

A High Performance Instrument with Fast Acquisition, Fast Transfer, Fast Storage

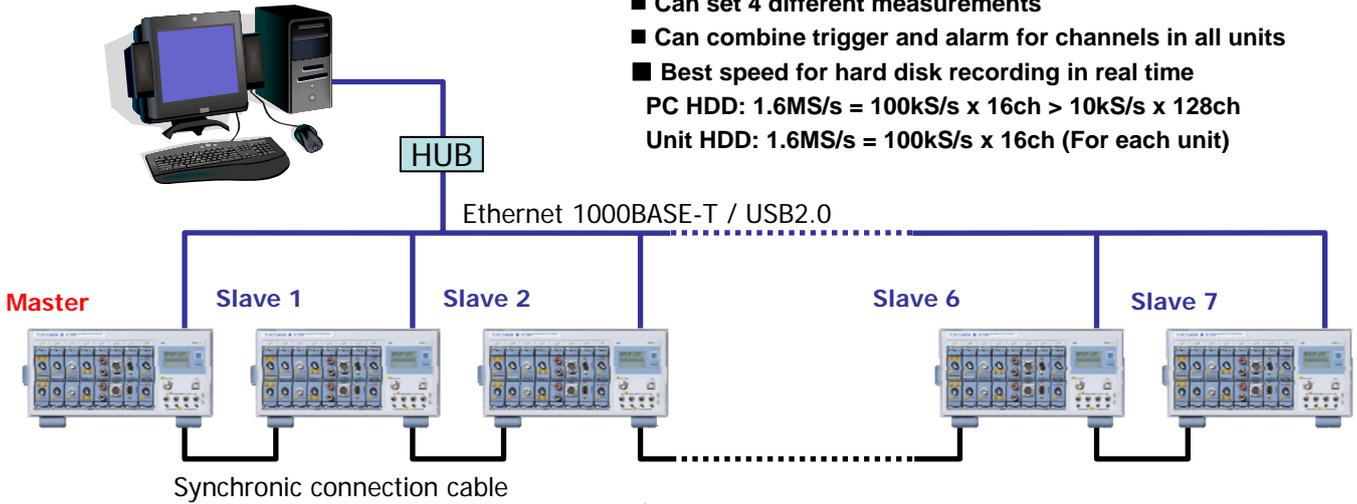


High Speed Data Acquisition Unit SL1000

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)

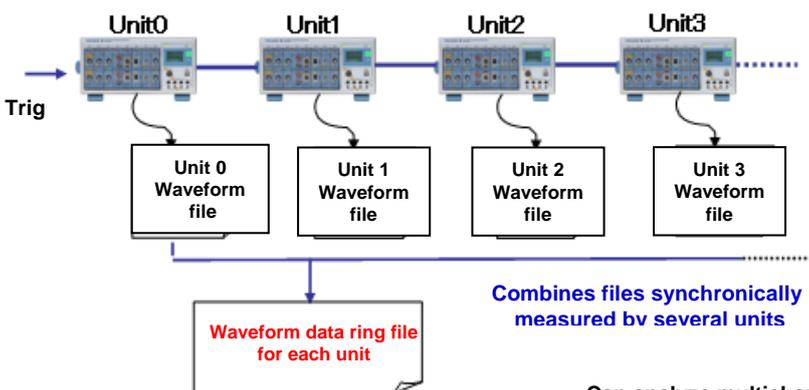
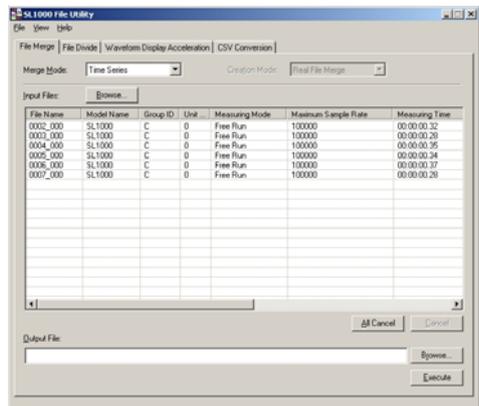


NB) Cannot record into PC HDD and HDD embedded in SL1000 at the same time. The recording file is per unit basis. (Utility software interface.)

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)

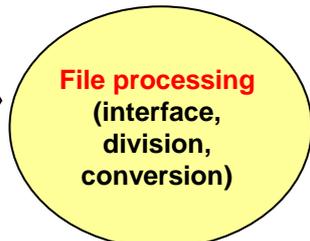


Combines files synchronously measured by several units

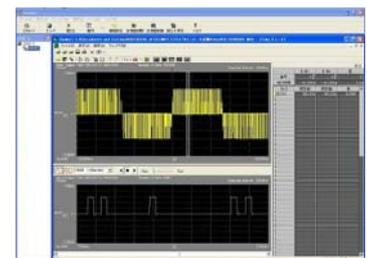
Can analyze multichannels from several units at the same time



SL1000 Wdf file



Processed file



Xviewer

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

The screenshot shows the SL1000 software interface. At the top, there's a menu bar (File, Acquisition, View, Window, Environment, Utility, Help) and a toolbar. The main display area shows a waveform plot with a vertical axis ranging from -10 to 10 and a horizontal axis for relative time. A 'Channel Info' window is open on the right, showing a table of channel settings:

Channel	Sample Rate	Coupling	Probe	Range
CH1	100kS/s	DC	1:1	10V
CH2	100kS/s	DC	1:1	10V
CH3	100kS/s	TC	***	Type-K
CH4	100kS/s	TC	***	Type-K
CH5	100kS/s	uSTR	***	20000uSTR
CH6	100kS/s	uSTR	***	10000uSTR
CH7	100kS/s	ACCL	***	x0.1
CH8	100kS/s	ACCL	***	x1
CH9	100kS/s	***	***	***
CH10	100kS/s	***	***	***

Below the waveform, there's a 'Record' section showing 'HDD' with a progress bar and 'Error Info' section. At the bottom, a table lists recorded files:

File Name	Save Time	Data Size	Info
C:\Program Files\Yokogawa\SL1000\Data\00160027718320_0000_02.WDF	2008/09/24 18:25:37.0		
C:\Program Files\Yokogawa\SL1000\Data\00160027718320_0000_0003.WDF	2008/09/24 18:25:37.0		
C:\Program Files\Yokogawa\SL1000\Data\00160027718320_0000_0004.WDF	2008/09/24 18:25:37.0		
C:\Program Files\Yokogawa\SL1000\Data\00160027718320_0000_0005.WDF	2008/09/24 18:25:37.0		

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

The screenshot shows a 'File Transfer' window with two panes. The top pane shows a list of files and folders from the SL1000, including folders like 'ATA_1,0' and '0000_000.WDF'. The bottom pane shows the local PC's file system. A large blue arrow points from the SL1000 files to the PC, with the text 'Drag and drop' next to it.

Can copy files to PC from SL1000 with acquisition software



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