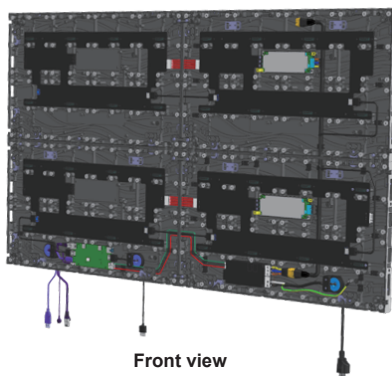


Slide down after inserting

## 4 Tighten the hanger pins from the front side of the main unit.

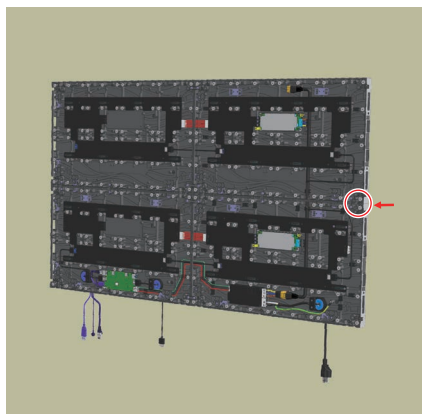
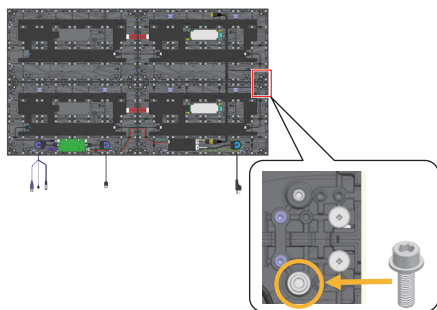
- When tightening from the front, be aware that the tightening direction will be counterclockwise.

Tightening torque:  $6.2 \text{ N} \cdot \text{m} \pm 0.1 \text{ N} \cdot \text{m}$



**5 Tighten the retaining bolt (M6×25, supplied with TY-WMT1) at the location indicated by the yellow arrow in the diagram below.**

Tightening torque:  $2.6 \text{ N}\cdot\text{m} \pm 0.1 \text{ N}\cdot\text{m}$

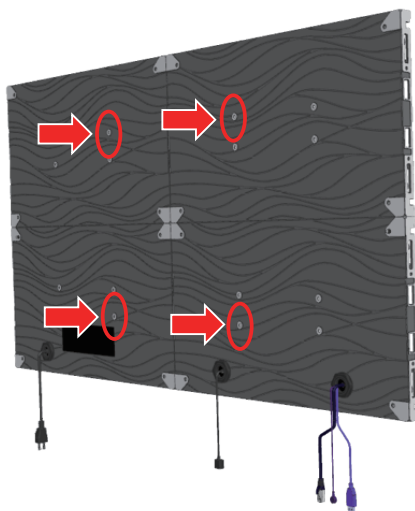
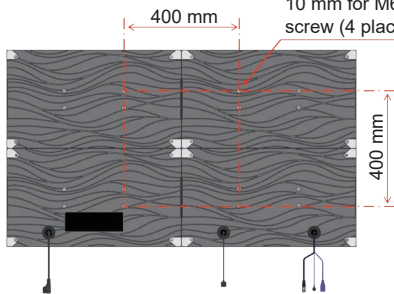


**■ When installing on a wall using VESA holes (screw hole depth 10 mm for M6 screw, pitch 400 mm × 400 mm)**

You can use the screw holes that conform to the VESA specification (screw hole depth 10 mm for M6 screw, pitch 400 mm × 400 mm) on the rear of the main unit to attach a wall mount that conforms to the VESA specification.

For details about how to attach the wall mounts, refer to the operating instructions for the wall mounts that you have purchased.

Screw hole depth  
10 mm for M6  
screw (4 places)



**Note**

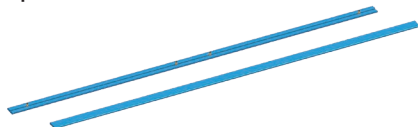
- Install on a wall that is strong enough to support the product.  
Guide: 55-inch display weighs approximately 21 kg in total

## Attaching the cover frames

Attach the cover frames to the top, bottom, and sides of the main unit.

There are three types of cover frame: Cover Frame Horizontal (TY-CF55LVH1), Cover Frame Vertical (TY-CF55LHV1), and Cover Frame Corner (TY-CF55LVC1), with 1 set per 55-inch unit.

**Cover Frame Horizontal (TY-CF55LVH1):**  
2 piece set



**Cover Frame Vertical (TY-CF55LVV1):**  
2 piece set



**Cover Frame Corner (TY-CF55LVC1):**  
4 piece set

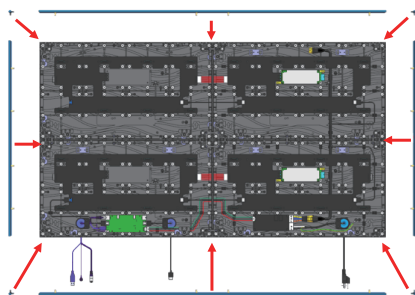


Illustration showing fitting

- 1 Attach the base pins (supplied with the cover frames) to assemble Cover Frame Horizontal (TY-CF55LVH1) and Cover Frame Vertical (TY-CF55LVV1).

Base pin



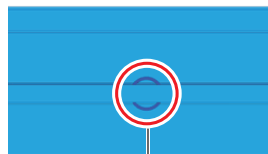
Cover Frame Vertical (TY-CF55LVV1)



Cover Frame Horizontal (TY-CF55LVH1)

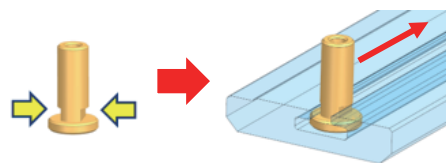


A mark as shown in the following diagram is embossed in 4 locations each on the cover frames at the points indicated by the red arrows above.



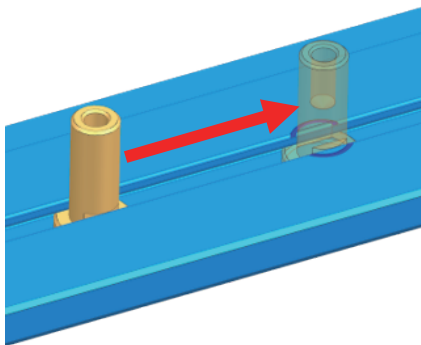
Mark indicating the place to fit the base pin

- ① The base pins have directionality, so pay attention to the base pin groove in the following diagram as you slide them into the cover frames.

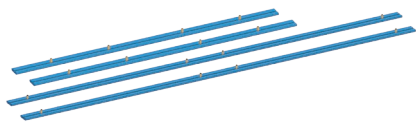


- ② Slide the base pins up to the marks indicating the places to fit the pins so the pins match the marks.

- The base pins are spring nuts, so the springs will temporarily hold the pins in position.



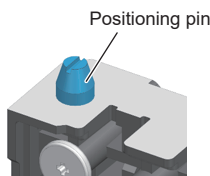
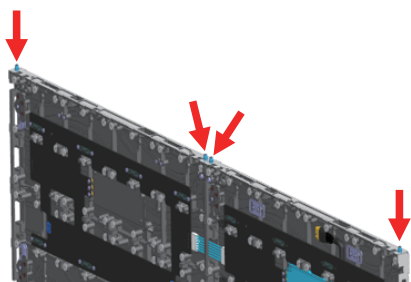
- ③ Use the same procedure to insert 4 pins into each of the cover frames.



## 2 Attach Cover Frame Horizontal (TY-CF55LVH1) to the main unit.

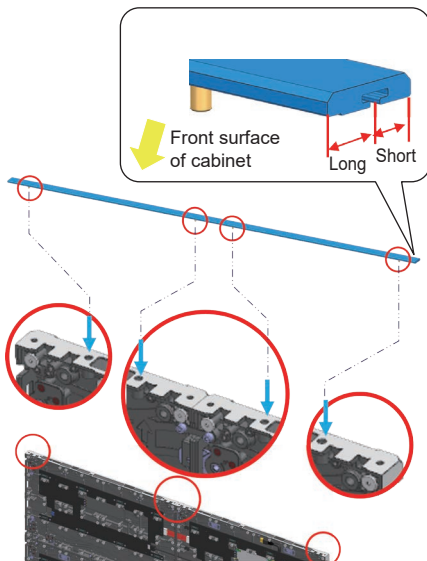
- ① Use a flat head screwdriver to remove the 4 positioning pins at the top of the main unit.

Positioning pins (4 places with red arrows in the below diagram)

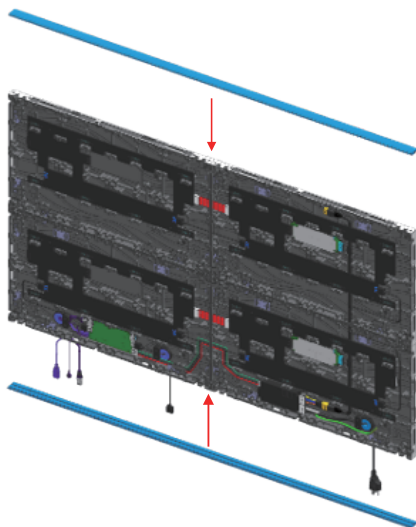


- ② Check the cross section of the cover frames, then insert the 4 base pins that you have fitted to each of the cover frames into the fitting holes on the main unit (refer to the blue arrows in the below diagram). Make sure the side with the longer distance from the groove to the edge surface faces the front (towards the LED module).

- With the base pins of the cover frames facing toward the cabinet, position the cover frames so that the side with the longer distance from the groove of the frame to the edge faces the front surface of the cabinet.



- When doing this, ensure the cover frame does not become horizontally misaligned with the main unit and ensure the positioning is correct.



- 3 Use the hex wrench (HEX2) supplied with the cover frames to tighten the supplied M3 × 10 bolts at 4 locations each at the top and bottom.

Tightening torque:  $0.3 \text{ N} \cdot \text{m} \pm 0.01 \text{ N} \cdot \text{m}$

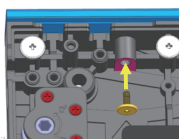
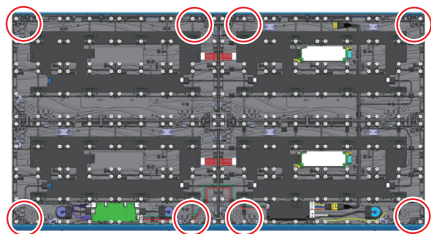


Hex wrench

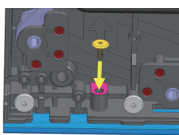
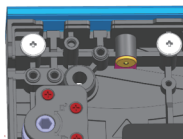


Supplied M3 x 10 bolt

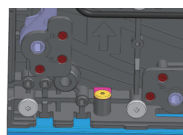
Places to tighten bolts (8 places with red circles)



Upper side

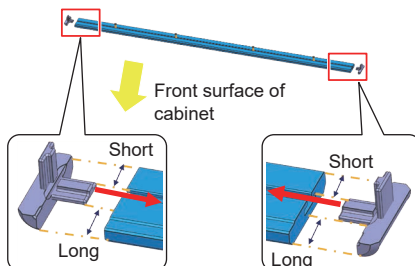


Lower side



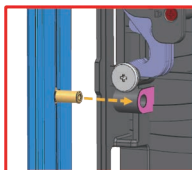
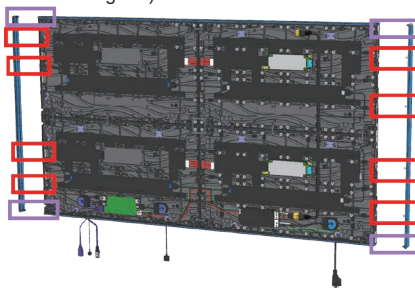
- 4 Insert 2 each of Cover Frame Corner (TY-CF55LVC1) onto each Cover Frame Vertical (TY-CF55LVV1).

- Pay attention to the directions and insert so that they match the cross section of the cover frames as shown in the following diagram.

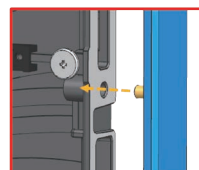


- 5 Attach Cover Frame Vertical (TY-CF55LVV1) to the main unit.

- Match the positions of the 4 base pins and holes on the left and right (refer to the red boxes in the below diagram) to attach.

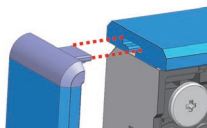


Left



Right

- Take care to match the protrusions on the Cover Frame Corner (TY-CF55LVC1) and the grooves on the Cover Frame Horizontal (TY-CF55LVH1) indicated by the 4 purple boxes in the above diagram.



- 6 Use the hex wrench (HEX2) supplied with the cover frames to tighten the supplied M3 × 10 bolts at 4 locations each at the left and right.**

Tightening torque:  $0.3 \text{ N}\cdot\text{m} \pm 0.01 \text{ N}\cdot\text{m}$

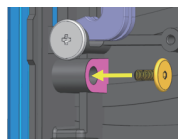
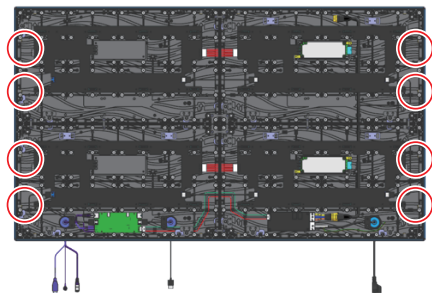


Hex wrench

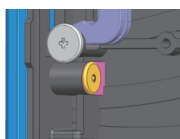


Supplied M3 x 10 bolt

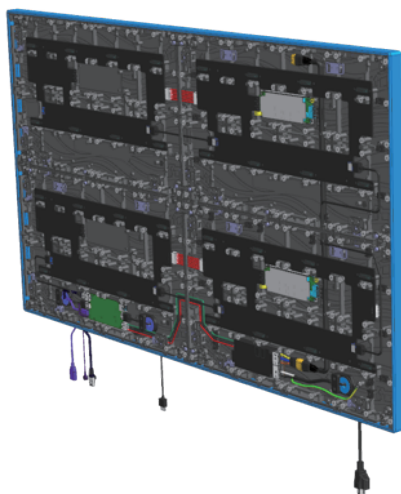
Places to tighten bolts (8 places with red circles)



Left



Right



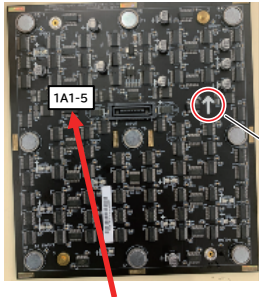
Completed diagram

## Attaching the LED modules

- Make sure that you do this task with the power turned off.
- Do not touch the LED modules with bare hands while performing the tasks. This is to prevent damage due to static electricity and contamination with skin oil.
- If you start the tasks immediately after turning off the power, the LED modules may interfere with each other and be difficult to remove. If this is the case, start the tasks after leaving the power turned off for a while.

### 1 Check the label on the rear of the LED module (e.g., 1A1-5) and the labels on the HUB PCBs of the cabinets (e.g., 1A1, 1A2, 1B1, and 1B2).

#### • Label on the rear of the LED module



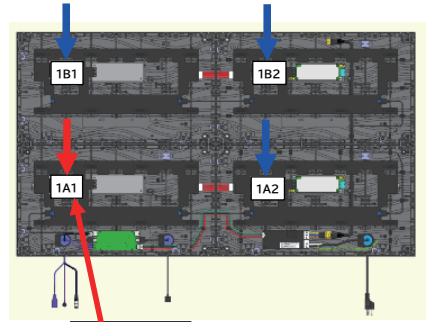
**1A1-5**

LED module position number

Cabinet number

Display number (Each unit has a different number, with a maximum of 3 digits.)

#### • HUB PCB label



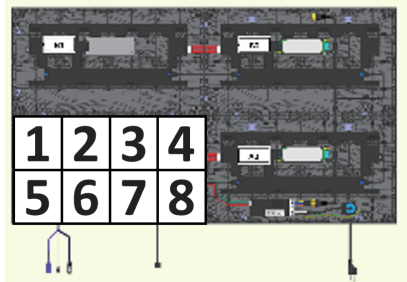
**1A1**

Cabinet number

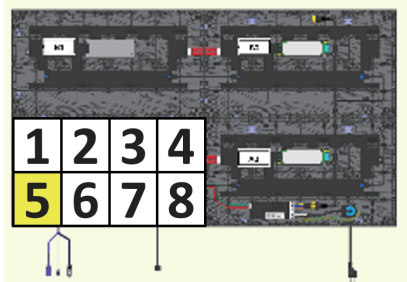
Display number (Each unit has a different number, with a maximum of 3 digits.)

- The label on the back of the LED module indicates which cabinet (27.5 inches) of the 55-inch unit the LED module is for. The LED module position number indicates the position of the LED module within that cabinet.

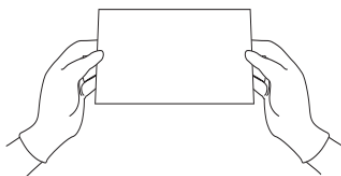
The following diagram indicates the numbering rules within each of the cabinets.



- In this example, this indicates that this LED module goes in the lower left of cabinet A1. (Location indicated in yellow in the following diagram)



- 2** Hold both sides of the LED module you want to attach.

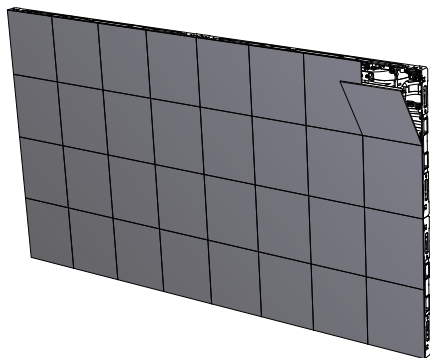


- 3** Align the bottom edge of the LED module with the bottom edge of the position to which it is to be attached.

- LED modules have a specified vertical orientation. The arrow on the rear of the LED module indicates the top.

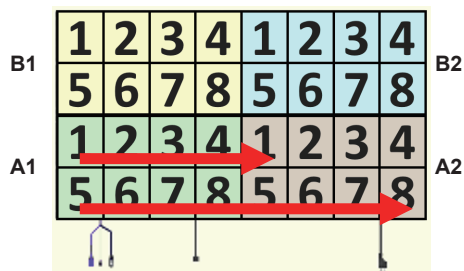
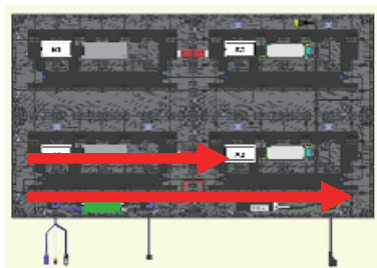
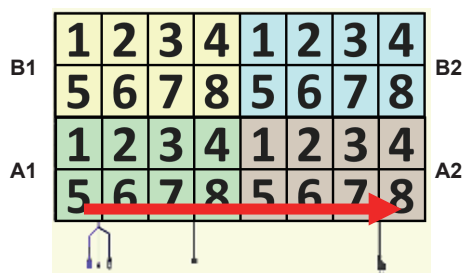
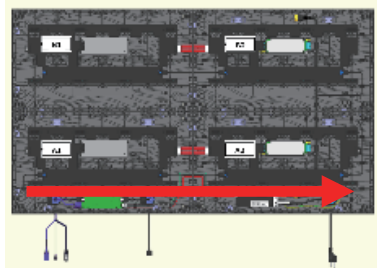
- 4** With the bottom edges aligned, attach the LED module to the cabinet.

- Do not apply strong force when attaching. This may cause the LED module to malfunction.
- There are cases where the picture may be poor due to poor contacts at the connections when installation is complete. If this happens, uninstall the LED module and then reinstall it.



- 5** The order for installing the LED modules is to start at the left of the bottommost row (A1-5) and install to the right, then to install the next row when the bottommost row is finished.

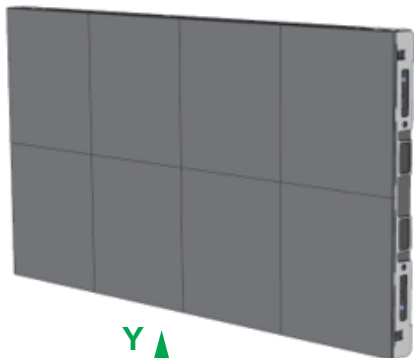
- Display numbers are omitted.
- A1-5 → A1-6 → A1-7 → A1-8 → A2-5 → A2-6 → A2-7 → A2-8 → A1-1 → A1-2 → A1-3 → A1-4 → A2-1 → A2-2 → A2-3 → A2-4 → B1-5 → B1-6 → B1-7 → B1-8 → B2-5 → B2-6 → B2-7 → B2-8 → B1-1 → B1-2 → B1-3 → B1-4 → B2-1 → B2-2 → B2-3 → B2-4



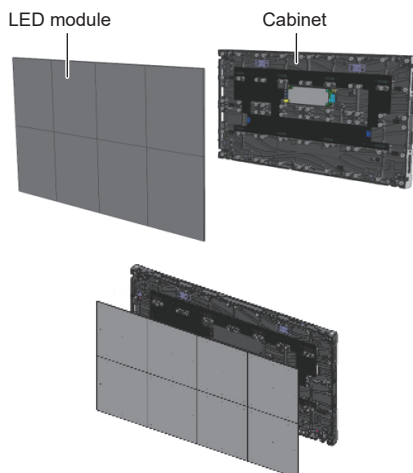
## Aligning the LED modules (Z axis)

If the different levels appear to be a problem, make adjustments to the LED module levels as necessary (in the Z direction). You can adjust the levels of the LED modules using the height adjustment screws on the cabinet.

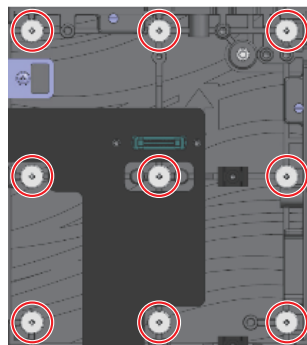
### The XYZ axes of the cabinet



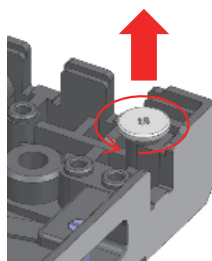
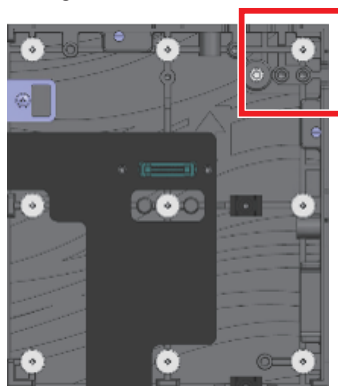
Eight LED modules are attached to each individual cabinet in the Z direction using magnets.



Each LED module has magnets in 9 locations to use magnetism to stick to the metal bolts on the cabinet to secure it.



You can adjust the height of the LED module by turning the metal bolts on the cabinet.



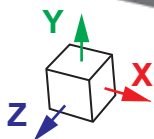
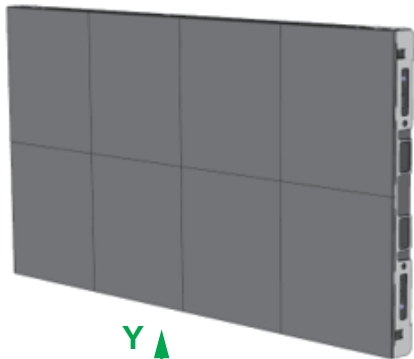
You can match the surfaces of the LED modules by increasing the height of the bolts by turning them in the counterclockwise direction.

## Adjusting the LED module gaps (XY directions)

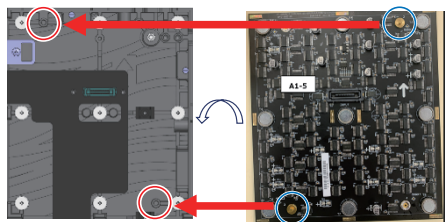
The XY positions of each of the LED modules are regulated by the cabinet and the positioning pins of the LED modules, so these positions cannot be adjusted.

If gaps are found to be noticeable, there is the possibility that small adjustments (in the XY directions) can be made using the looseness of the positioning of the LED modules.

### The XYZ axes of the cabinet

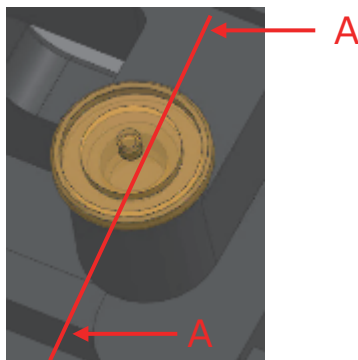


The positioning is regulated in the XY directions by fitting the positioning pins of the LED module, indicated by the 2 blue circles in the following diagram, into the boss depressions in the cabinet, indicated by the 2 red circles in the following diagram.

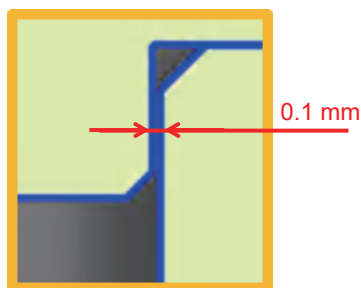
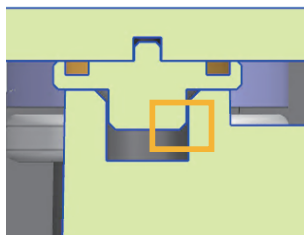


The following diagram shows a cross section of the positioning pin.

The design specifications allow for 0.1 mm of movement in the X and Y directions for the LED module in the cabinet. Due to the differences in the actual dimensions of the parts, there will be some variance in looseness, making it possible for some movement.

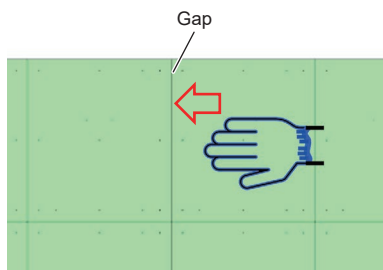
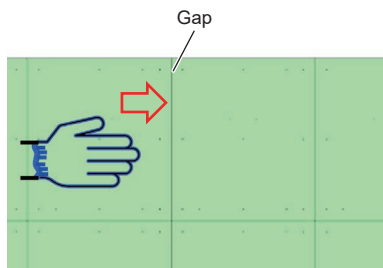


A-A cross section



On the LED modules where the gaps are noticeable, push with the palm of your hand, applying pressure in the direction of the arrow to slide a small amount.

- Make sure that you do this task while wearing antistatic gloves.
- As a guide, the amount of force applied should be about 2 kgf with the whole flat of your hand in contact with the surface.



#### Note

- Do not apply force at localized points, such as with your finger tips.
- When selecting antistatic gloves, choose ones that do not slip and are coated with polyurethane resin, etc., over the entire palm area of the glove.
- Antistatic gloves with a surface resistivity of  $10^6$ - $10^{11} \Omega$  are recommended.

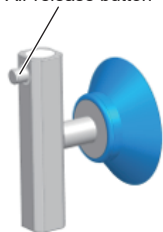
## Detaching the LED modules

- Make sure that you do this task with the power turned off.
- When detaching LED modules, detach using the LED module maintenance tool.

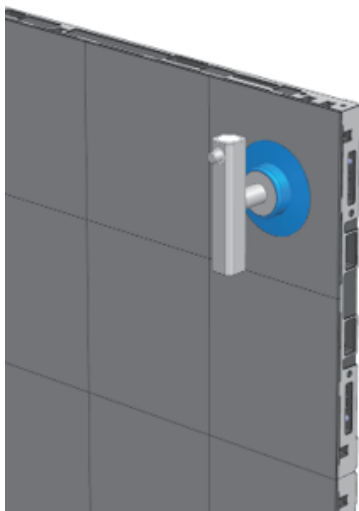
**1 Press the suction cup of the LED module removal tool onto the center of the LED module you want to remove so that suction is established.**

- The adhesion is released when you press the air release button of the tool. Do not press it while it is holding the LED module.

Air release button



LED module removal tool



## 2 Lift the LED module straight away from the cabinet to detach it.

- Be sure to lift directly away from the cabinet so that you do not come into contact with the neighboring LED modules. Failure to do so can cause damage or malfunction such as the film peeling off the surface of the LED module.

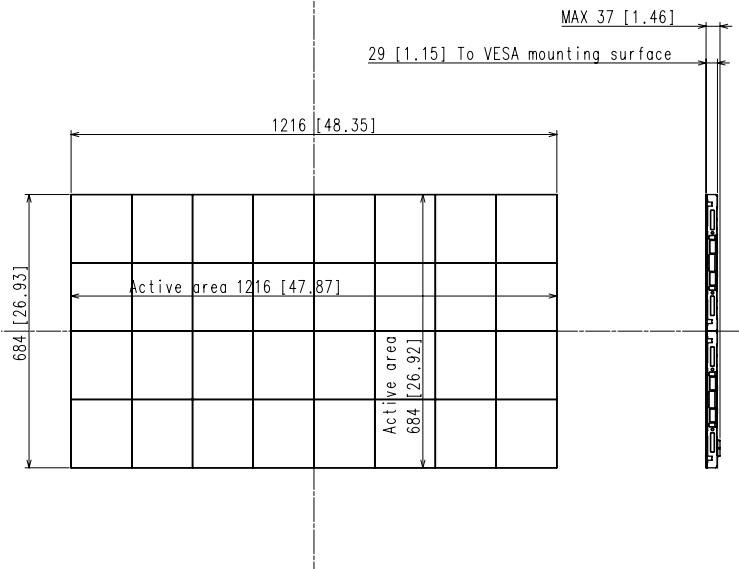


## 3 Press the air release button on the tool to remove the LED module from the tool.

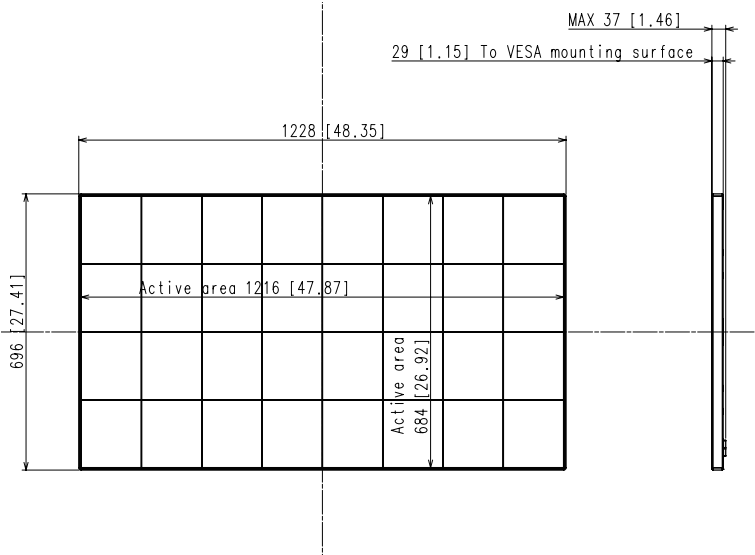
- Hold the LED module with your hand when you press the air release button of the tool so that the LED module does not fall.

# Dimensions

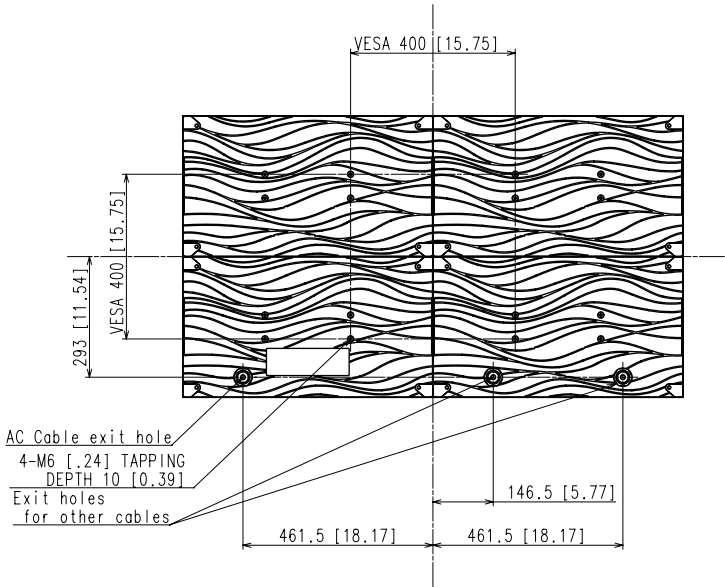
## Front and side views (excluding the cover frames)



## Front and side views (including the cover frames)



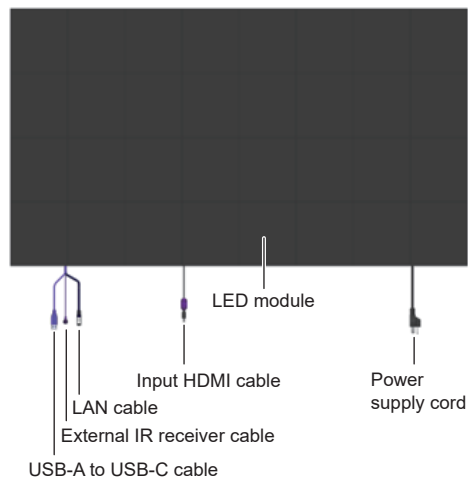
Rear view



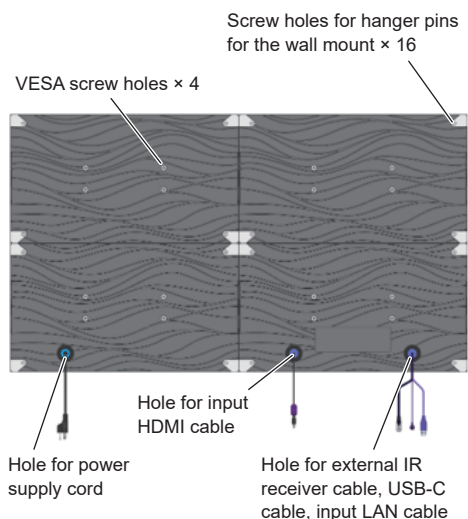
# Basic descriptions of the parts

## Display

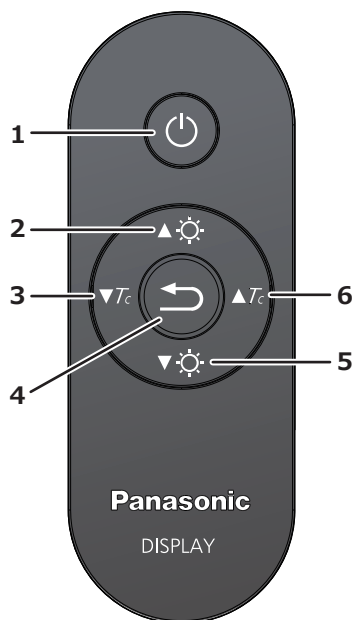
### Front view



### Rear view



## Remote Control Transmitter



### 1 Standby (ON/OFF)

- Switches On / Off the Display.

### 2 Brightness UP button

- Raises the brightness of the display screen.

### 3 Color temperature DOWN button

- Lowers the color temperature of the display screen.

### 4 Back button

- Returns the brightness/color temperature to factory settings by pressing and holding for 5 seconds.

### 5 Brightness DOWN button

- Lowers the brightness of the display screen.

### 6 Color temperature UP button

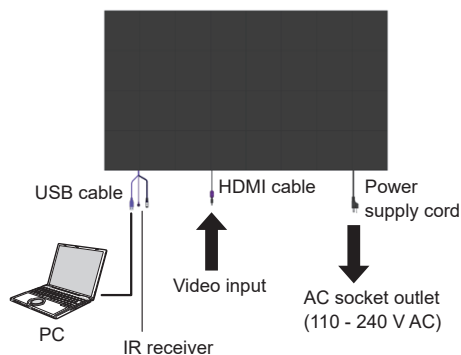
- Raises the color temperature of the display screen.

### Note

- Adjust the brightness in 10 levels from 10 (dim) to 100 (bright) in increments of 10.
- Adjust the color temperature to one of the following settings: 4000 K, 6500 K, 9300 K, or 10700 K. (Lower values emphasize red tones. Higher values emphasize blue tones.)
- The factory default settings are 100 for brightness and 6500 K for color temperature.

# Basic Controls

Example of 55-inch model



Face the remote control transmitter at the receiver of the IR receiver cable to operate.



**1** Insert the mains plug into the socket outlet.

**2** The power on the main unit automatically turns “On”.

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

### To turn the power off

- When the power on the main unit is “On” and you press the power button on the remote control transmitter, the power turns “Off”.

### To turn the power on

- When the power on the main unit is “Off” and you press the power button on the remote control transmitter, the power turns “On”.

### Note

- This unit is compatible with the “LED Manager LV” software that adjusts and controls LED displays (LV series) from a PC.
- Refer to the Operating Instructions for LED Manager LV for descriptions of how to control this unit with a PC.
- For more details, visit the following website:  
(<https://docs.connect.panasonic.com/prodisplays/>)

# Preset signals

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

| Supported signals | Resolution (dots) | Scanning frequency |               | Dot clock frequency (MHz) | Output settings |
|-------------------|-------------------|--------------------|---------------|---------------------------|-----------------|
|                   |                   | Horizontal (kHz)   | Vertical (Hz) |                           |                 |
| 960 x 540 60p     | 960 x 540         | 37.50              | 60.00         | 54.000                    | 960 x 540       |
| 960 x 540 50p     | 960 x 540         | 31.25              | 50.00         | 54.000                    | 960 x 540       |
| 1920 x 1080 60p   | 1920 x 1080       | 67.50              | 60.00         | 148.500                   | 960 x 540       |
| 1920 x 1080 50p   | 1920 x 1080       | 56.25              | 50.00         | 148.500                   | 960 x 540       |
| 1920 x 1080 60p   | 1920 x 1080       | 67.50              | 60.00         | 148.500                   | 1920 x 1080     |
| 1920 x 1080 50p   | 1920 x 1080       | 56.25              | 50.00         | 148.500                   | 1920 x 1080     |
| 3840 x 2160 60p   | 3840 x 2160       | 135.00             | 60.00         | 594.000                   | 1920 x 1080     |
| 3840 x 2160 50p   | 3840 x 2160       | 112.50             | 50.00         | 594.000                   | 1920 x 1080     |
| 2880 x 1620 60p   | 2880 x 1620       | 101.28             | 60.00         | 334.224                   | 2880 x 1620     |
| 2880 x 1620 50p   | 2880 x 1620       | 84.40              | 50.00         | 278.520                   | 2880 x 1620     |
| 1920 x 1080 60p   | 1920 x 1080       | 67.50              | 60.00         | 148.500                   | 2880 x 1620     |
| 1920 x 1080 50p   | 1920 x 1080       | 56.25              | 50.00         | 148.500                   | 2880 x 1620     |
| 3840 x 2160 60p   | 3840 x 2160       | 135.00             | 60.00         | 594.000                   | 2880 x 1620     |
| 3840 x 2160 50p   | 3840 x 2160       | 112.50             | 50.00         | 594.000                   | 2880 x 1620     |
| 3840 x 2160 60p   | 3840 x 2160       | 135.00             | 60.00         | 594.000                   | 3840 x 2160     |
| 3840 x 2160 50p   | 3840 x 2160       | 112.50             | 50.00         | 594.000                   | 3840 x 2160     |
| 1920 x 1080 60p   | 1920 x 1080       | 67.50              | 60.00         | 148.500                   | 3840 x 2160     |
| 1920 x 1080 50p   | 1920 x 1080       | 56.25              | 50.00         | 148.500                   | 3840 x 2160     |
| 1920 x 1620 60p   | 1920 x 1620       | 101.28             | 60.00         | 222.816                   | 1920 x 1620     |
| 1920 x 1620 50p   | 1920 x 1620       | 84.40              | 50.00         | 185.680                   | 1920 x 1620     |
| 2880 x 1080 60p   | 2880 x 1080       | 67.50              | 60.00         | 222.750                   | 2880 x 1080     |
| 2880 x 1080 50p   | 2880 x 1080       | 56.25              | 50.00         | 185.625                   | 2880 x 1080     |
| 1920 x 2160 60p   | 1920 x 2160       | 135.06             | 60.00         | 297.132                   | 1920 x 2160     |
| 1920 x 2160 50p   | 1920 x 2160       | 112.55             | 50.00         | 247.610                   | 1920 x 2160     |
| 3840 x 1080 60p   | 3840 x 1080       | 67.50              | 60.00         | 297.000                   | 3840 x 1080     |
| 3840 x 1080 50p   | 3840 x 1080       | 56.25              | 50.00         | 247.500                   | 3840 x 1080     |
| 2880 x 2160 60p   | 2880 x 2160       | 135.06             | 60.00         | 445.698                   | 2880 x 2160     |
| 2880 x 2160 50p   | 2880 x 2160       | 112.55             | 50.00         | 371.415                   | 2880 x 2160     |
| 3840 x 1620 60p   | 3840 x 1620       | 101.28             | 60.00         | 445.632                   | 3840 x 1620     |
| 3840 x 1620 50p   | 3840 x 1620       | 84.40              | 50.00         | 371.360                   | 3840 x 1620     |

## Note

- In order to display the above video signals, it is necessary to change the input resolution and output settings in the dedicated app (LED Manager LV).
- By factory default, the input resolution is set to 1920 x 1080 60 Hz and the output setting is set to 1920 x 1080. If a single unit is used with the factory default settings, the display settings are configured for a 2 x 2 layout, so only the upper left quarter of the screen will be displayed.
- The EDID (extended display identification data) output by this unit will change according to the input resolution and output settings.

If a PC is connected, the PC will select the optimum output signal automatically according to the EDID, but if the display settings of the PC are set to "Duplicate", then the display may not be correct. In this case, we recommend setting the display settings on the PC to "Extend".

# Specifications

## Product

|                                               |                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------|
| Model No.                                     | TL-55LV12AW                                                                                       |
| Device type                                   | LED Display                                                                                       |
| Power supply                                  | AC 110 - 240 V 50/60 Hz 1.77 A - 0.94 A (no AC power output)                                      |
| Rated Input current                           | 8 A - 4 A (AC 110 V - 240 V)                                                                      |
| Rated Output current                          | 6 A - 3 A (AC 110 V - 240 V)                                                                      |
| LED type                                      | 3-in-1 COB                                                                                        |
| Pixel pitch                                   | 1.26 mm                                                                                           |
| Screen size                                   | 55 inch / 54.92 inch (1395.1 mm)                                                                  |
| Screen dimensions                             | 1 216.0 mm (W) × 684.0 mm (H), 1 395.1 mm (diagonal) / 47.87" (W) × 26.92" (H), 54.92" (diagonal) |
| Number of pixels                              | 518 400 pixels (960 horizontal × 540 vertical)                                                    |
| Operating condition                           | Temperature: 0 °C to 40 °C (32 °F to 104 °F) *1<br>Humidity: 10 % to 80 %                         |
| HDMI input terminal                           | TYPE A connector *2 ×1,<br>Compatible with HDCP 2.2                                               |
| USB-C terminal *3<br>(for PC control)         | USB Type C Connector ×1                                                                           |
| Infrared signal input terminal                | Stereo Mini Jack (Φ3.5 mm)                                                                        |
| LAN input terminal<br>(for PC control)        | RJ45 10BASE-T                                                                                     |
| LAN output terminal<br>(for system expansion) | RJ45 10BASE-T                                                                                     |
| Dimensions (W × H × D)                        | 1 216 mm × 684 mm × 29 mm / 47.88" × 26.93" × 1.13"                                               |
| Mass                                          | 18.3 kg / 40.4 lbs                                                                                |
| Cabinet material type                         | Aluminium die-casting                                                                             |

## Remote Control Transmitter

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Power supply           | DC 3.0 V (CR2025 × 1)                                                          |
| Operating range        | Approx. 7 m / 23 ft (when operated directly in front of remote control sensor) |
| Mass                   | Approx. 30 g / 1.1 oz (including a battery)                                    |
| Dimensions (W × H × D) | 40.1 mm × 108.0 mm × 9.8 mm / 1.58" × 4.26" × 0.39"                            |

\*1 Environmental temperature to use this unit at high altitudes (1 400 m (4 593 ft) and higher and below 2 800 m (9 186 ft) above sea level); 0 °C to 35 °C (32 °F to 95 °F)  
\*2 VIERA LINK is not supported.  
\*3 USB-C is only used for data transmission and not for power transmission.

# Software License

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This product incorporates the following software:

- (1) the software developed independently by or for Panasonic Projector & Display Corporation,
- (2) the software owned by third party and licensed to Panasonic Projector & Display Corporation,

## **Notice about AVC/VC-1/MPEG-4**

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>.

## 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 authority.

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.

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To dispose of your product, please recycle in accordance with local environmental regulations. For further recycling please visit <https://shop.panasonic.com/recycle>

#### 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**

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