

## OWNER'S MANUAL

# LG Digital Signage

## (LED SIGNAGE, CONTROLLER)

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Please read this manual carefully before operating your set and retain it for future reference.

LAT140GT82	ACC-14LATB3	LCLG141U	LTAK140-GV
LAT140GT82S	ACC-14LATB4		LTAK140-GV1
LAT140GT83	ACC-LTA14V1		LTAK140-GW
LAT140GT83S	ACC-LTA14V2		LTAK140-GW1
	ACC-LTA14W1		LTAK140-GU
	ACC-LTA14W2		LTAK140-GU1
	ACC-LTA14U1		
	ACC-LTA14U2		

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**WARNING** - This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

## SAFETY PRECAUTIONS

The safety precautions are intended to prevent unexpected danger or harm by helping the user to use the product safely and for its intended purpose.

### **WARNING**

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

### **CAUTION**

If you ignore the caution message, you may be slightly injured or the product may be damaged.

### **WARNING**

Indoor Use Only.

## Precautions for the AC Cable and Power

### WARNING

- Before using an AC cable, make sure it conforms to the national standards.
- Operate the display only from a power source(i.e. voltage) indicated in the product specification.
  - Otherwise the product can be damaged, fire can occur or you may be electrocuted. If you are not sure what type of power supply you have, consult a certified installation company.
- Be sure to connect the AC cable to a grounded power disconnecting device.
  - If you do not you may be electrocuted or injured or the product can be damaged.
- Insert the AC cable securely so that it does not come loose.
  - Poor connection may cause a fire or electric shock.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
  - It can cause electric shock.
- Be careful not to place heavy objects (electronic appliances, clothes, etc.) on or step on the AC cable. In addition, do not bend or pull the AC cable with excessive force.
  - Damaged power cords may cause a fire or electric shock.
- Do not connect the AC cable to a power disconnecting device if it has been damaged by a sharp object.
  - You may be electrocuted.
- Do not insert a conductor (such as a metal chopstick) into the power disconnecting device while the AC cable is connected on the other side of the same power disconnecting device. In addition, do not touch the AC cable directly after removing it from the power disconnecting device.
  - You may be electrocuted.

- If water or any foreign substance enters the product, disconnect the AC cable immediately and contact the service centre.
  - Otherwise, this may cause a fire or electric shock due to damage to the product.
- Keep the AC cable away from heating devices.
  - The cord coating may melt and cause fire or electric shock.
- Never disassemble, repair, or modify the AC cable.
  - This may cause a fire or electric shock.
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- For the power consumption to be zero, the AC cable must be disconnected.

### **CAUTION**

- If there is dust on the AC cable or the power disconnecting device, wipe them clean.
  - Overheating due to layers of dust may cause a fire or electric shock.
- If there is moisture on the AC cable or the power disconnecting device, wipe them clean. In addition, do not touch them if your hands are wet.
  - This may cause an electric shock.
- Do not turn the product on or off by connecting or disconnecting the AC cable. In other words, do not use the AC cable as a switch.
  - This may cause an electric shock or product malfunction.
- Do not disconnect the AC cable while using the product.
  - Electrical shock can damage the product.

## Precautions for Moving the Product

### **WARNING**

- Contact the service centre before moving the product.
  - It may cause electric shock and damage the product.
- Make sure the product is turned off, unplugged, and all cables have been removed before the product is moved.
  - You may be electrocuted or the product can be damaged.
- When moving the product, do not shock or cause an impact on the front panel.
  - You may be electrocuted or the product can be damaged.
- Use the correct number of people according to the weight of the product. (Under 25 kg per person use lifting equipment when exceeding 100 kg)
  - If use the damaged product again, contact the service centre because it can cause electric shock or fire.
- Do not hold it upside down while holding only the stand. (It is for stand supported models only.)
  - This may cause stand warping, panel damage and other types of product damage.

### **CAUTION**

- Do not dispose of the product-packing box. Use it when moving by putting the product in the box to carry it.

## Precautions for Installing the Product

### WARNING

- Contact the service centre before installing the product.
  - It can cause electric shock and damage the product.
- Do not drop an object on or impact on the product. Keep out of reach of children and do not place toys or objects near the product to prevent throwing things on the product screen.
  - It can cause injury to human, problem to product and damage the display.
- Do not put heavy objects on, or hang from, the product.
  - If the product collapses or is dropped, you may be injured.
- Do not touch the surface of the product if it overheats.
  - It can cause injury to human.
- Install the product firmly fixed on a floor, wall, etc. to prepare against external impact such as wind and earthquake.
  - You must refer to the manual provided.
- Prevent Children from climbing or hanging on the product.
  - If the product collapses or is dropped, you may be injured.
- Do not install it where there are heating devices such as electrical heaters or lighting equipment.
  - Fire, electrical shock, malfunction may occur.
- Do not install this product by yourself as you may injure yourself or cause damage to the product. Please contact service engineer authorised by service centre.
- Do not install this product on a wall if it could be exposed to oil or oil mist.
  - This may damage the product and cause it to fall.
- Do not leave the AC cable, signal cables, etc. in one's walking path.
  - This could cause a trip or fall, which could cause an electrical shock, fire, product breakdown, or injury.
- Do not let the product drop when connecting it to an external device connected with a short cable.
  - This may cause injury and damage to the product.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord and contact the service centre.
  - If you continue to use without taking proper measures, electrical shock or fire can occur.
- Install the product in a dry place where it is not near dust and water. Avoid high temperatures and humidity.
  - This may cause electrical shock, fire or product damage.
- Safely install the product in a place that can hold the weight of the product.
  - A lack of strength may cause the product to fall.
- Take a comfortable and natural position to relax the muscles when working with a product.
- A readily accessible disconnect device shall be incorporated external to the equipment. The maximum rating of an overcurrent protective device to be provided external to the equipment may be one of the protective device ratings available in the country of installation.

 **CAUTION**

- Install the product where no Electromagnetic Interference occurs.
- If you install the product in a place that does not meet the recommended conditions, this may cause serious damage to the product's picture quality, life cycle, and appearance. Please check with service engineer before installing. Please do not install the product in places such as where there is an abundance of fine dust or oil mist, chemical substances are used, exposed to direct sunlight, the temperature is very high or low, the humidity is very high.
- Make sure the product is well ventilated by installing at a distance (100 mm or more) from the wall.
  - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat buildup.
- When the AC cable is connected, make sure that the vents are not blocked by tablecloths, curtains, or other objects (such as plastic).
  - The product can be deformed or fire can break out due to overheating inside the product.
- Do not install the product in an area with poor ventilation (e.g. on a bookshelf, in a closet) or outside and avoid placing on cushions or carpets.
  - The product could catch fire due to overheating inside the product.
- Install the product on a flat and stable place that is large enough to support the product.
  - If the product is dropped, you may be injured or the product may be broken.
- When installing the product on a shelf or cabinet, make sure that the bottom end of the product is not protruding forward.
  - The product may fall due to unbalanced centre of gravity, which may cause personal injury or damage to the product. Be sure to use cabinets or shelves that fit your product.

## Precautions for Cleaning the Product

### WARNING

- Keep the product clean at all times.
  - If you don't clean the unit for a long time and it becomes covered in dust, it can cause fire or product damage.
- When you need to clean the inside of the product, you must contact the service centre.
  - Otherwise, cleaning without support may cause a fire, electric shock, or damage to the product.
- When cleaning the product, disconnect the AC cable and wipe it gently with a soft cloth to prevent scratches.
  - An electric shock may occur or damage to the screen if its scratched.
- Do not hit the display panel physically with sharp objects.
  - This may cause damage to the product.
- To clean the product, use an air gun to lightly remove dust from the front frame and the screen.
  - If there are foreign substances in between the LEDs on the screen, it may cause a defect on the screen.

### CAUTION

- When cleaning the product or the screen, unplug the power cord and wipe it gently with a soft cloth. Do not spray water or other liquids directly on the product. Especially, do not clean your product with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol, etc., which can damage the product or its panel.
  - This may result in fire, electric shock or product damage (deformation, corrosion or breakage).
- If there is excessive dust or strains, gently wipe using a cleaning cloth dampened with a small amount of water or screen cleaner solution.
  - Cleaning with a liquid solution that is alkaline or acidic may cause damage to the surface.

## Precautions for Using the Product

### **WARNING**

- Do not use the product in any environment with excessively high temperatures or humidity.
  - It may cause electrical shock or damage the product.
- If you use the product for a long period of time, take a rest from time to time to protect your vision.
  - Extended viewing could result in impaired vision.
- Listening at high volume or using for a long time can cause damage to your hearing.
- If water or any foreign substance enters a unit, turn off the unit, disconnect it from the AC cable, and contact the service centre.
  - Otherwise, the product may cause fire or electric shock.
- In the event that no image appears on the screen or no sound is heard, stop using the product. Disconnect the AC cable from the power disconnecting device immediately and contact the service centre.
  - Otherwise, the product may cause fire or electric shock.
- Do not drop an object or impact on the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- If there is smoke or a strange sound or smell, disconnect the AC cable and contact the service centre.
  - If you continue to use the product without taking proper measures, it may cause electrical shock or fire.
- Do not attempt to disassemble, repair or modify the product yourself. Please contact service centre if you need to repair it.
  - Fire or electric shock can occur.
- Do not place objects filled with liquids such as vases, cups etc. on or over the product to prevent liquid from entering the product.
  - Failure to do so may result in fire, electric shock, malfunction or deformation.
- The product must be installed in an environment out of human reach. If a person touches the product, its performance may deteriorate. If the product needs to be installed in a place where human contact with the product is likely, a separate measure to prevent people from touching it needs to be taken.
- Do not push hard on or scratch the product's surface with your hands or sharp objects, such as nails, pencils or pens. Do not shock or scratch the front and sides of the screen with metallic objects.
  - This may damage the products and cause it to malfunction.
- Do not touch the product if it has been exposed to sunlight or an intense light because it could be hot.

- Do not use high voltage electrical goods near the product (e.g., a bug zapper).
  - This may result in product malfunction if it receives an electrical shock.
- If there is a gas leak, do not touch the outlet, and open the windows for ventilation.
  - Otherwise, the product may cause fire or electric shock.
- If the product or case is dropped and damaged, turn off the power and disconnect the AC cable.
  - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service centre.
- Keep small accessories out of the reach of children.
  - If a child swallows it, consult a doctor immediately.
- Keep out of reach of children from the product. Also, do not throw toys or objects to the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- To shut off the power of the unit, you must disconnect all connected AC cables.

**CAUTION**

- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected.
- Do not put or store inflammable substances near the product.
  - There is a danger of explosion or fire.
- Keep the proper distance from the product.
  - It can cause damage to your vision if you look at the product too closely.
- Set the appropriate resolution and frequency by products.
  - It can cause damage to your vision.
- Take a regular break when working with the product for a long time.

## Precautions for Experiencing Image Retention

- Displaying a still image for a prolonged period of time may cause damage to the screen, resulting in image retention. Most third-party products have the same issue. The resulting damage is not covered by the product warranty.
  - Use a screen saver when using the monitor for a prolonged period of time.

## Product Disposal

- Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

# ASSEMBLING AND PREPARING

## CAUTION

- Always use genuine components to ensure safety and product performance.
  - The product warranty will not cover damage or injury caused by the use of counterfeit components.
- Connect the power cord to the product before you plug it into a wall outlet.
  - Plugging the power cord into a wall outlet first may cause an electric shock, which can damage the product.
- When installing or using this product, be cautious of damaging the product or safety accident due to negligence.
- If you do not fully understand the instructions in this manual, do not install the product and contact the service centre.
- Check the accessories provided with the model before installation.
  - We will not be responsible for missing or damaged accessories after the internal packaging is damaged.
- Keep out of reach of children, as various safety accidents such as suffocation can occur if an infant or child swallows the accessories provided with the product.
- Make sure that the screws are completely tightened.
  - Tightening the screws with excessive force may damage the wall, degrade the performance and solidity of the product, or damage the product.
- Do not install display products that are heavier than the designated weight and make sure that external force is not applied.
- Be cautious of safety accidents when handling tools for installing the product.
- Before installation, remove accessories (watch, bracelet, etc.) that can damage the coloured, transparent film.
- Applying excessive force may damage the product.
- There is no problem if fine bubbles are not visible to the naked eye at a distance of 1 m from the light-emitting surface of the product.

## NOTE

- The accessories provided with your product may vary depending on the model.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.
- The warranty will not cover any damage caused by using the product in an excessively dusty environment.
- Up to 4 films are supported per 210 W adapter. (LAT140\*, LTAK140-GV\*)
- Up to 2 films are supported per 210 W adapter. (LTAK140-GW\*, LTAK140-GU\*)
- Up to 18 1st bezel kits can be connected to a LAN port.
- Up to 14 common bezel kits can be supported by a 1st bezel kit.
- For adapter cable extension, use an approved standard cable.

## **WARNING**

- The warranty will not cover any component damage caused by electrostatic discharge at the time of installation. When installing this product, you must wear anti-electrostatic discharge (ESD) gear.
- There should be no oil, water, dust and foreign substance on the glass surface where the coloured, transparent LED film will be installed.
- Do not use surfactant-containing products for cleaning. It compromises the film's adhesive strength.
- It is recommended that you use dedicated tools (for film attachment) when installing the film.
- Workers should wear masks and antistatic gloves and be careful not to allow foreign objects to adhere to the product or the glass surface.
- The coloured, transparent LED film should not be folded or wrinkled, and once attached, should not be separated from the glass.
- Be cautious when handling the coloured, transparent LED film because it is vulnerable to static electricity and foreign substances.
- After opening the product, install it immediately or within 1 month at the latest.
- Applying strong physical impact on the installed film surface may damage the product.

### **Required Items for Installation**

Oil-based marker, mask, antistatic gloves, the Phillips-head screwdriver, wool putty knife, (steel) ruler

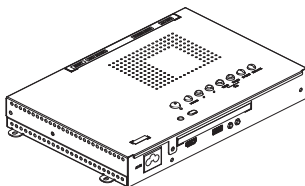
### **Installation Preparation**

- Leave 1-2 mm of the gap between the aluminium bars when attaching them to the glass surface.
  - A pressure of 5 to 7 kgf is needed when attaching to the glass surface.

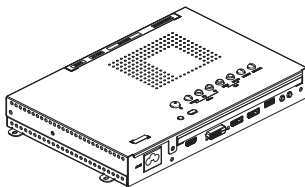
## Optional Accessories

Without prior notice, optional accessories are subject to change to improve the performance of the product, and new accessories may be added. The illustrations in this manual may differ from the actual product and optional accessories.

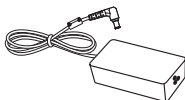
CTAA-140G



LCLG002-T



ACC-LATP1



### ! NOTE

- Optional accessories are only available for some models. If necessary, please purchase them separately.

Parts

The illustrations may differ depending on the model.

LAT140GT82\*, LAT140GT83\*, LTAK140-GV\*, LTAK140-GW\*, LTAK140-GU\*



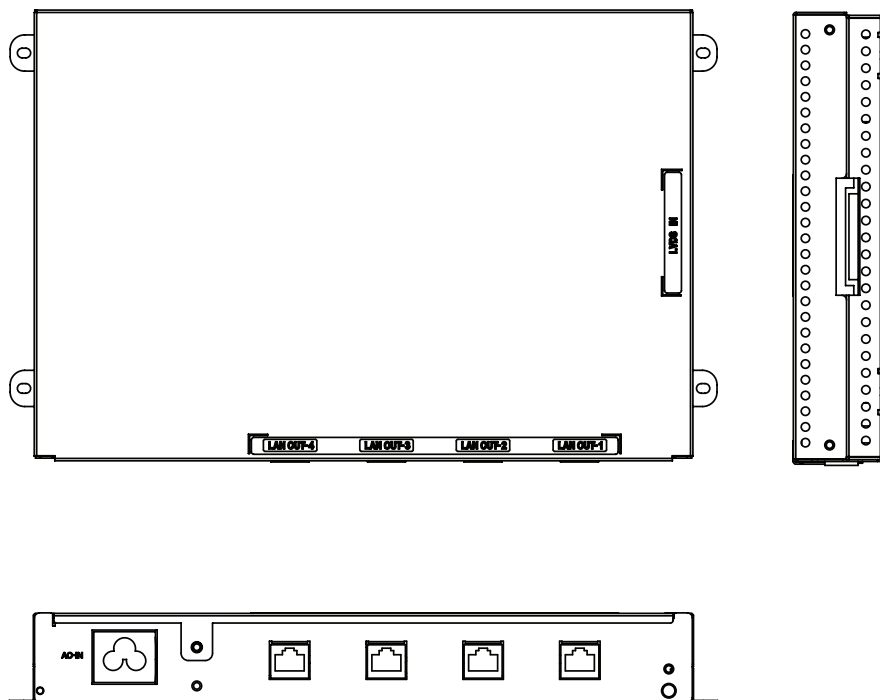
ACC-14LATB3, ACC-LTA14V1, ACC-LTA14W1, ACC-LTA14U1



ACC-14LATB4, ACC-LTA14V2, ACC-LTA14W2, ACC-LTA14U2



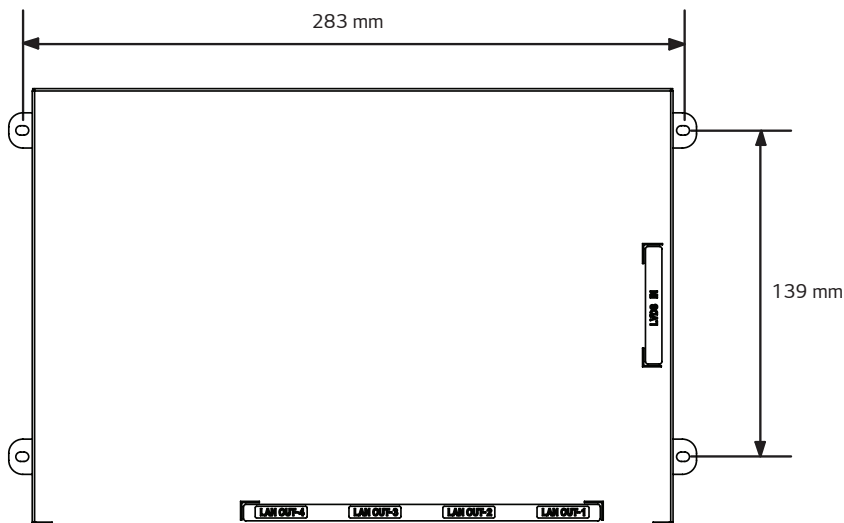
## LCLG141U



## Installing on a Wall

Fix the assembled set on a desired place.

**LCLG141U**



## Installation Considerations

(Film Panel)

- Make sure the ambient temperature is within the operating temperature when installing the product.
  - 0 °C to 45 °C (without direct sunlight)
  - 0 °C to 30 °C (in direct sunlight)
- Make sure the installation structure does not block the flow of indoor air.
- If the product is not affected by indoor air conditioning or if the indoor air conditioner is not operated for a long time, installation of a separate air conditioner (such as a circulator) may be necessary.

# TROUBLESHOOTING

## No image is displayed.

- Is the AC cable connected to the product?
  - Make sure the AC cable is properly connected to the power disconnecting device.
- Is the 'No Signal' message displayed?
  - There is no connection between CTAA-140G, LCLG002-T and the input source. Check the connection status of the LAN cable.
  - Access the Input menu to check the input source.
- Does the 'Invalid Mode' message appear?
  - Refer to the manual of CTAA-140G, LCLG002-T.

## The 'Unknown Product' message appears when the product is connected.

- Did you install the driver?
  - Refer to the manual of CTAA-140G, LCLG002-T.

## The screen image looks abnormal.

- Is the screen position wrong?
  - Refer to the manual of CTAA-140G, LCLG002-T.
- The screen is displayed abnormally.
  - The proper input source is not connected to the port. Connect a cable that matches the input source signal.
- The screen flickers or shakes.
  - Check if CTAA-140G, LCLG002-T is powered off.

**The display colour is abnormal.**

- Screen has poor colour resolution (16 colours).
  - Refer to the manual of CTAA-140G, LCLG002-T.
- The screen colour is unstable or looks black and white.
  - Refer to the manual of CTAA-140G, LCLG002-T.
- Does a black dot appear on the screen?
  - The few pixels (red, green, blue, white and black) that appear on the screen are due to the inherent characteristics of the LED surface. This is not a malfunction of the Screen.

**The operation does not work normally.**


- The power suddenly turned off.
  - Refer to the manual of CTAA-140G, LCLG002-T.

**! NOTE**

- Without prior notice, the software is subject to change to improve the functionality of the product.
- The above items are only applicable to the LAT140GT82\*, LAT140GT83\*, LTAK140-GV\*, LTAK140-GW\*, LTAK140-GU\*, ACC-14LATB3, ACC-14LATB4, ACC-LTA14V\*, ACC-LTA14W\*, ACC-LTA14U\*, LCLG141U model. Please read "TROUBLESHOOTING" in the manual of CTAA-140G, LCLG002-T.

# PRODUCT SPECIFICATIONS

Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.

The ~ symbol means alternating current, and the symbol  means direct current.

Film Panel	Screen Type	Film Panel
Usage Condition	Daily Usage Time	24 hours (video)
Video Signal	Synchronization	Digital
Input/Output Ports	LCLG141U	LVDS IN, LAN OUT
	ACC-14LATB3	LAN IN, DC IN
	ACC-LTA14V1	
	ACC-LTA14W1	
	ACC-LTA14U1	
Embedded Battery	Not applicable.	
Environmental Conditions	Operating Temperature	0 °C to 45 °C
	Operating Humidity	10 % to 70 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	5 % to 85 %

## LCLG141U

Power	Power Rating	100-240 V ~ 50/60 Hz 0.5 A
	Power Consumption	On Mode: 20 W (Typ.)
Dimensions (Width x Height x Depth) / Weight		293 X 188.7 X 37 (mm) / 1.5 (kg)

**LAT140GT82\*, LAT140GT83\***

Film Panel	Pixel pitch	14 mm (H) x 14 mm (V)		
Power	Power Consumption	LAT140GT82* LAT140GT83*	On Mode: 37 W (Typ.)	
Dimensions (Width x Height x Depth) / Weight		LAT140GT82*	Film	492 x 655 x 2.9 (mm) / 1.0 (kg)
		LAT140GT83*	Module	492 x 655 x 2.9 (mm) / 1.0 (kg)
- The installation is only available for glass with a radius of more than 2,000 mm.				

**LTAK140-GV\***

Film Panel	Pixel pitch	14 mm (H) x 14 mm (V)		
Power	Power Consumption	LTAK140-GV*	On Mode: 37 W (Typ.)	
Dimensions (Width x Height x Depth) / Weight		LTAK140-GV*	Film	492 x 655 x 2.6 (mm) / 0.97 (kg)
			Module	492 x 655 x 2.6 (mm) / 0.97 (kg)
- The installation is only possible on glass material.				


**LTAK140-GW\***

Film Panel	Pixel pitch	14 mm (H) x 14 mm (V)		
Power	Power Consumption	LTAK140-GW*	On Mode: 75 W (Typ.)	
Dimensions (Width x Height x Depth) / Weight		LTAK140-GW*	Film	492 x 655 x 2.9 (mm) / 1.0 (kg)
			Module	492 x 655 x 2.9 (mm) / 1.0 (kg)
- The installation is only available for glass with a radius of more than 2,000 mm.				


**LTAK140-GU\***

Film Panel	Pixel pitch	14 mm (H) x 14 mm (V)		
Power	Power Consumption	LTAK140-GU*	On Mode: 75 W (Typ.)	
Dimensions (Width x Height x Depth) / Weight		LTAK140-GU*	Film	492 x 655 x 2.6 (mm) / 0.9 (kg)
			Module	492 x 655 x 2.6 (mm) / 0.9 (kg)
- The installation is only available for glass with a radius of more than 2,000 mm.				


**ACC-14LATB\*, ACC-LTA14V\***

Power	Power Rating	ACC-14LATB3 ACC-LTA14V1	19.5 V  10.8 A
		ACC-14LATB4 ACC-LTA14V2	
	Power Consumption	ACC-14LATB3 ACC-LTA14V1	On Mode (including 2 x 2 Film): 150 W (Typ.)
		ACC-14LATB4 ACC-LTA14V2	
Dimensions (Width x Height x Depth) / Weight		ACC-14LATB3 ACC-LTA14V1	492 x 69.4 x 25 (mm) / 0.37 (kg)
		ACC-14LATB4 ACC-LTA14V2	492 x 51.4 x 25 (mm) / 0.26 (kg)

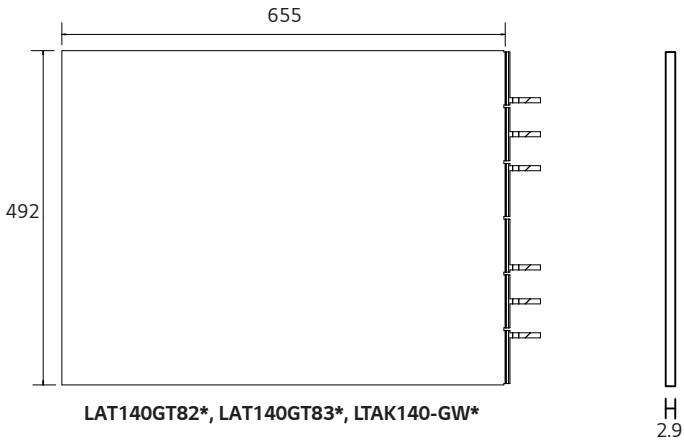
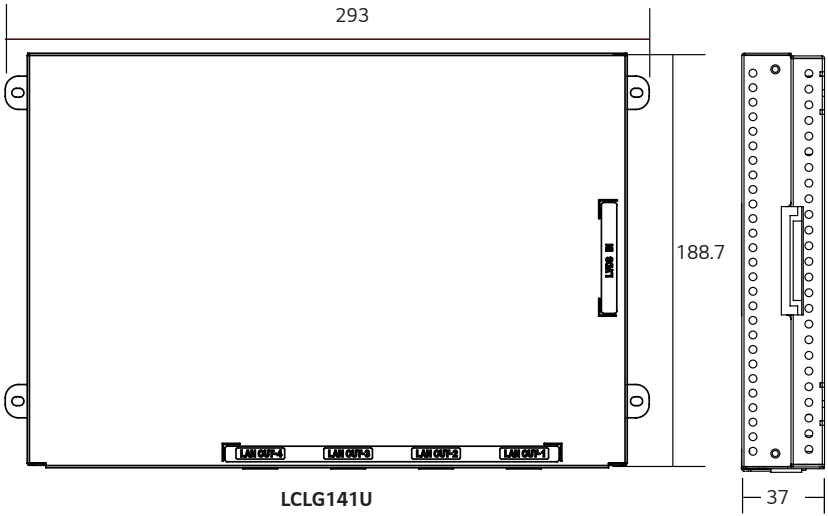
**ACC-LTA14W\***

Power	Power Rating	ACC-LTA14W1	19.5 V  10.8 A
		ACC-LTA14W2	
	Power Consumption	ACC-LTA14W1	On Mode (2 Film): 150 W (Typ.)
		ACC-LTA14W2	
Dimensions (Width x Height x Depth) / Weight		ACC-LTA14W1	492 x 69.4 x 25 (mm) / 0.37 (kg)
		ACC-LTA14W2	492 x 51.4 x 25 (mm) / 0.26 (kg)

**ACC-LTA14U\***

Power	Power Rating	ACC-LTA14U1	19.5 V  10.8 A
		ACC-LTA14U2	
	Power Consumption	ACC-LTA14U1	On Mode (2 Film): 150 W (Typ.)
		ACC-LTA14U2	
Dimensions (Width x Height x Depth) / Weight		ACC-LTA14U1	492 x 69.4 x 25 (mm) / 0.39 (kg)
		ACC-LTA14U2	492 x 51.4 x 25 (mm) / 0.26 (kg)

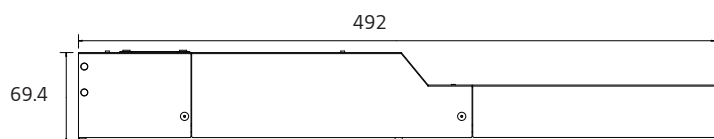
[Unit: mm]



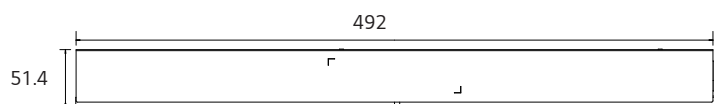


**LTAK140-GV\*, LTAK140-GU\***

H  
2.6



**ACC-14LATB3, ACC-LTA14V1, ACC-LTA14W1, ACC-LTA14U1**



**ACC-14LATB4, ACC-LTA14V2, ACC-LTA14W2, ACC-LTA14U2**

H  
25



The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

Temporary noise is normal when powering ON or OFF this device.