

# GL7000 Display Module USER'S MANUAL

Thank you very much for buying this GRAPHTEC product.

This product is a display module for recording.  
Please use it by installing it on the main module.

These directions describe preparations and cautions before measurement.

**For the details concerning operation procedures etc., read the User's manual recorded on the CD-ROM (included with the main module)**

## Confirmation of the exterior

After opening the package, please confirm that there are no problems (scratches and dirt) on the exterior before use.

## Confirmation of the attached items.

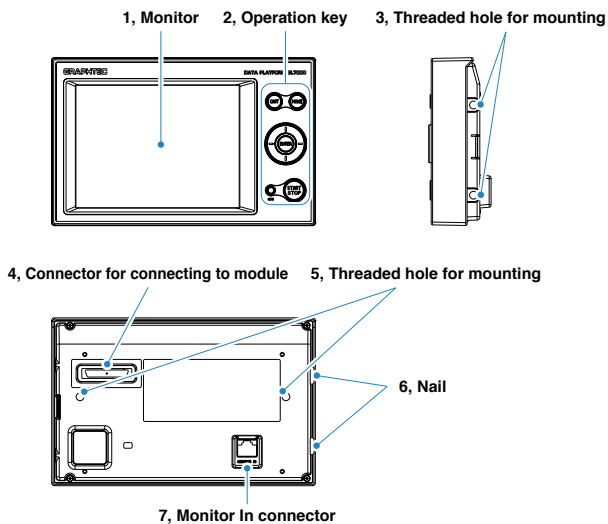
- Instruction manual (this book): 1
- Tilting table: 1 module
- Monitor connection cable (40 cm): 1 pc.
- Screws (M4x6): 3 pcs.
- Ground cable: 1 pc.
- Flat Head Screws (M4 x 10) 2 pcs. (Spare)

If by any chance faults are found, please contact the store where you bought the item.

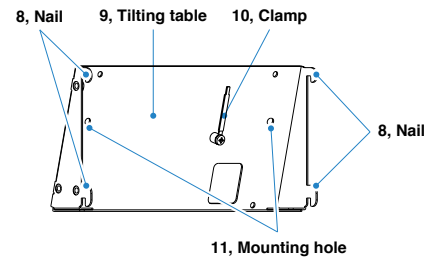
\* Please note that items mentioned in this book may change without prior notice.

## 1 Part Names

### Explanation of the module's part names and functions.



- 1, Monitor**
- 2, Operation key**
- 3, Threaded hole for mounting...** Threaded hole for fixing to the main module
- 4, Connector for connecting to module..** Connector for connecting to the main module
- 5, Threaded hole for mounting..** Threaded hole for fixing to the tilting table (M4 Approx depth 5 mm)
- 6, Nail.....** Threaded hole for fixing to the tilting table (2 places)
- 7, Monitor In connector.....** Connector for use when extending cables, and when using the tilting table



- 8, Nail.....** Nails for fixing to the main module (4 places)
- 9, Tilting table**
- 10, Clamp.....** Clamp for binding the monitor connection cable
- 11, Mounting hole.....** Threaded hole for fixing to the display module

## 2 How to Install Module

This explains how to attach the module to the main module.

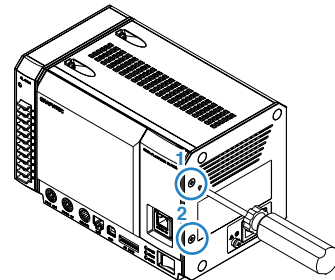
**CAUTION** When installing or removing the module, please make sure that the power is off.

The display module has 3 basic positions.

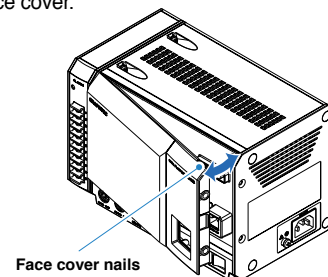
- A. When the main module is attached...** fitting to the main module.
- B. When using the tilting table...** Use the tilting table (at a 15° tilt angle) to fit to the main module.
- C. When extending cables...** Use a commercially available LAN cable, and attach to a place separated from the display module on the main module.

### A. This explains how to install when attaching the main module.

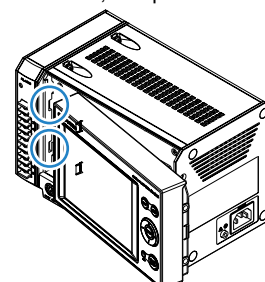
- 1, Remove fixation screws from the main module (2 places on the side)



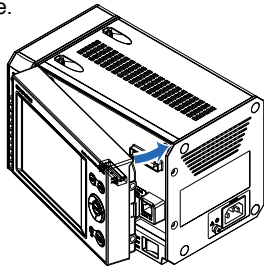
- 2, Pull the nail on the upper-right side of the face cover, and remove the face cover.



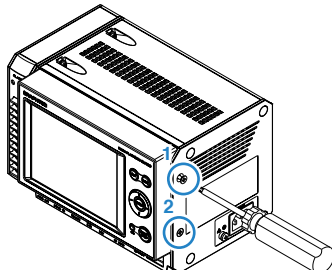
- 3, Join the nails on the back of the display module with the inset part of the main module, and push it in.



- 4, Join the display module with the module connector, and insert into the main module.



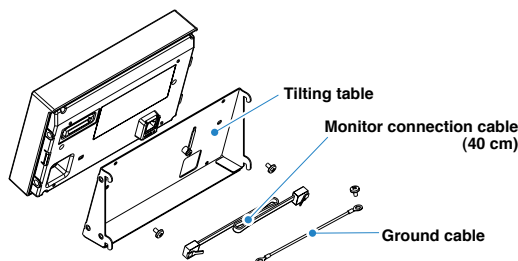
- 5, Attach the fixation screws of the main module (2 places on the side).



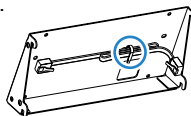
During installation, a 4kgf.cm screw tightening torque is recommended.

### B. This explains how to attach the tilting table for use.

(After the main module's face cover is removed)

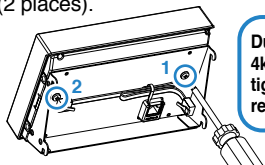


- 1, Install by binding the monitor connection cable with the clamp on the tilting table.



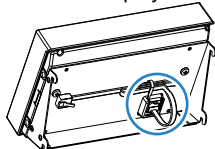
Bind so that there is approx. 25 cm between the monitor connection cable and the connector.

- 2, Attach the display module to the tilting table with the attached fixation screws (2 places).

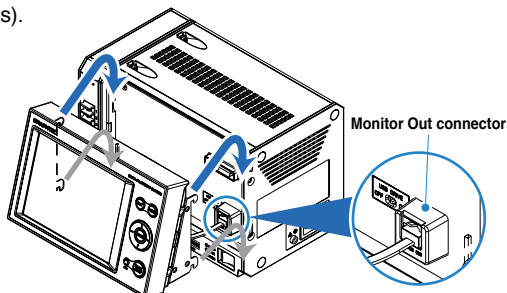


During installation, a 4kgf.cm screw tightening torque is recommended.

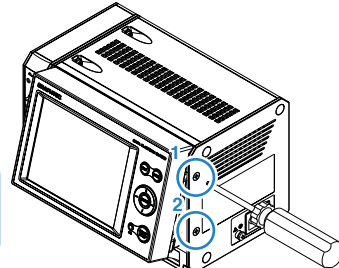
- 3, Connect the connector of the monitor connection cable to the monitor in connector of the display module.



- 4, Connect the monitor connection cable to the monitor out connector of the main module and attach the 4 point nails on the tilting table by fixing them to inset part of the main module (4 places).

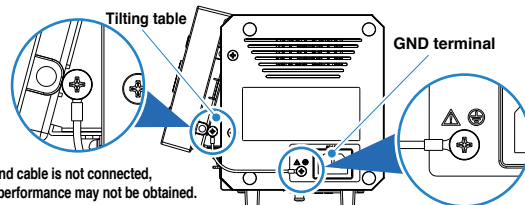


- 5, Attach the fixation screws on the main module (2 places on the side).



During installation, a 4kgf.cm screw tightening torque is recommended.

- 6, Attach the ground cable to the main module (GND terminal) with the fixation screws attached to the tilting table.

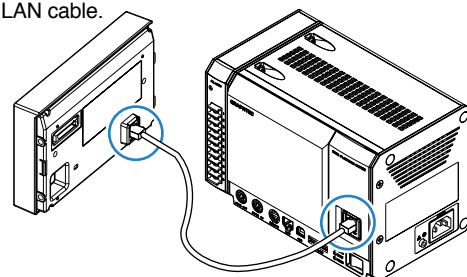


\* If the ground cable is not connected, sufficient performance may not be obtained.

### C. This explains installation when extending cables.

(After the main module's face cover is mounted)

- 1, Connect the monitor out contact on the main module and the monitor in contact on the display module with a commercially available LAN cable.



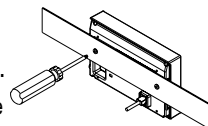
#### Please note the specifications of the LAN cable you use.

[LAN Cable specifications]

• Type: Straight cable • Category: CAT5 or above • Cable length: 10 m or less

#### CAUTION

- Please use the display module fixed to a board, etc.
- Please do not connect a LAN cable with the monitor in connector of the display module and the LAN connector of the GL7000 main module.



## 3 Specifications

### GL7-DISP (Display Module) Specifications

Item	Contents
Display device	5.7" TFT color liquid crystal display (VGA: 640 x 480)
Operating portion	Capacitive touch-panel and key shared use * Almost all operations can be performed by either the touch-panel or the keys.
touch-panel	Input method: Finger Operating life: Approx. 50,000,000 times * It depends on the status of use, etc.
Display characters	Japanese, English, French, German, Chinese, and Korean
Backlight	Screen saver function (10, 30 sec.; 1, 2, 5, 10, 30, 60 min.)
Backlight life	50,000 hours (when brightness has decreased to 40%), changes according to use environment
Display screen	Waveform + digital screen, full waveform screen, digital + operation screen, X-Y display * CH number and display CH are designated for when the display of the digital + operation screen is digitally enlarged
Connection cable (For cable extension)	LAN cable (straight, CAT5 and above, cable length 10 m or less) * Please purchase a commercially available product
Accessories	Tilting table 1 module Monitor connection cable (40 cm) 1 pc. Screws (M4 x 6) 3 pcs. Flat Head Screws (M4 x 10) 2 pcs. (Spare) Ground cable 1 pc.
External dimensions [WxDxH] (approximate)	187 x 34.5 x 119 mm (Not including protruding parts)
Weight	530g (Not including the tilting table)

Since the touch-panel in this module is a capacitive touch-panel, it does not respond by touching it with a pen.

\* Please note that if the touch-panel is operated with an object with a sharp edge, it may scratch and damage the touch-panel.

\* Do not touch when your hands are wet.