A High Performance Instrument with Fast Acquisition, Fast Transfer, Fast Storage
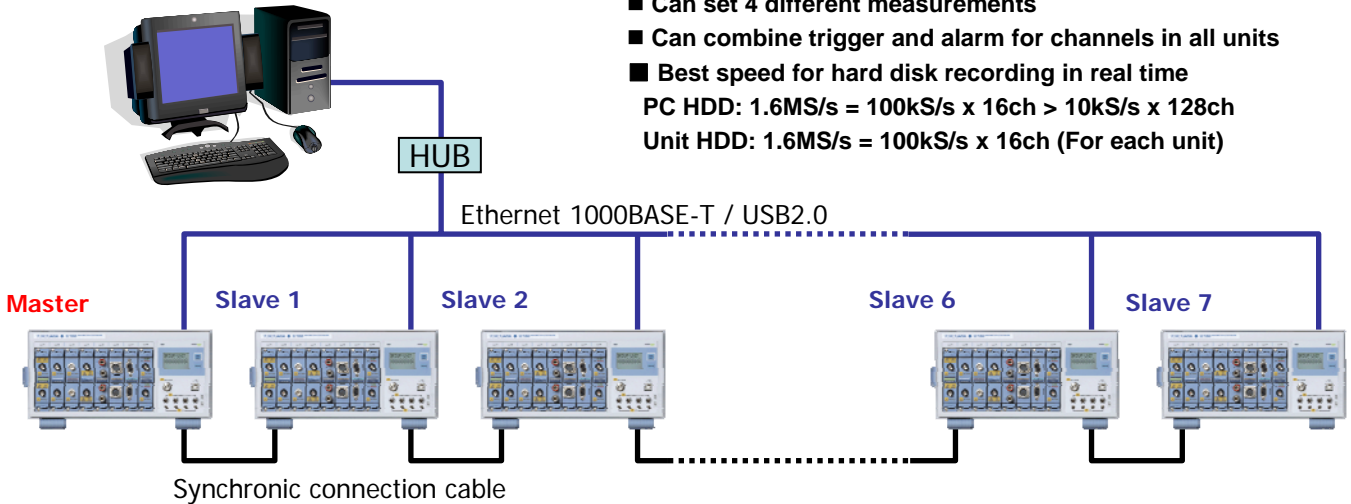
High Speed Data Acquisition Unit SL1000

New! With Maximum 128ch (16ch x 8 units) *Ver. 2*

Supports multichannel input!

- ■ Best sample rate 100MS/s (all simultaneous 128 ch)
- ■ Can set 4 different measurements
- ■ Can combine trigger and alarm for channels in all units
- ■ Best speed for hard disk recording in real time
  PC HDD: 1.6MS/s = 100kS/s x 16ch > 10kS/s x 128ch
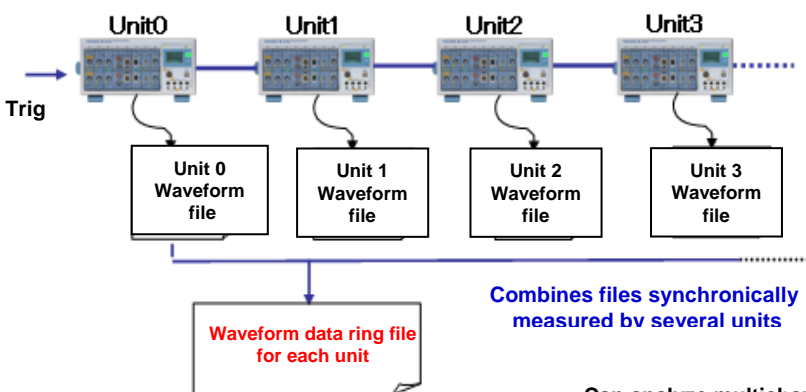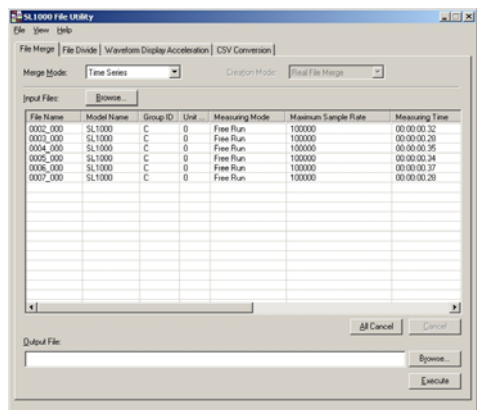 Unit HDD: 1.6MS/s = 100kS/s x 16ch (For each unit)

HUB

Ethernet 1000BASE-T / USB2.0

Master   **Slave 1**   **Slave 2**   **Slave 6**   **Slave 7**

Synchronic connection cable

NB) Cannot record into PC HDD and HDD embedded in SL1000 at the same time. The recording file is per unit basis.
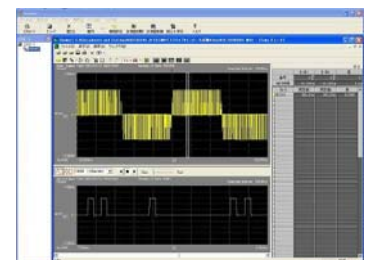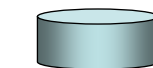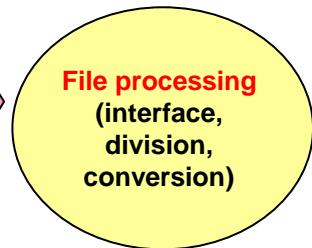(Utility software interface.)

SL1000 File Utility

File interface (time/channel), file division Can convert CSV files
Added fast data processing function of waveform display

File interface operation screen (example)

Unit0   Unit1   Unit2   Unit3

Trig

| Unit 0 Waveform file | Unit 1 Waveform file | Unit 2 Waveform file | Unit 3 Waveform file |

Combines files synchronically measured by several units

Waveform data ring file for each unit

Can analyze multichannels from several units at the same time

SL1000 Wdf file → **File processing (interface, division, conversion)** → Processed file

Xviewer

SL1000V2-PMK01E

A new expanded SL100 that is easy to use, without stress, and processes data quickly when collecting data *Ver. 2*

Waveform Display

Large icons

Shows measurement mode and sample rates

Channel setting information

Can set trigger level and pre trigger with mouse

Double click vertical axis

Right click on vertical axis

Vertical scale setting dialog

Shows remaining hard disk capacity

Indicator of buffer overrun
Can monitor data transfer during communication

Specifications

Synchronous Operation

Maximum connections	8 (Maximum sync cable length: 10 m or less total)
Sampling error between units	Max. ±20 ns or one sampling clock, whichever is longer
Synchronized items	Measurement and recording start and stop, internal sampling clock, external sampling clock, time, trigger, and alarm

File Utility Function

File merging	Merge waveform data files over time or over channels
File division	Divides waveform data files and extracts a portion of the data
Waveform display acceleration	Adds display data to the waveform data files. The display data is used to accelerate waveform displaying on Xviewer.
CSV file conversion	Converts waveform data files (.wdf extension) to CSV files

Built-in HDD file access function

Drag and drop

Can copy files to PC from SL1000 with acquisition software

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