**General Purpose Data Acquisition System**

**Modular Data Acquisition PLATFORM**

**DATA PLATFORM GL7000**

**Multiple Amp Units**
- **Signals**
- **Number of Channels**
  - **2ch-112ch**

**1S/hr to 1MS/s**
- **Sampling Speed**
- **Recording**
  - **Transient & Long Term**

**8 Module Options Offering Various Inputs**

<table>
<thead>
<tr>
<th>Voltage Module GL7-V</th>
<th>Voltage/Temperature Module GL7-M</th>
<th>High Speed Voltage Module GL7-HSV</th>
<th>High Voltage Module GL7-HV</th>
<th>DC Strain Gauge Module GL7-DSB</th>
<th>Capacitive Module GL7-CAP</th>
<th>Logic/Pulse Module GL7-LIP</th>
<th>Voltage Output Module GL7-DDO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10ch (unit)</td>
<td>10ch (unit)</td>
<td>4ch (unit)</td>
<td>2ch (unit)</td>
<td>4ch (unit)</td>
<td>16ch (unit)</td>
<td>8ch (unit)</td>
<td>8ch (unit)</td>
</tr>
<tr>
<td>Max. 1ks/s (1M/s)</td>
<td>Max. 100ks/s (10M/s)</td>
<td>Max. 1MS/s (10ps)</td>
<td>Max. 100ks/s (1G/s)</td>
<td>Max. 100ks/s (1G/s)</td>
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<td>Max. 100ks/s (1G/s)</td>
</tr>
</tbody>
</table>

**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.

**Max 112 Channels per main GL7000 platform**
- Module selection can be multivariable. Mix and match to your needs.
- Maintains the maximum sampling speed even when the number of input/output modules are increased.

**Multiple recording modes covers both instantaneous measurement and long-term recording.**
- Built-in RAM capacity: 2 million samples/channel in each module
- 128GB SSD (optional)
- *Sampling speed depends on module count*
- Built-in 4GB flash memory
- *Max sampling speed at 1MS/s (10ps)*
- Compatible with 50 card (50WIC, Max.320GB)
- *Max sampling speed at 1MS/s (10ps)*

**Max 4GB Recording**
- Each file can now record up to 4GB of continuous data.
- **Recording time sample**
  - When recording data from GL7-HSV unit to the GL7-504 at 4GB file size:
    - Sampling Speed: 1MS/s (10ps)
    - Sampling Speed: 1ks/s (1ms)
    - Recording Time: 268 seconds
    - 84 hours

**Improved transfer speed to PC on large data files**
- GL-Connection software now transfers data at a much higher speed from the main unit GL7000 to the PC.
- **During real-time PC Data Acquisition using GL-Connection**
  - Temporary files saved on the GL7000 internal RAM and 1GB new transfers data at a much faster speed.
- **During standalone data acquisition**
  - Files saved permanently on the GL7-504 module transfers to PC via the GL-Connection at a much faster speed.

**Optional tools new line-ups**
- Carrying tool (B-585)
- Storage case (B-584)
- **Input connector, screw terminal (B-560)**

**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 can now upgrade to the latest firmware to carry the same feature as the new GL7000.
- However, the hardware changes (memory sizes) cannot 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**

**www.graphteccorp.com**
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: GL-745V
  Using 1 module / sampling speed: 50ks/s (20p)

Not using the relay mode
1st file: approx. 89 minutes (944GB)
2nd file: Data loss occurs in between start/stop trigger

Using the relay recording mode
1st file: approx. 89 minutes (944GB)
2nd file: No Data Loss!

NEW Added menu selection for microphones

- Added a menu for sound input by piezo-based microphones on the Charge/Acceleration Module (GL-7-CHA).
- Recorded data will be displayed after being transferred to the PC

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

SDK (Software Development Kit) is offered for free

- Software Development Kit (SDK) is available for real time data transfer and beyond for custom application development 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 simple integration with LabVIEW, (Connection, Waveform Display, Digital Indicator, CSV conversion, file acquisition)

NEW Data analysis with Oscpe/Oscope2 (ONN SDK)

In GL-7000 GUI data can be imported directly to Oscope.

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

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

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.

Remote Location

- 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.

![CE Certiﬁcation](http://www.graphteccorporation.com)

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

503-10 Shino-no-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.graphtec corporation.com](http://www.graphtec corporation.com)