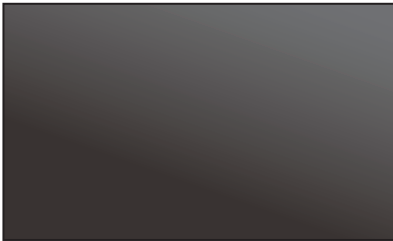


## Operating Instructions

LED MODULE For business use

English

Model No. **TY-MD12AS1**  
**TY-MD15AS1**  
**TY-MD19AS1**



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- Please read these instructions before operating your set and retain them for future reference.
- This device is a dedicated system component for the TL-110AD12AW/TL-137AD15AW/TL-165AD19AW unit which is separately sold from the unit.  
This device cannot be purchased or used separately from the above-named unit.
- Illustrations and screens in this Operating Instructions are images for illustration purposes, and may be different from the actual ones.

**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.

# 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 install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 7) Only use attachments / accessories specified by the manufacturer.
- 8) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 9) 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.

# Important Safety Notice

**WARNING**

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.

**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.

# Safety Precautions

## WARNING

### ■ Setup

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

Improper installation may result in death or serious injury.

- TY-MD12AS1 should only be used with a cabinet module (TY-FD12AS4/TY-FD12AS1/TY-FD12AS1B).
- TY-MD15AS1 should only be used with a cabinet module TY-FD15AS5/TY-FD15AS1/TY-FD15AS1B).
- TY-MD19AS1 should only be used with a cabinet module (TY-FD19AS6/TY-FD19AS1/TY-FD19AS1B).
- To prevent the unit from falling, make sure there are no gaps between the cabinet and the unit before installing it.
- 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.

### ■ When using the unit

**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 Cabinet Module 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.

**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 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 subject the unit to excessive force or impact.**

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

**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.**

# 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.

- Please read through the Operating Instructions for the Cabinet Module.

**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.

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

## ■ When using

**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.

## ■ 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.

**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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TY-MD12AS1

TY-MD15AS1

TY-MD19AS1



## Attention

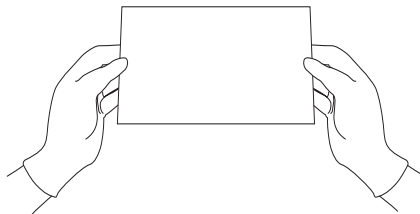
- The LED Module is sealed to prevent moisture from coming inside. Do not open the package before use.
- When unpacking the LED Module, take it out from the packaging bag carefully to avoid damaging it.
- Store small parts in an appropriate manner, and keep them away from young children.
- The part numbers 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

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When installing the unit, do not touch it with bare hands to protect it from static electricity damage and skin oil stains.

When carrying the LED Module, hold its both sides.



# Installation and Removal

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Read the Installation Instructions for TL-110AD12AW/TL-137AD15AW/TL-165AD19AW.

To download the Installation Instructions, please visit the Panasonic website (<https://docs.connect.panasonic.com/prodisplays/>).



# Specifications

<b>Model No.</b>	<b>TY-MD12AS1</b>
<b>Device type</b>	LED Module
<b>Power supply</b>	4.3 V DC
<b>Panel</b>	SMD 1.27-mm pitch
	13.74 type*1 (aspect ratio 16:9)
<b>Dimensions</b>	304 mm (W) × 171 mm (H), 348.8 mm (diagonal) / 11.97" (W) × 6.74" (H), 13.74" (diagonal)
<b>Number of pixels</b>	32 400 pixels (240 horizontal × 135 vertical)
<b>Operating condition</b>	Temperature: 0 °C – 40 °C (32 °F – 104 °F) *2 Humidity: 10 % – 80 % (no condensation)
<b>Operating hours</b>	24 hours/day
<b>Mass</b>	Approx. 360 g / 0.79 lbs

<b>Model No.</b>	<b>TY-MD15AS1</b>
<b>Device type</b>	LED Module
<b>Power supply</b>	4.3 V DC
<b>Panel</b>	SMD 1.583-mm pitch
	13.74 type*1 (aspect ratio 16:9)
<b>Dimensions</b>	304 mm (W) × 171 mm (H), 348.8 mm (diagonal) / 11.97" (W) × 6.74" (H), 13.74" (diagonal)
<b>Number of pixels</b>	20 736 pixels (192 horizontal × 108 vertical)
<b>Operating condition</b>	Temperature: 0 °C – 40 °C (32 °F – 104 °F) *2 Humidity: 10 % – 80 % (no condensation)
<b>Operating hours</b>	24 hours/day
<b>Mass</b>	Approx. 340 g / 0.75 lbs

<b>Model No.</b>	<b>TY-MD19AS1</b>
<b>Device type</b>	LED Module
<b>Power supply</b>	4.3 V DC
<b>Panel</b>	SMD 1.9-mm pitch
	13.74 type*1 (aspect ratio 16:9)
<b>Dimensions</b>	304 mm (W) × 171 mm (H), 348.8 mm (diagonal) / 11.97" (W) × 6.74" (H), 13.74" (diagonal)
<b>Number of pixels</b>	14 400 pixels (160 horizontal × 90 vertical)
<b>Operating condition</b>	Temperature: 0 °C – 40 °C (32 °F – 104 °F) *2 Humidity: 10 % – 80 % (no condensation)
<b>Operating hours</b>	24 hours/day
<b>Mass</b>	Approx. 350 g / 0.78 lbs

\*1 For the V-type panel, it is a reference for the size based on the diagonal dimension of the effective screen area.

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



## 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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Manufactured by:

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Web Site: <https://docs.connect.panasonic.com/prodisplays/>

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English

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