

ScopeCorder Series



- GIGAZoom Engine
- Dual Capture
- USB Flash Memory
- DSP Real Time MATH Calculation



GIGAZoom Engine

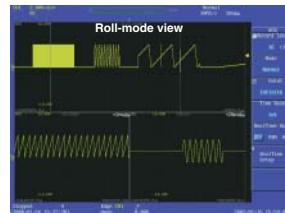
Instantaneous Full-Length Display of Large-Capacity Data

The ScopeCorder series can display 1GW(points)* of data in real-time with the large-scale, high-speed ASIC developed specifically for this series.

Two Zoom windows can display up to 500MW* of data. Zooming can also be done after the real time recording is completed.

The 1GW* memory has a full-length display and instantaneous zooming (to an user-specified size)

*1GW, 500MW data memory : DL750/DL750P



Maximum Recording Time				
Sample Rate	Seconds	Minutes	Hours	Days
10 MS/s	100 seconds	1.67	0.028	0.001
1 MS/s	600	10 minutes	0.167	0.007
100 kS/s	9000	150 minutes	2.5 hours	0.10
10 kS/s	72000	1200	20 hours	0.83 day
1 kS/s	864000	14400	240.0	10 days
200 S/s	2592000	43200	720.0	30 days

■ Amount of time data can be recorded with 1 GW* memory

USB Flash Memory Port

Store Data into External Memory Media

Long-term measurement data can easily be stored into your USB flash memory device to transfer the data to your PC. By using the Xviewer, optional software, you can replay and analyze the waveforms. The two USB ports can also be used for a keyboard or mouse device.

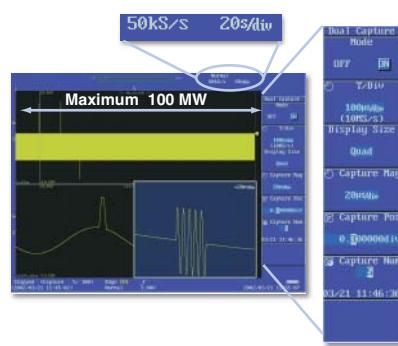


DualCapture Performance

A Powerful Tool for Durability Test Data Analysis (DL750/DL750P)

When testing durability, it is necessary to monitor the long-term trends of the data as well as capture high speed transients that might occur. This presents a challenge as the trend data is usually recorded at a slower sampling speed that might miss the transient phenomena. To meet this challenge, the DL750 and DL750P offer the Dual Capture Function.

- Integration of a High-Speed Sampling (Oscilloscope) and Low-Speed Sampling (Recorder) in a Single unit
- Separate Memory Management for Each Sampling rate.
- High-Speed Sampling Triggered Only by Abnormal Phenomena Occurring During Long-Term Observation (Low-Speed Sampling)



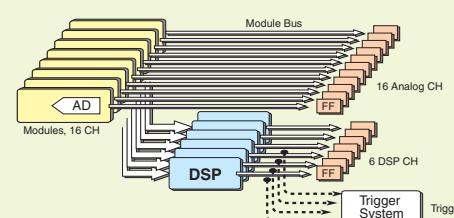
Individual DSP Channels

Real time MATH function (DL750/DL750P with /G3 option)

Six digital signal processing (DSP) channels have been added. The DSP channels enable you to perform MATH and digital filtering in real time while acquiring waveforms. Each DSP channel can perform up to 4 arithmetic operations and filtering at high speed, without slowing down waveform acquisitions.

- Triggers on calculated waveforms
- Calculated parameters such as cutoff of digital filtering and frequency can be changed in real-time
- Simultaneously display up to 22 channels (Analog 16CH + DSP 6CH)
- Arithmetic calculations between channels (addition, subtraction, multiplication division), digital filtering (LPF, BPF, HPF), differentiation, and integration are available.

Architecture of DSP-CH



DL750/DL750P Model Numbers and Suffix Codes

Model	Suffix Code	Description
701210		"DL750 main unit (16 isolated channels Slots + 16-bit logic)" 112 mm width A6 thermal printer built-in"
701230		"DL750P main unit (16 isolated channels Slots + 16-bit logic)" 210 mm width A4 thermal printer built-in"
Power cable	-D	UL/ CSA standard
	-F	VDE standard
	-R	AS standard
	-Q	BS standard
Internal media drive ²	-H	GB standard (Complied with CCC)
	-J1	Floppy drive
	-J2	Zip ³ drive (available for the DL750 only) ²
	-J3	PC card drive
Default Help language	-HE	English online help
	-HJ	Japanese online help
	-HC	Chinese online help
	-HG	German online help
	-HF	French online help
	-HL	Italian online help
	-HK	Korean online help
Memory expansion	/M1	Memory expansion to 10 MW/CH ⁴
	/M2	Memory expansion to 25 MW/CH ⁴
	/M3	Memory expansion to 50 MW/CH ⁴
Other specifications	/C8	Internal 40 GB hard drive (FAT32)
	/C10	Ethernet interface
	/G2	User-defined math function
	/G3	DSP channel function
	/P4	Probe power (4-output)
	/DC	DC12 V power (DC10-18 V) (DL750 only) ³

1. Plug-in modules are not included.

2. Choose only one.

3. Zip drive and DC12V power supply cannot be specified together with the DL750P.

4. Cannot be specified together.

SL1400 Model Numbers and Suffix Codes

Model	Suffix Code	Description
701240		SL1400 main unit (16 isolated Channel, 8 slots + 16-bit logic) ¹ 210 mm width A4 thermal printer built-in
Power cable ²	-D	UL/ CSA standard
	-F	VDE standard
	-R	AS standard
	-Q	BS standard
Internal media drive ²	-H	GB standard (Complied with CCC)
	-J0	non Drive
	-J3	PC card drive
	-HE	English, English Panel
Language ²	-HJ	Japanese, Japanese Panel
	-HC	Chinese, English Panel
	-HG	German, English Panel
	-HF	French, English Panel
	-HL	Italian, English Panel
	-HK	Korean, English Panel
	-HS	Spanish, English Panel
Other specifications	/C8	Internal 40 GB hard drive (FAT32)
	/C10	Ethernet interface
	/P4	Probe power (4-output)

1. Plug-in modules are not included.

2. Choose only one.

Standard Accessories

	Name	Order Qty.
Power cable		1
User's manuals (one set)		1
Transparent front panel cover		1
Printer roll paper	DL750 (A6, 10 m/roll)	3
	DL750P and SL1400 (A4, 20 m roll)	1
Cover panels (for empty module slots)		8
Rubber feet (four per set)		1
Soft case (for storing accessories)		1

Accessories

Product	Model No.	Description
Isolated probe	700929	1000 Vrms-CATII for 701250, -51, and -60 (10:1)
1:1 BNC safety adapter lead (in combination with the following)	701901	1000 Vrms-CATII for 701250, -51, and -60
Safety mini clip (hook type)	701959	1000 Vrms-CATII, 1 set each of red and black
Large Alligator clip (dolphin type)	701954	1000 Vrms-CATII, 1 set each of red and black
Alligator adapter (rated volt.: 1000 V)	758929	1000 Vrms-CATII, 1 set each of red and black
Alligator adapter (rated volt.: 300 V)	758922	300 Vrms-CATII, 1 set each of red and black
Fork terminal adapter	758921	1000 Vrms-CATII, 1 set each of red and black
Passive probe for DL750/DL750P/SL1400 ²	701940	Non-isolated 600 Vpk (701255) 42 V or less (other) (10:1)
1:1 BNC-alligator cable	366926	Non-isolated 42 V or less, for 701250, -51, -55, 1 m
1:1 Banana-alligator cable	366961	Non-isolated 42 V or less, for 701261, -62, -65, 1.2 m
Current probe ³	701933	30 Arms, DC to 50 MHz, supports probe power
Current probe ³	701930	150 Arms, DC to 10 MHz, supports probe power
Current probe ³	701931	500 Arms, DC to 2 MHz, supports probe power
Probe power ⁴	701934	Large current output, external probe power supply (4 outputs)
Shunt Resister	438920	250 Ω±0.1%, 4-20 mA Measurement
Shunt Resister	438921	100 Ω±0.1%, 4-20 mA Measurement
Shunt Resister	438922	10 Ω±0.1%, 4-20 mA Measurement
Differential probe	700924	1400 Vpk, 1000 Vrms-CAT II
Bridge head (NDIS, 120 Ω/350 Ω)	701955/56	With 5 m cable
Bridge head (DSUB, Shunt-cal 120 Ω/350 Ω)	701957/58	With 5 m cable
GO/NO-GO cable	366973	For GO/NO-GO I/O and start input
Safety BNC-banana adapter	758924	500 Vrms-CATII, for 701250, -51, -55, -60
Printer roll paper	701966	For DL750P, SL1400, A4 size (210 mm wide × 20 m), include 6 rolls
Logic Probe (1 m) ⁵	702911	8-bit, non-isolated, TTL level/Contact Input
Logic Probe (3 m) ⁵	702912	8-bit, non-isolated, TTL level/Contact Input
High-speed logic probe ⁵	700986	8-bit, non-isolated, response speed: 1 μs
Isolated logic probe ⁵	700987	8-bit, each channel isolated, response speed: 20 ms (for AC)
Isolated logic measurement leads	758917	Isolated logic measurement leads (2 per set) Alligator clip required separately.
CF Card Adapter	772090	Adapter for CF Card
CF Card	772091	128 MB
CF Card	772092	256 MB
Conversion adaptor	366928	BNC (jack)-RCA (plug) conversion
Safety BNC cable (1 meter)	701902	1000 Vrms-CATII (BNC-BNC)
Safety BNC cable (2 meters)	701903	1000 Vrms-CATII (BNC-BNC)
Soft carrying case	701963	For DL750, with 3 storage pockets
Soft carrying case	701967	For DL750P, SL1400, with 3 storage pockets

*1 Actual allowable voltage is the lower of the voltages specified for the main unit and cable.

*2 42 V is safe when using the 701940 with an isolated type BNC input.

*3 The number of current probes that can be powered from the main unit's probe power supply is limited. For details, please refer to <http://www.yokogawa.com/im/Bu/probe/>.

*4 Any number of externally powered probes can be used.

*5 Includes one each of the B9879PX and B9879KX connection leads.

*6 Additionally, 758917 and either the 758922 or 758929 are required for measurement.

Plug-in Module Model Numbers

Model	Description
701250	High-speed 10 MS/s 12-bit Isolation Module (2 CH)
701251	High-speed 1 MS/s 16-bit Isolation Module (2 CH)
701255	High-speed 10 MS/s 12-bit non-isolation Module (2 CH)
701260	High-voltage 100 kS/s 16-bit Isolation Module (2 CH, with RMS)
701261	Universal Module (2 CH)
701262	Universal Module (with Anti-Aliasing Filter, 2 CH)
701265	Temperature/high-precision voltage Module (2 CH)
701270	Strain Module (NDIS, 2 CH)
701271	Strain Module (DSUB, Shunt-CAL, 2 CH)
701275	Acceleration Module (with Anti-Aliasing Filter, 2 CH)
701280	Frequency Module (2 CH)

■ Probes not included with any modules.



Note



Before operating the product, read the user's manual thoroughly for proper and safe operation.

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