

## Operating Instructions

CABINET MODULE For business use

English

Model No.

**TY-FD12AS1**

**TY-FD12AS1B (FOR POWER)**

**TY-FD12AS4 (4-tier type)**

**TY-FD15AS1**

**TY-FD15AS1B (FOR POWER)**

**TY-FD15AS5 (5-tier type)**

**TY-FD19AS1**

**TY-FD19AS1B (FOR POWER)**

**TY-FD19AS6 (6-tier type)**



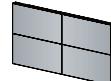
TY-FD19AS6 (6-tier type)



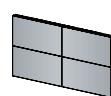
TY-FD15AS5 (5-tier type)



TY-FD12AS4 (4-tier type)



TY-FD12AS1  
TY-FD15AS1  
TY-FD19AS1



TY-FD12AS1B (FOR POWER)  
TY-FD15AS1B (FOR POWER)  
TY-FD19AS1B (FOR POWER)

- Please read these instructions before operating your set and retain them for future reference.
- This Operating Instructions is applicable for TY-FD12AS1, TY-FD12AS1B (for power supply), TY-FD12AS4 (4-tier type), TY-FD15AS1, TY-FD15AS1B (for power supply), TY-FD15AS5 (5-tier type), TY-FD19AS1, TY-FD19AS1B (for power supply), and TY-FD19AS6 (6-tier type).
- This device is a dedicated component for TL-110AD12AW/TL-137AD15AW/TL-165AD19AW. This device cannot be purchased separately from the above-named units.
- Illustrations and screens in this Operating Instructions are images for illustration purposes, and may be different from the actual ones.

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**WARNING**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**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.

# 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) Do not block any ventilation openings. 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.

# 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.
- 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 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.

# Safety Precautions

## WARNING

### ■ Setup

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

Improper installation may result in death or serious injury.

- Attach to a wall using the special wall mounts included in the FHD LED Display (TL-110AD12AW/ TL-137AD15AW/TL-165AD19AW) package.
- 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.
- The Power Box should be installed using the fittings included in the FHD LED Display (TL-110AD12AW/ TL-137AD15AW/TL-165AD19AW) package.
- The Control Box (TY-CTRFHD1W) should be installed using the fittings included in the FHD LED Display (TL-110AD12AW) package. Alternatively, installation on an ANSI/EIA-310-D-compliant rack is acceptable.
- Install the control box (TY-CTRFHD2W/TY-CTRFHD3W) on an ANSI/EIA-310-D-compliant rack.
- When installing the FHD LED Display (TL-110AD12AW) on a stand, use the specified mobile stand (TY-ST110AD1) (sold separately).
- 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 young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

**Do not place the 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.

**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

**TY-FD12AS1, TY-FD12AS1B, and TY-FD12AS4 are designed to operate on 220 – 240 V AC, 50/60 Hz.**

**TY-FD15AS1, TY-FD15AS1B, TY-FD15AS5, TY-FD19AS1, TY-FD19AS1B, and TY-FD19AS6 are designed to operate on 200 – 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 or no sound is heard, occasionally.
- Liquid such as water or foreign objects got inside the unit.
- The unit has deformed or broken parts.

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

- Unplug the power supply plug from the wall outlet, and then contact the dealer for repairs.
- To cut off the power supply to this 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 insert any metal or flammable objects into the ventilation holes or drop them onto the unit, as doing so can 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.

**Ensure that the mains plug is easily accessible.**

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

**Use the power cord supplied with the power box (TY-PWRBX1W/TY-PWRBX2W/TY-PWRBX3W) to connect to TY-FD12AS4/TY-FD15AS5/TY-FD19AS6. For serial assembly of TY-FD15AS5/TY-FD19AS6, use the power cords coming out of the cabinets.**

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

	Power boxes that can be used
TY-FD12AS4	TY-PWRBX1W
TY-FD15AS5	TY-PWRBX2W
TY-FD19AS6	TY-PWRBX3W

**Do not connect the power supply cords of this unit to other equipment or connect to a cabinet module so that the maximum number of connections is exceeded.**

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

	Maximum number of cabinet modules that can be connected
TY-FD15AS1B	1
TY-FD19AS1B	2

**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 and the power supply connector is fully inserted into the unit or the Power Box.**

- Incomplete insertion may cause electric shock or fire due to heating.
- Do not keep using a damaged mains plug or a loose socket outlet.
- Make sure that the power supply connector is locked.

**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.

**When the product is connected to Mains, it must not be moved under any condition.**

- When the product is used in conjunction with the floor-standing bracket specified by the manufacturer, please ensure that the rollers of the floor-standing bracket remain locked at all time both after being connected to mains and before being disconnected from mains.

## CAUTION

**Do not close or plug any of the air vents in the unit.**

**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.

**Do not place any objects on top of the device.**

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

**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.

**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/installation 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) or the power supply connector (when disconnecting from the unit).**

- 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.

**Unpack and carry the unit with assistance of other workers.**

- It may fall and cause injury.

**When using a mobile stand, take safety measures to prevent it from tumbling down or falling.**

- In the event of an earthquake or if a child climbs on it, it may tumble down or fall and cause injury.

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

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

# 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 panel will be kept within the specified allowable operating temperature range.

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

## ■ Note for connection

**Removing and inserting the power cord and connection cables**

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

## ■ When using

**After setting the Cabinet Module to the unit, avoid moving it to the following places. Vibrations applied to the unit while it is moved may cause misalignment or gaps between the LED Modules.**

- Place with a stepped surface
- Place with bumps and digs on the surface

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

**To maximize the service life of LEDs**

- The LED elements can absorb moisture if the unit is used or stored in a highly humid place or has not been run for an extensive period of time. Selecting a high luminance setting with the LED elements in such moist condition can cause the LED elements to go through a rapid temperature change, which can result in LED element failure. To select a higher luminance setting, set the [Warm up aging] (an intermediate mode where the luminance setting is raised a little at a time before entering the regular operation mode) option to [On] or [Auto].
- For more information about the warm up aging, refer to the "Operating Instructions - Functional Manual" for the Control Box.

**The unit may experience burn-in.**

- If still images are displayed for a long period of time, the unit may experience burn-in.  
It can be reduced by "Wobbling" or "Pixel calibration mode" (burn-in correction). For details on the functions, refer to the "Operating Instructions - Functional Manual" for the Control Box.

**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 panel unnecessarily as this may cause malfunctions or failures.

**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 apply an adhesive tape or sticker to 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.

## ■ Connection via RJ45 terminals

The RJ45 terminal on the unit is a terminal dedicated for connecting only to the Control Box. Do not connect this terminal to a network device. If the terminal is mistakenly connected to a network device, system failure may result.

**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.

## ■ 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.

**When cleaning the LED Module surface, be careful not to damage the LED elements.**

- Catching LED elements with a cleaning cloth or tool may cause the LED elements to come off from the LED Module, resulting in damage or malfunction.

### **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

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## Product

TY-FD12AS1

TY-FD15AS1

TY-FD19AS1

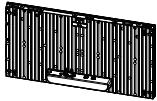


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TY-FD12AS1B

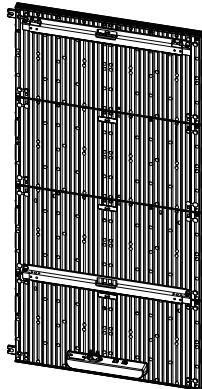
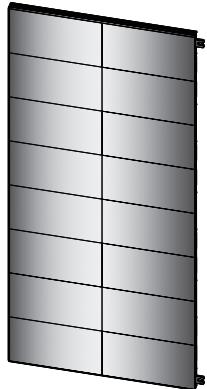
TY-FD15AS1B

TY-FD19AS1B



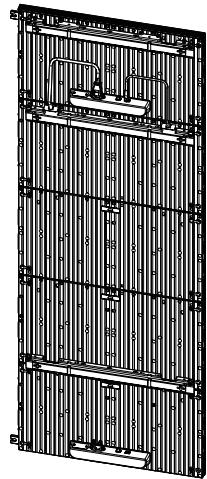
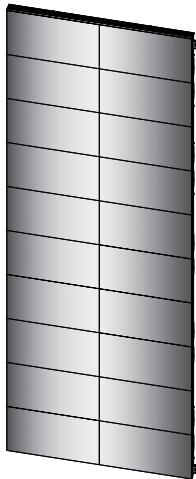
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TY-FD12AS4



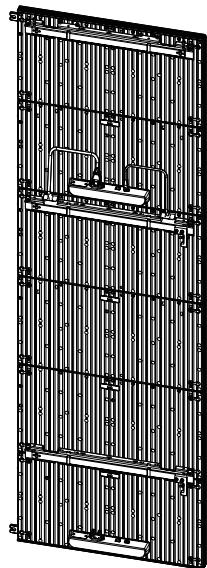
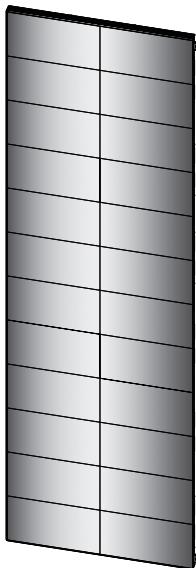
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TY-FD15AS5



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TY-FD19AS6



## Accessories Supply

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

### ■ TY-FD12AS1 / TY-FD12AS1B / TY-FD15AS1 / TY-FD15AS1B / TY-FD19AS1 / TY-FD19AS1B Accessories

#### Decorative plate (S) <1>

DPVF4999ZA/X1



#### Decorative plate (L) <1>

DPVF5000ZA/X1



#### Decorative plate (corner) <4>

DPVF5001ZA/X1



#### Connection fitting, vertical <3>

DPVF4985ZA/X1



#### horizontal <2>

DPVF4982ZA/X1



#### M8-14 bolt <3>

#### For vertical connection fittings

DPVF4986ZA/X1



#### M10-20 bolt <2>

#### For horizontal connection fittings

DPVF4983ZA/X1

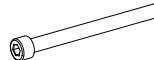


#### Mounting hook <1>



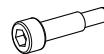
#### M8-90 spacer bolt <2>

DPVF4990ZA/X1



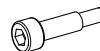
#### Y-axis adjustment bolt <2>

DPVF4991ZA/X1



#### Stopper fixing bolt <2>

DPVF4991ZA/X1



## ■ TY-FD12AS4 / TY-FD15AS5 / TY-FD19AS6

### Accessories

#### Decorative plate (S)\* <1>

DPVF4999ZA/X1



#### Decorative plate (L)\* <1>

DPVF5000ZA/X1



#### Decorative plate (corner)\* <4>

DPVF5001ZA/X1



#### Connection fitting\* <2>

##### Horizontal

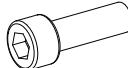
DPVF4982ZA/X1



#### M10-18 bolt\* <2>

##### B for horizontal connection fittings

DPVF4984ZA/X1



#### M10-20 bolt\* <2>

##### For horizontal connection fittings

DPVF4983ZA/X1



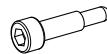
#### M8-90 spacer bolt <2>

DPVF4990ZA/X1



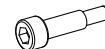
#### Y-axis adjustment bolt <2>

DPVF4991ZA/X1



#### Stopper fixing bolt <2>

DPVF4991ZA/X1



\* Attached to the unit in the TL-110AD12AW / TL-137AD15AW / TL-165AD19AW package

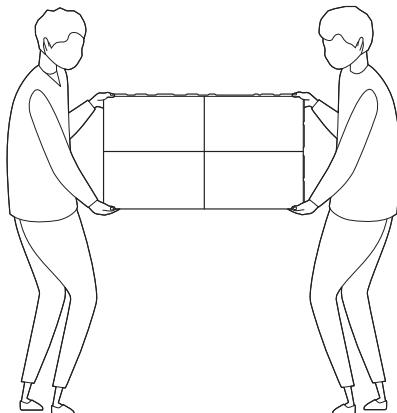
#### Attention

- Store small parts in an appropriate manner, and keep them away from young children.
- The part numbers of accessories are subject to change without notice. (The actual part number may differ from the ones shown above.)
- In case you lost accessories, please purchase them from your dealer. (Available from the customer service)
- Dispose the packaging materials appropriately after taking out the items.

# Cautions when moving

Securely hold both ends of the unit to move it.

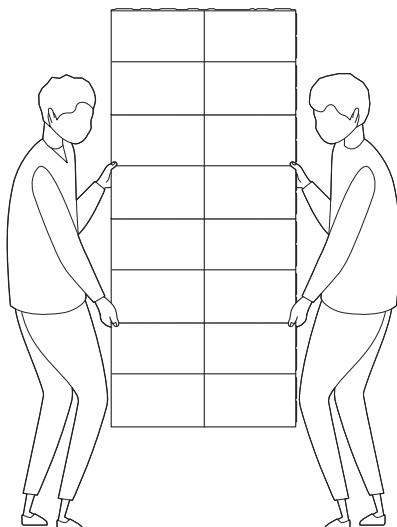
**TY-FD12AS1, TY-FD12AS1B, TY-FD15AS1,  
TY-FD15AS1B, TY-FD19AS1, TY-FD19AS1B**



## Note

- Mount the unit on a wall or stand with assistance of other workers.
- Be careful to keep the vertical and horizontal sides of the unit frame and also the unit corners away from other objects.  
Collision with other objects may lead to mechanical failure.
- TY-FD15AS5 and TY-FD19AS6 are disassembled for packaging. Refer to the Installation Instructions when assembling.

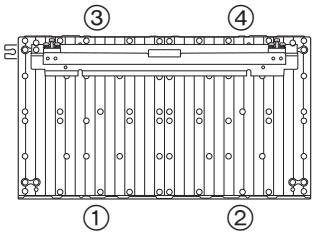
**TY-FD12AS4**



# Connections

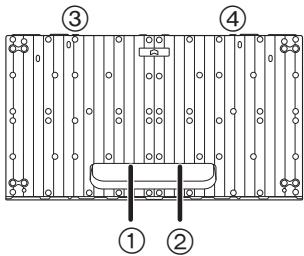
## Connecting the equipment

### TY-FD12AS1 / TY-FD15AS1 / TY-FD19AS1



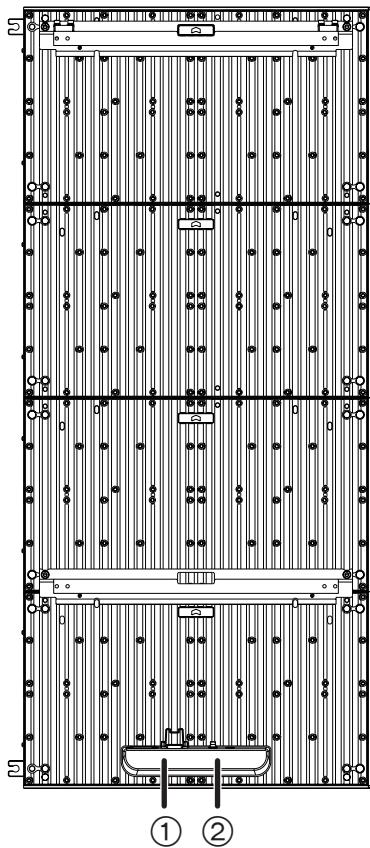
- ① POWER IN: Power input terminal
- ② SIGNAL IN: LED drive input terminal
- ③ POWER OUT: Power output terminal
- ④ SIGNAL OUT: LED drive output terminal

### TY-FD12AS1B / TY-FD15AS1B / TY-FD19AS1B

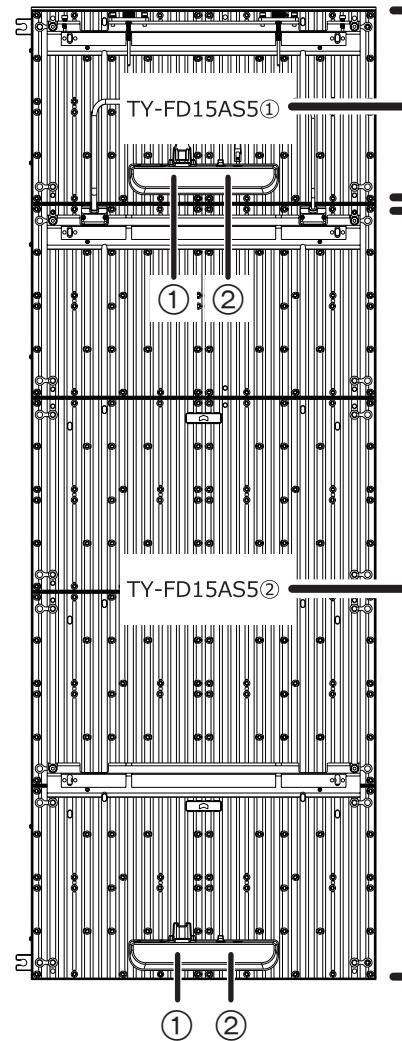


- ① POWER IN: Power input terminal
- ② SIGNAL IN: LED drive input terminal
- ③ POWER OUT: Power output terminal
- ④ SIGNAL OUT: LED drive output terminal

TY-FD12AS4



TY-FD15AS5

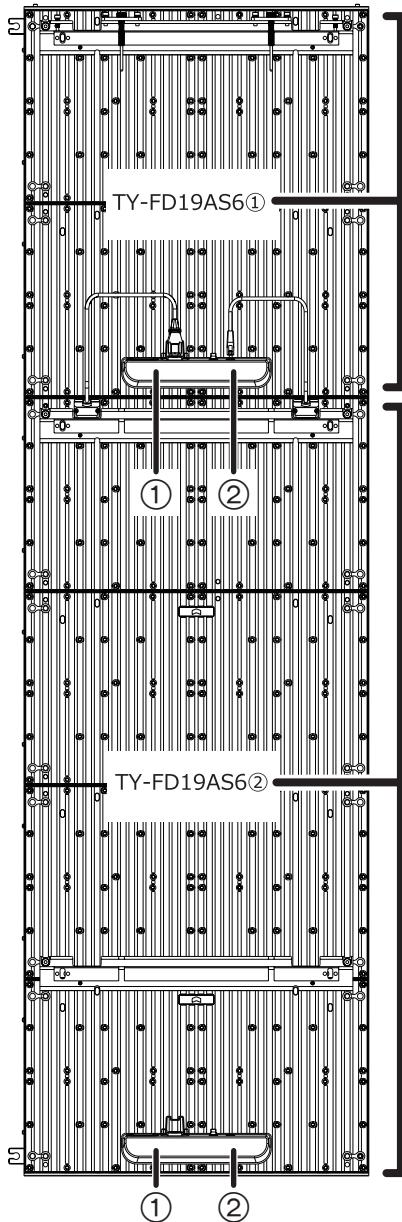


① POWER IN: Power input terminal

② SIGNAL IN: LED drive input terminal

**Note**

- TY-FD15AS5 is packaged in separate packaging: TY-FD15AS5 ① and TY-FD15AS5 ②.



① POWER IN: Power input terminal

② SIGNAL IN: LED drive input terminal

#### Note

- TY-FD19AS6 is packaged in separate packaging: TY-FD19AS6 ① and TY-FD19AS6 ②.

#### Before connecting

- Before connection, carefully read the Operating Instructions for the components connected to the unit. (TY-CTRFHD1W, TY-CTRFHD2W, TY-CTRFHD3W, TY-PRWBX1W, TY-PRWBX2W, TY-PRWBX3W) To download the Operating Instructions, please visit the Panasonic website (<https://docs.connect.panasonic.com/prodisplays/>).



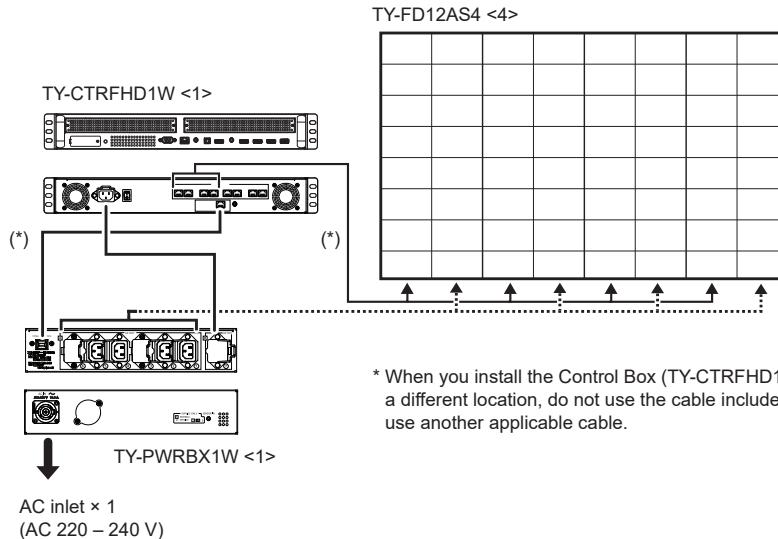
- Turn off the power of all devices before connecting cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
  - When connecting a cable to the unit or a device connected to the unit itself, touch any nearby metallic objects to eliminate static electricity from your body before performing work.
  - Be sure to use the power supply cord supplied with TY-PWRBX1W as the power supply cord to connect to TY-FD12AS4.
  - Be sure to use the power supply cord supplied with TY-PWRBX2W as the power supply cord to connect to TY-FD15AS5.
  - Be sure to use the power supply cord supplied with TY-PWRBX3W as the power supply cord to connect to TY-FD19AS6.
- For the LAN cable to be connected to the unit:
  - When the control box (TY-CTRFHD1W) is to be installed behind this unit, use the LAN cable supplied with TY-CTRFHD1W.
  - When installing a power box (TY-PWRBX1W/TY-PWRBX2W/TY-PWRBX3W) on the rear of this unit, use the LAN cable supplied with each power box.
  - When installing the control box (TY-CTRFHD1W) or the power box (TY-PWRBX1W) in a location separate from this unit, it is recommended to use a cable that is 30 m or less and compliant with CAT5e or better.
  - When using a LAN cable other than the LAN cable supplied with the control box (TY-CTRFHD2W/TY-CTRFHD3W) or the power box (TY-PWRBX2W/TY-PWRBX3W), we recommend using a LAN cable that is 30 m or less and compliant with CAT5e or better.
- When connecting the LAN cable with plug cover, be aware that the cover may come in contact with the back cover and it may be difficult to disconnect.

# Installation

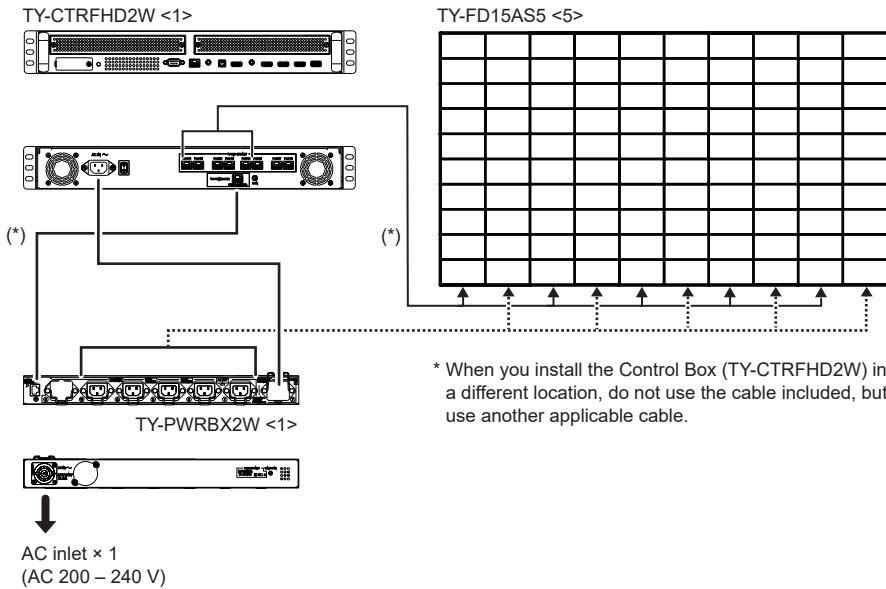
Read the Installation Instructions for TL-110AD12AW/TL-137AD15AW/TL-165AD19AW for installation instructions. To download the Installation Instructions, please visit the Panasonic website (<https://docs.connect.panasonic.com/prodisplays/>).



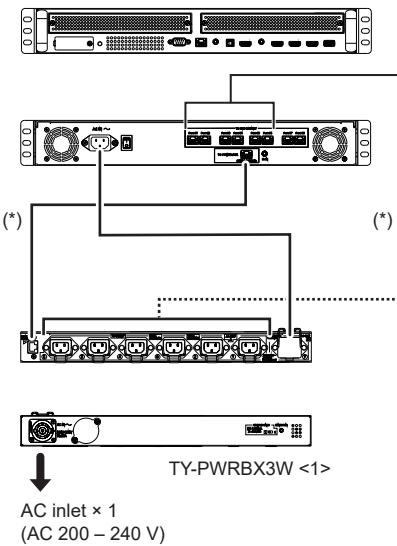
## ■ TL-110AD12AW



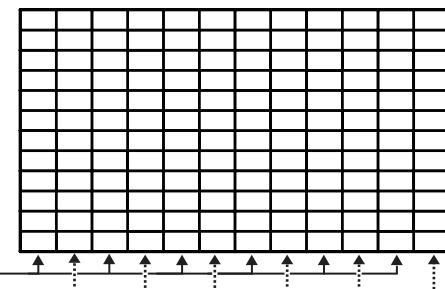
## ■ TL-137AD15AW



TY-CTRFHD3W <1>



TY-FD19AS6 <6>



\* When you install the Control Box (TY-CTRFHD3W) in a different location, do not use the cable included, but use another applicable cable.

**Note**

- Connect this unit to a circuit with an overcurrent protection device rated at 30 A.
- Ensure each AC IN power plug on the Power Box is connected to a separate, independently wired outlet on the distribution board. Do not connect multiple plugs to the same circuit, as this can cause an overload and create a safety hazard.
- Apply power only after all assembly, mounting, and connections are complete.
- If you cannot turn off the main power switch on the Control Box, disconnect the power plug.

# Specifications

Model No.	TY-FD12AS1	TY-FD12AS1B	TY-FD12AS4
Device type		Cabinet Module	
Power supply		AC 220 V – 240 V, 50 Hz / 60Hz	
Power consumption	1.2 - 0.55 A	1.2 - 0.55 A	4.8 - 2.2 A
LED display panel	90 W*1  27.5 type*2 (aspect ratio 16:9)	90 W*1  27.5 type*2 (aspect ratio 16:9)	360 W*1  59 type*2 (aspect ratio 16:36)
Screen dimensions	608 mm (W) × 342 mm (H), 697.6 mm (diagonal) / 23.94" (W) × 13.46" (H), 27.46" (diagonal)	608 mm (W) × 342 mm (H), 697.6 mm (diagonal) / 23.94" (W) × 13.46" (H), 27.46" (diagonal)	608 mm (W) × 1 368 mm (H), 1 497.1 mm (diagonal) / 23.94" (W) × 53.86" (H), 58.94" (diagonal)
Number of pixels	129 600 pixels (480 horizontal × 270 vertical)	129 600 pixels (480 horizontal × 270 vertical)	518 400 pixels (480 horizontal × 1 080 vertical)
Operating condition	Temperature: 0 °C – 40 °C (32 °F – 104 °F) *3 Humidity: 10 % – 80 % (no condensation)		
Operating hours	24 hours/day		
Terminals	Power input terminal × 1 Power output terminal × 1 LED drive input terminal × 1 LED drive output terminal × 1	Power input terminal × 1 Power output terminal × 1 LED drive input terminal × 1 LED drive output terminal × 1	Power input terminal × 1 LED drive input terminal × 1
Dimensions (W × H × D)	608 mm × 342 mm × 29.5 mm / 23.94" × 13.46" × 1.16"	608 mm × 342 mm × 29.5 mm / 23.94" × 13.46" × 1.16"	608 mm × 1 368 mm × 29.5 mm / 23.94" × 53.86" × 1.16"
Mass	Approx. 4.9 kg / 10.80 lbs	Approx. 5.0 kg / 11.02 lbs	Approx. 22.5 kg / 49.60 lbs
Cabinet material type	ALUMINUM DIE CAST		

\*1 Shipping condition

\*2 For the V-type display, it is a reference for the size based on the diagonal dimension of the effective screen area.

\*3 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)

## Note

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

Model No.	TY-FD15AS1	TY-FD15AS1B	TY-FD15AS5
Device type		Cabinet Module	
Power supply		AC 200 V – 240 V, 50 Hz / 60Hz	
Power consumption	0.58 A	0.58 A	2.9 A
LED display panel	80.7 W* <sup>1</sup> (aspect ratio 16:9)	80.7 W* <sup>1</sup>	403.5 W* <sup>1</sup> (aspect ratio 16:45)
Screen dimensions	608 mm (W) × 342 mm (H), 697.6 mm (diagonal) / 23.94" (W) × 13.46" (H), 27.47" (diagonal)	608 mm (W) × 342 mm (H), 697.6 mm (diagonal) / 23.94" (W) × 13.46" (H), 27.47" (diagonal)	608 mm (W) × 342 mm (H), 1 814.9 mm (diagonal) / 23.94" (W) × 13.46" (H), 71.45" (diagonal)
Number of pixels	82 944 pixels (384 horizontal × 216 vertical)	82 944 pixels (384 horizontal × 216 vertical)	414 720 pixels (384 horizontal × 1 080 vertical)
Operating condition	Temperature: 0 °C – 40 °C (32 °F – 104 °F)* <sup>3</sup> Humidity: 10 % – 80 % (no condensation)		
Operating time	24 hours/day		
Terminals	Power input terminal × 1 Power output terminal × 1 LED drive input terminal × 1 LED drive output terminal × 1	Power input terminal × 1 Power output terminal × 1 LED drive input terminal × 1 LED drive output terminal × 1	Power input terminal × 1 LED drive input terminal × 1
Dimensions (W × H × D)	608 mm × 342 mm × 29.5 mm / 23.94" × 13.46" × 1.16"	608 mm × 342 mm × 29.5 mm / 23.94" × 13.46" × 1.16"	608 mm × 1 710 mm × 29.5 mm / 23.94" × 67.32" × 1.16"
Mass	Approx. 4.9 kg / 10.80 lbs	Approx. 5.0 kg / 11.02 lbs	Approx. 27.5 kg / 60.63 lbs
Cabinet material type	ALUMINUM DIE CAST		

\*1 Shipping condition

\*2 For the V-type display, it is a reference for the size based on the diagonal dimension of the effective screen area.

\*3 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)

#### Note

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

Model No.	TY-FD19AS1	TY-FD19AS1B	TY-FD19AS6
Device type		Cabinet Module	
Power supply	0.52 A	0.52 A	3.12 A
Power consumption	78.2 W <sup>*1</sup>	78.2 W <sup>*1</sup>	469.2 W <sup>*1</sup>
LED display panel	27.5 type <sup>*2</sup> (aspect ratio 16:9)	SMD 1.9-mm pitch 27.5 type <sup>*2</sup> (aspect ratio 16:9)	84.3 type <sup>*2</sup> (aspect ratio 16:54)
Screen dimensions	608 mm (W) × 342 mm (H), 697.6 mm (diagonal) / 23.94" (W) × 13.46" (H), 27.47" (diagonal)	608 mm (W) × 342 mm (H), 697.6 mm (diagonal) / 23.94" (W) × 13.46" (H), 27.47" (diagonal)	608 mm (W) × 2 052 mm (H), 2 140 mm (diagonal) / 23.94" (W) × 80.79" (H), 84.25" (diagonal)
Number of pixels	57 600 pixels (320 horizontal × 180 vertical)	57 600 pixels (320 horizontal × 180 vertical)	345 600 pixels (320 horizontal × 1 080 vertical)
Operating condition	Temperature: 0 °C – 40 °C (32 °F – 104 °F) <sup>*3</sup> Humidity: 10 % – 80 % (no condensation)		
Operating time	24 hours/day		
Terminals	Power input terminal × 1 Power output terminal × 1 LED drive input terminal × 1 LED drive output terminal × 1	Power input terminal × 1 Power output terminal × 1 LED drive input terminal × 1 LED drive output terminal × 1	Power input terminal × 1 LED drive input terminal × 1
Dimensions (W × H × D)	608 mm × 342 mm × 29.5 mm / 23.94" × 13.46" × 1.16"	608 mm × 342 mm × 29.5 mm / 23.94" × 13.46" × 1.16"	608 mm × 2 052 mm × 29.5 mm / 23.94" × 80.79" × 1.16"
Mass	Approx. 4.9 kg / 10.80 lbs	Approx. 5.0 kg / 11.02 lbs	Approx. 32.5 kg / 71.66 lbs
Cabinet material type	ALUMINUM DIE CAST		

<sup>\*1</sup> Shipping condition

<sup>\*2</sup> For the V-type display, it is a reference for the size based on the diagonal dimension of the effective screen area.

<sup>\*3</sup> 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)

#### Note

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

## Disposal of Old Equipment

### Only for European Union and countries with recycling systems



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, 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.

## 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**

Manufactured by:

Panasonic Projector & Display Corporation  
2-15 Matsuba-cho, Kadoma City, Osaka 571-8503, Japan

Importer:

Panasonic Connect Europe GmbH  
Hagenauer Strasse 43, 65203 Wiesbaden, Germany  
Authorized Representative in EU:  
Panasonic Connect Europe GmbH  
Panasonic Testing Centre  
Winsbergring 15, 22525 Hamburg, Germany

Importer for UK:

Panasonic Connect UK,  
a branch of Panasonic Connect Europe GmbH,  
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

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**Panasonic Projector & Display Corporation**

2-15 Matsuba-cho, Kadoma City, Osaka 571-8503, Japan  
Web Site: <https://docs.connect.panasonic.com/prodisplays/>

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