## **UPGRADING THE FIRMWARE**

## Note for the firmware upgrading

- (1) Save the measuring condition to the internal memory or the SD card before the firmware upgrade.
- (2) Don't turn off the power during upgrading the firmware.

## How to Upgrade the firmware from the SD card

The display module have to have when upgrade the firmware from the SD card.

(1) Copy the firmware file to a SD card from the computer. Do not copy the firmware to under folder.

Copy the firmware to under main directory of SD card.

MainVerxxxRevxxxAxx.GL7000 (Main Firmware file)

PatternVerxxxRevxxxAxx.GL7000 (Font file)

xxx, xxxx, xx will be changed by the version.

The font file is not necessary to copy if it is not updated.



(2) Insert the SD card containing the upgrade file to the SD card slot of GL7000 Head Module.



(3) Turn on the power to the GL7000.

(4) Press the [ENTER] key when the following menu is displayed.

```
Flash-ROM Update
[Current Information]
MAIN
       ROM Version : 1.00
Suffix
PATTERN ROM Version : 1.00
Suffix
 ---- Select File ----
UP : Select Upper File
DOWN : Select Lower File
ENTER : Start Update
MainVer110Rev0001A00.GL7000
[File Information]
ID : GRAPHTEC GL7000 MAIN ROM
Version: 1.10
                A00
```

(5) Wait until the display shown below appears or until the beeper sound stops. Note:

Don't turn off the GL7000 until this process is finished.

The following message will appear on the GL7000 display in yellow characters when the upgrade is complete. Also the beeper will sound for 5 seconds.

"Update Completed. Please Turn Off Power." (or "Please Turn Off the Power. I have locked up.")

Flash-ROM Update
MainVer110Rev0001A00.GL7000
[File Information]
ID : GRAPHTEC GL7000 MAIN ROM
Version: 1.10 A00
Reading ROM Data
-+42493c
Start MAIN ROM Update Sequence.
Checking Rom Signature
Erase
* * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * *
*****Complete.
Write
***************************************
*****Complete.
ROM Update Complete!!
Update Completed. Please Turn Off Power.

- (6) Turn off the power to the GL7000 when the above message is displayed or when the beeper sound stops.
- (7) Remove the SD card from the SD card slot of GL7000. And delete the program files from a SD card.

This is to avoid upgrading the firmware by mistake.

(8) Turn on the power, and then confirm the firmware was upgraded. The firmware version is shown during the initialization menu.

## How to Upgrade the firmware from the PC

You can upgrade the firmware from the PC if the display module is not installed.

Copy the following files to your PC. (1)

> GL-Config.exe MainVerxxxRevxxxAxx.GL7000 PatternVerxxxRevxxxxAxx.GL7000

(Software to upgrade firmware from the PC)

(Main Firmware file) (Font file)

xxx, xxxx, xx will be changed by the version.

The font file is not necessary to copy if it is not updated.

(2) Connect the PC and the GL7000 with the USB cable via the USB port.



(3) Start up the "GtcUpdate.exe".



The "GL-Config.exe" start up when the icon of GL-Config.exe is double clicked.

(4) The following menu is displayed.



(5) Click the read button to get the information from the GL7000.The model name and the firmware version will be shown in the information menu.

GL-Config				
USB ID	0 💌 (	Set	Format	Execute
LAN IP Address Auto Ac IP Address	quire ⓒ Off 192 168	On 0 1	USB Drive Mode	Set
Subnet Mask Port number	255 255 2 8023	255 0	Information Model Firmware Version	GL7000 0.90
Gateway DNS Address ID Name	192 168 GL7000_01	4 200	Revision Pattern Version OS Version	0014 0.90 3.30
Keep Alive MAC Address	Off 00-03-76-05-0	9-07 Reset	System Version	0
Language Englis	b V Fir	mware Update	Bead	OK

(6) Click the firmware update button.

🖉 GL-Config				X
USB ID	0 🗸	Set [	rmat V	Execute
LAN IP Address Auto Ac IP Address	quire ⊙Off 192 168 0	0 0n [	B Drive Mode Internal FLASH 💌	Set
Subnet Mask Port number Gateway DNS Address ID Name	255 255 255 8023 192 168 4 192 168 4 GL7000_01	0 Info 200 F 200 R 200 P. 0 S	ormation Iodel evision attern Version S Version ystem Version	GL7000 0.90 0014 0.90 3.30 0
MAC Address	00-03-76-05-09-0 Set Re	7 set are Update	Read	ОК

(7) The following menu is displayed. Click the Browse button.

Firmware Up	date	
Model	GL7000	<b>~</b>
File name		Browse
I/F Setting I/F		
⊙ USB	IP Address	192 . 168 . 0 . 1
O TCP/IP	Port number	8023
Header		]
Status		
		Start Close

(8) The following menu is displayed. Select the firmware file, and then click the open button.

Open					? 🛛
Look in (T):	😂 GL7000		v 0	1 🕫 🗔 -	
Recent file	Main Ver090Rev	0015A00.GL700			
	File name (N):			*	Open (O)
My network	File type (T):	Update file (*.GL700	)0)	*	Cancel
		Open as read only	y file (R)		

(9) The following menu is displayed. Click the start button to send the firmware file to the GL7000.

Firmware Up	date	
Model	GL7000	<
File name	MainVer090Rev0015A0	0.GL7000 Browse
I/F OUSB TCP/IP	IP Address Port number	192 , 168 , 0 , 1 8023
Header GRAPHTEC 0 0.90 0015	5L7000 MAIN ROM	
Status		State
		Start Close

(10) The following menu is displayed, during sending the file to the GL7000. And the access LED of GL7000 is blinked.

Model GL	GL7000		
File name Ma	MainVer090Rev0015A00.GL7000 Browse		
I/F Setting	IR Address	192 168	0 1
O TCP/IP	Port number	8023	]
Header			
GRAPHTEC GL7 0.90 0015	000 MAIN ROM		
Status			
Target is detect START Record S Record (190145	ed. Sending Sending		~

(11) The access LED of GL7000 is blinked during sending the file to the GL7000.



- (12) The firmware update is completed when the blinking of access LED was stopped.
- (13) Perform same procedure as the firmware update when update the font file.