

GRAPHTEC

General Purpose Data Acquisition System

Modular Data Acquisition PLATFORM

DATA PLATFORM GL7000

NEW



8 Module Options Offering Various Inputs

Voltage Module GL7-V	Voltage / Temperature Module GL7-M	High Speed Voltage Module GL7-HSV	High Voltage Module GL7-HV	NEW Features Available! DC Strain Gauge Module GL7-DCB	NEW Features Available! Charge (Acceleration) Module GL7-CHA	Logic / Pulse Module GL7-L/P	Voltage Output Module GL7-DCO
10ch /unit Max. 1kS/s (1ms)	10ch /unit Max. 100S/s (10ms)	4ch /unit Max. 1MS/s (1µs)	2ch /unit Max. input voltage 1000V	4ch /unit Max. 100kS/s (10µs) Isolated	Sound input Charge type Built-in amplifier TEDS sensor	16ch /unit Max.* 1MS/s (1µs) <small>*Pulse time: 10kS/s(10µs)</small>	8ch /unit Max. 100kS/s (10µs)

Dual-Sampling Feature

- Dual sampling speed can now be configured at the same time. While recording long intervals on the slow sampling speed, trigger set can start recording dynamic transient signals at a fast sampling speed.

Low-speed sampling (long-term) → <Recording media> Built-in flash memory / SD card
<Sampling speed> 1kS/s (1ms) to 1S/hr

High-speed sampling (after trigger) → <Recording media> Built-in RAM / SSD
<Sampling Speed> 1MS/s (1µs) to 200kS/s (500µs)

Max 112 Channels per main GL7000 platform.

- Module selection can be multivarious. Mix and match to your needs.
- Maintains the maximum sampling speed even when the number of input/output modules are increased *1

10 ch being used, Max. sampling speed 100S/s (10ms interval)

40 ch being used, Max. sampling speed 100S/s (10ms interval)

*1 Maximum sampling speed will depend on the data destination. (RAM and optional SSD module is the fastest, Flash memory, SD Card will be slower.)

Multiple recording media covers both instantaneous measurement and long-term recording.

- Built-in RAM capacity : 2 million samples / channel in each module Dynamic
- 128GB SSD (optional) * Sampling speed depends on module count Dynamic Long Term Recording
- Built-in 4GB flash memory *Max sampling speed at 1kS/s (1ms) NEW Features Available! Long Term Recording
- Compatible with SD card (SDHC: Max.32GB) *Max sampling speed at 1kS/s (1ms) Long Term Recording

Max 4GB Recording

Built-in flash memory **4GB** (Previous models are 2GB)

- Each file can now record up to 4GB of continuous data.

Recording time sample

When recording data from GL7-HSV unit to the GL7-SSD at 4GB file size.

	Sampling Speed
	1MS/s (1µs) 1kS/s (1ms)
Recording Time	268 seconds 84 hours

Improved transfer speed to PC on large data files

Improved transfer speed by **x7-x25** times. (Conditional)

- GL-Connection software now transfers data at a much higher speed from the main unit GL7000 to the PC.

Upgraded During real time PC Data Acquisition using GL-Connection

Temporary files saved on the GL7000 internal RAM and SSD now transfers data at a much faster speed.

Upgraded During standalone data acquisition

Files saved permanently on the GL7-SSD module transfers to PC via the GL-Connection at a much faster speed.

Existing GL7000 users can upgrade your unit free of charge!

- GL7000 denotes the latest version firmware for the main unit, and it is not a new model number.
- The upgraded feature are denoted as GL7000
- Please contact our sales team for more information.
- Users who have already acquired a GL7000 in the past can upgrade to the latest firmware to carry the same feature as new GL7000.
- However, the hardware changes (memory sizes) can not be upgraded.
- Please download the updated firmware file from our official WEB site under the download section.

New firmware for GL7000 Released in Nov. 1st, 2018

Optional tools new line-ups

- Carrying tool (B-585)
- Storage case (B-586)
- Input connector, screw terminal (B-560)

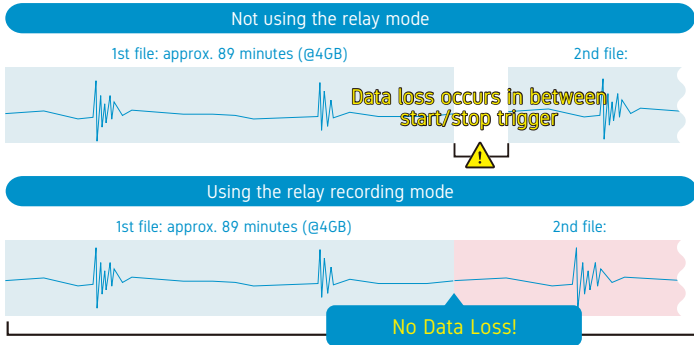
* Can carry 3 modules OR 2 modules +1 SSD

Image is for illustration purposes.

✓ New Relay Recording Function Makes a Long-term High-speed Recording Possible

- Up to 4GB data files can be recorded on a relay mode where no data loss occurs in between the files. This offers long term recording of dynamic data recording.

Example: GL7-HSV
using 1 module / sampling speed 50kS/s (20μs)



✓ Added menu selection for microphones

- Added a menu for sound input by piezo-based microphones on the Charge/Acceleration Module (GL7-CHA).



Application Software Included : Real Time PC Monitoring using GL-Connection

- Multi-Window (Max. 4 Waveforms)
- Able to connect up to 20 units with 2000 channels simultaneous recording.
- Backwards compatible with all GL units (GL7000 · GL2000 · GL980 · GL900 · GL840 · GL820 · GL240 · GL220),

SDK (Software Development Kit) is offered for free. Software Development Kit (SDK) is available for real time data transfer and beyond for custom application developed for your need.

- USB driver
- Manual (Main unit controls, data communication, data file, etc.)
- Sample program (in Visual C++, Visual Basic, .NET framework)
- Key commands have been set as modules for simpler implementation with LabVIEW. (Connection, Waveform Display, Digital Indicator, CSV conversion, file acquisition)

NEW / Higher module has added



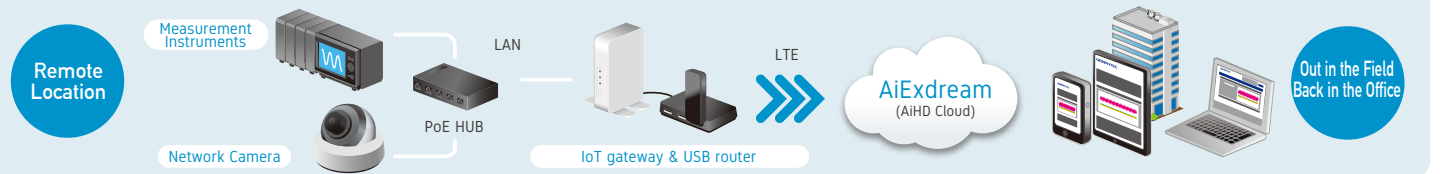
Data analysis with Oscpe/Oscpe2 (ONO SOKKI)
※ GL7000 GBD data can be imported directly to Oscpe.

We've listened! Additional improvements/added features on the GL7000 based on your feedback.

Product	Item	Added / Improved	Detail
GL7000	Set time interval in between trigger repeat	Improved	Trigger repeat can not be activated based on START trigger and STOP trigger with set time interval.
	Setting for the DC Strain Module	Improved	Strain-based sensor and its rated capacity can now be set easily.
	Settings for the CHA Charge/Acceleration Module	Improved	Displays the input terminal (BNC or micro-connector) based on signal input selection.
	Engineering Scaling (EU) unit setting	Improved	Text input for entering custom unit of measurement has improved.
	Start/Stop Message On/Off Feature	Added	Start/stop confirmation message will not have a on/off confirmation message.
	Configuration Setup File	Improved	In addition to the measurement set up conditions, the setup file will also save the communication conditions on the macro file.
	Function Menu	Improved	Easy access to each functions from listed icons.
	Relay Recording	Added	Storage and interval can be set by users.
GL-Connection	Hiding the channels not set to ON	Improved	Digital values for the channels set to OFF will not be displayed
	Cursor Synchronization	Added	When displaying multiple windows, the cursor positions can be synced.
	Module Settings List	Added	Settings of multiple modules can be displayed simultaneously, and setting conditions can now be saved as CSV data.
	Disable saving data to PC	Added	Added selection for enabling or disabling data recording on the PC and only to the main unit GL7000.
	Remote Lock On/Off Feature	Added	Setting operation is available on GL7000 under control of GL-Connection.

Real-Time Monitoring is now available through the GRM-ONE cloud service network.

- Remotely monitor your data from the GL7000 using the GRM-ONE cloud service. • Change your setup of the GL7000 remotely via the cloud.
- Email notification in case of abnormal conditions. • Real time signal data can be synced with the remote network camera to measure and monitor both signal data and video stream at the same time.



- Due to the possibility of equipment or PC failure, the data files on the instrument are not guaranteed to hold memory. Please make a backup of data whenever possible to avoid data loss.
- Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
- Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative.

⚠ For using equipment in correctly and safely

- Before using it, please read the user manual and then please use it properly in accordance with the description.
- To avoid an occurrence of malfunction or an electric shock by leakage, please ensure ground connection and use it in specified power source.

GRAPHTEC
Graphtec Corporation

503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan
Tel : +81-45-825-6250 Fax : +81-45-825-6396
Email : webinfo@graphtec.co.jp

Website <http://www.graphteccorp.com>



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