

DL750P

Scope & Chart Recorder Two-in-One

Sometimes an Oscilloscope, Sometimes a Chart Recorder!
The DL750P is equipped with a fully functional scope and chart recorder.



■ Chart Recorder Function

Access Settings Directly with the "RECORDER" Key

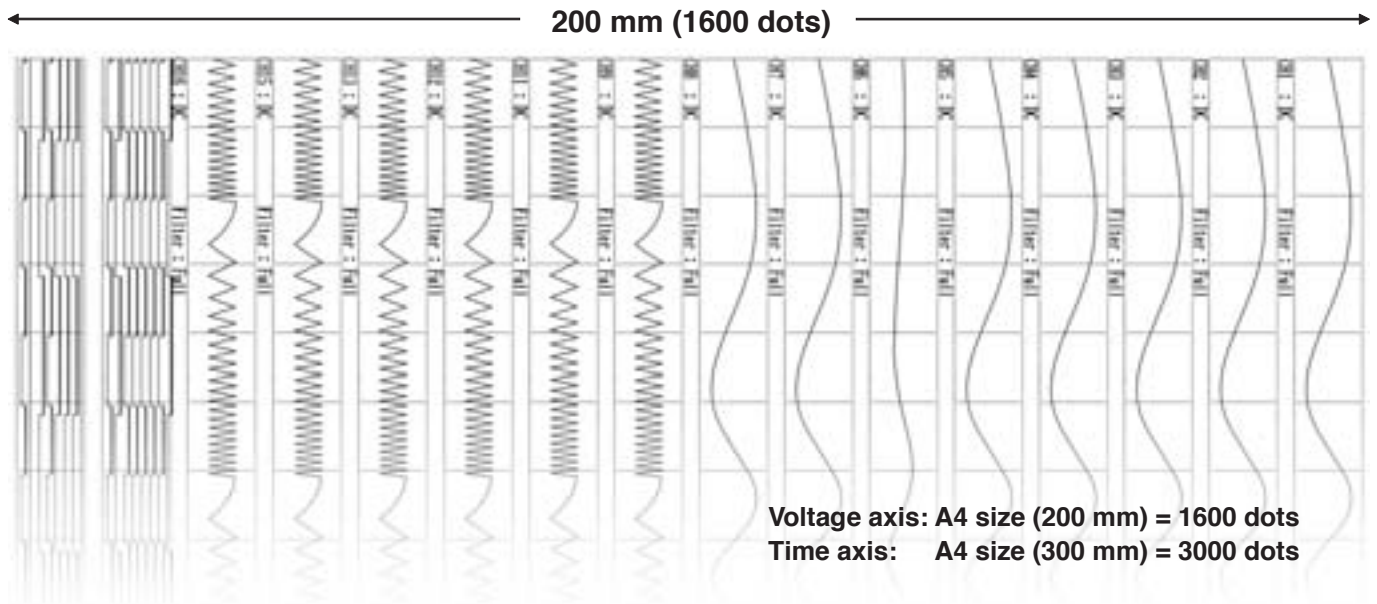
- **Set chart speed, chart length, and other settings in menu just like a chart recorder**
- **Automatic recording to memory**
 During real-time printing, the DL750P also automatically records the waveforms to memory in the background. Up to approximately 10 meters (1000 div) can be saved.
- **"Reprint" function**
 Once measurement completed, you can change the print format, length, or other parameters and print the data again. The Reprint function means never worrying about printer failure or running out of paper.



■ The DL750P enables you to...

- Check results immediately while on site**
 High speed printer outputs an A4 size sheet in approximately 15 seconds (20 mm/sec)
- View multi-channel data in high resolution**
 The A4 size printer records all channels together, with 1600-dot vertical resolution.
- Print only what you need**
 Using the DL750's GigaZoom function, you can instantly print out only the portions of waveforms that you need, thus saving paper.
- Record for long periods of time with high reliability**
 Waveforms can be printed out continuously in real time while the electronic data is also automatically saved (up to 1000 div or 10 meters).

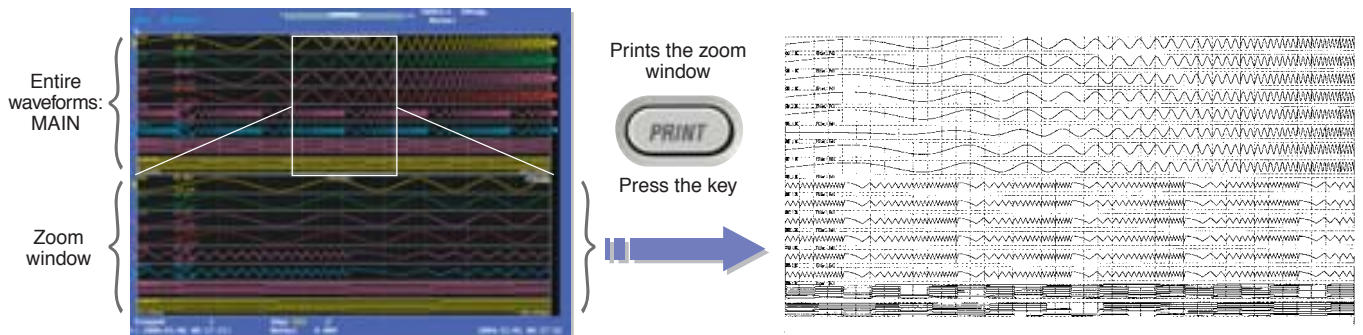
DL750P Printout Example (A4 Size, High Resolution)



GigaZoom function + A4 Printer

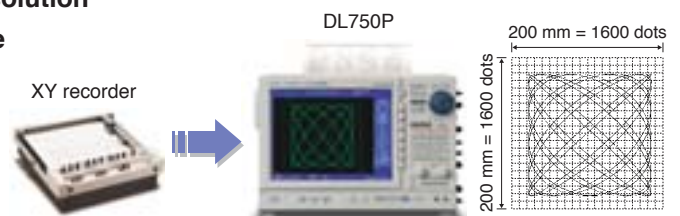
The GigaZoomEngine instantly displays up to 1 GW of data and zoom windows at the same time

Print any length of the zoomed waveforms in high resolution "Zoom Print" function



Prints XY Plots in High Resolution

- Includes dedicated mode for emulating an XY recorder (XY Recorder mode)
- Prints A4 size plots (200 mm x 200 mm) in high resolution
- Prints up to 4 pairs (of waveforms) at the same time
- Replaces XY recorders



Universal Modules (for Simultaneous Release with the DL750P*1)

- **Multiple inputs of general-use voltage (100 kS/s, 16-bit) and temperature (thermocouple)**
Two isolated inputs (voltage: 100 kS/s, 16-bit; temperature: 500 S/s)
Two types of modules available: with or without AAF (anti-aliasing filter)
- **Key Specifications**
Voltage range: 20 V/div-5 mV/div (for 10 div display, in steps of 1-2-5)
Temperature: Thermocouple
(K, E, J, T, L, U, N, R, S, B, W, iron-doped, gold/chromel)
Filters: AUTO (AAF), 4 kHz, 400 Hz, 40 Hz

*1. The DL750 will support these new modules via a firmware upgrade which will be made available by the 3rd quarter 2005.



DL750P Applications



- Maintenance (steel plants, power plants, cogeneration systems)
- On-board testing for railroads and other vehicles
- Heavy machinery development (industrial machinery, robotics, semiconductor manufacturing equipment)
- Multichannel on-site observations (automobiles, automobile parts)
- Replacement for Yokogawa's AR, OR, and LR instruments (former models)

Main Unit Specifications

Basic Specifications

Input	
Type	Plug-in module (each unit has a built-in A/D converter)
Number of Slots	8 (up to 16 channels)
Maximum sampling rate ¹	10 MS/s (701250/701255), 1MS/s (701251)
	100 kS/s (701260/61/62/70/71/75), 25 kS/s (701280), 500 S/s (701265)
Logic inputs	
Max. record length	2.5 MW/CH, 50 MW total
/M1	10 MW/CH, 250 MW total
/M2	25 MW/CH, 500 MW total
/M3	50 MW/CH, 1 GW total
Time axis accuracy²	
Time axis setting range	±0.005%
	500 ns-30 sec/div, 1 min-30 min/div, 1 h-12 h/div, 1 day-3 days/div (up to 30 days)
Acquisition modes	
	Normal, Envelope, Averaging, Box average

Triggers

Modes	
Simple trigger source	AUTO, AUTO LEVEL, NORMAL, SINGLE, SINGLE (n)
Enhanced trigger source	CH1 to CH16, DSP1 to DSP6, LINE, EXT, LOGIC, A, LOGIC, B, Time A-B(n), A delay B, B > Time, B < Time, B Time Out, Period, Window, Wave Window

Display

Display³	
Display modes	10.4-inch color TFT liquid crystal display (SVGA 800 × 600 dots)
Split	Single, Dual, Triad, Quad, Octal, Hexadecimal (DL750P)
Zoom	Main, Main&Z1, Main&Z1&Z2, Main&Z2, Z1 ONLY, Z2 ONLY, Z1&Z2
XY	Single Mode (X is fixed, Y is set by user), Quad Mode (XY1, XY2, XY3, XY4)
Accumulation	PERSIST Overlays in one color

Printer (DL750P)

Built-in printer	
Printing method	Thermal line-dot printing
Paper	A4 size roll (210 mm (W) × 20 meters)
Effective print width	200 mm (1600 dots)
Functions	Real-time printing, XY printing, Screen printing
High resolution printing of specified range	Zoom print, Fine print (print specified range in high resolution)
Maximum printing speed	20 mm/sec (500 ms/div)
Real-time printing (chart recorder mode)	
Functions	Print (record) waveforms in real time, and save automatically to memory (up to 1000 div) in background
Resolution	8 dots/mm A4 size (200 mm)=1600 dots
Waveform printing	10 dots/mm A4 size (300 mm)=3000 dots
Speeds	20 mm/s (500 ms/div), 10 mm/s, 5 mm/s, 2 mm/s, 1 mm/s
	100 mm/min, 50 mm/min, 25 mm/min, 20 mm/min, 10 mm/min, 5 mm/min, 2 mm/min, 1 mm/min
	100 mm/h, 50 mm/h, 25 mm/h, 20 mm/h, 10 mm/h
	Continuous, 20 cm, 50 cm, 1 m, 2 m
Numerical printing	
Print length (shot length)	2.5 M/CH fixed, max. 1000 div (depends on chart speed)
Memory length	Intervals: 1 s, 2 s, 5 s, 10 s, 15 s, 20 s, 30 s, 1 min, 2 min, 5 min, 10 min, 15 min, 20 min, 30 min, 60 min
Digital values	Print directions: Standard or rotated 180 degrees
Print format	Select from 1, 2, 3, 4, 8, or 16
	Flexible zone function available when 1 division selected
	Select 1 div=10 div printed or 1div=10 mm printed
	Gauge display, upper/lower limits, channel markers, time
	CH information, messages, CH data
Reprint function	Reprints after STOP (enables resetting of format and range specification)
Print start/stop	PDF file output function
	Specified length printed upon trigger (Single mode, Repeat(Normal) mode)
XY recorder mode	
Ext. terminal	GO/NO-GO terminal can be used for start/stop input (L=start, H=stop)
Functions	
Resolution	Prints XY plots in high resolution; emulates an XY plotter.
	8 dots/mm × 200 mm=1600 dots
	8 dots/mm × 200 mm=1600 dots
Max. no. of recordable waveforms	Any group of 4
Sampling rate	5 kS/s max.
Memory length	1 MW/CH
Record format	XY single (fixed, T-Y not available)
Zoom Print/Fine print function	
Functions	Waveforms can be printed in high resolution, also when not in real-time mode
	Quickly prints the portion zoomed with the GigaZoomEngine in high resolution
	Prints the cursor-specified range in high resolution
Print format	Same format as in real-time mode
	Print length can be specified

Screen Data Output (Image Saving)

Output formats	PNG, JPEG, BMP, PostScript
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Analysis Functions

Ch-to-ch calculation function	
Calculable record length	Definable math waveforms: 8
Standard:	Up to 800 kW (MATH1 only), up to 100 KW (MATH 1-8)
Operators	Addition, subtraction, multiplication, division, binary conversion, phase shifting, FFT
FFT types	PS (1000, 2000, 5000, 10000, 20000, 50000, or 100000 points)
FFT window	Rectangular, Hanning, Flattop, Exponential

User-defined math function (with /G2 option)

Operators	ABS, SQRT, LOG, EXP, NEG, SIN, COS, TAN, ATAN, PH, DIF, DDIF, INTG, BIN
	P2, P3, F1, F2, FV, PWHH, PWHL, PWLL, PWXX
	FILT1, FILT2, HLBT, MEAN,
	MAG, LOGMAG, PHASE, REAL, IMAG
FFT types	LS, PS, PSD, CS, TF, CH
Number of FFT points	1000, 2000, 5000, 10000, 20000, 50000, 100000
FFT window	Rectangular, Hanning, Flattop, Exponential

Waveform Measurement Functions

Numerical monitoring function	
	Numerically displays the waveform level (instantaneous) for approximately 1 sec interval.
Cursors	
Horizontal, Vertical, Marker, Degree, H&V	
No. of auto-measured waveform parameters	
24	
Operations	
P-P, Max, Min, High, Low, Avg, Rms, Amp, StdDiv, +Oshot, -Oshot,	
Rise, Fall, Freq, Period, +Duty, -Width, -Width, Pulse, Burst1, Burst2, Avg, Freq, Avg, Period	
Rdelay, Fdelay, Int1TY, Int2TY, Int1XY, Int2XY	
Max. no. of cycles: 48,000 (max. no. of parameters: 48,000)	
Cycle/history statistical processing	
Zone, Parameter	
GO/NO-GO	
Judgement (16), Zone (4)	
Actions	
Print, Save (Binary/ASCII), Beep, Mail	

External I/O

LOGIC input specifications	
Maximum sampling rate	8 bits × 2 (26 pin connector × 2)
Compatible probes	10 MS/s
	8-bit non-isolated (700986), 8-bit isolated (700987)
EXT TRIG IN/EXT TRIG OUT	
Compatible probes	
RCA pin jack (TTL (0 to 5 V) input)	
EXT Clock IN	
RCA pin jack (TTL (0 to 5 V) input)	
USB peripheral terminal	
USB mouse, USB keyboard, USB printer	
DL750P only (USB memory, USB storage)	
USB to PC	
For control from PC via USB	
Ethernet (with /C10 option)	
Complies with 100BASE-TX, 10BASE-T	
Other communication interfaces	
GP-IB, SERIAL (RS232), SCSI	
GO/NO-GO I/O	
Module jack (RJ11), TTL (0-5 V input)	
Probe power terminal (with /P4 option)	
Max. no. of probes powered	
Compatible probes	
Current probes: 701933 (30 A), 701930 (150 A), 701931 (500 A), others	
Max. no. of current probes allowed	
See: http://www.yokogawa.com/tm/probe/	

Media Drives

Internal media drives	FDD/PC card	Selectable form floppy drive or PC card (Zip not available with the DL750P)
	HDD	30 GB hard drive (with /C8 option)

DSP Channel Function (with the /G3 Option)

DSP channels	6
Maximum sampling rate	100 kS/s (when exceeding 100 kS/s, the data is resampled at 100 kS/s)
Operators	<ul style="list-style-type: none"> ■ Calculation of 2 items between channels (addition, subtraction, multiplication, division) ■ Differentiation (w/ LPF) ■ Integration ■ Digital filtering (LPF, HPF, BPF, FIR type, IIR type, variable cutoff frequency) ■ Knocking filter function (filter calculations and bulb noise rejection function)

Real-Time Hard Disk Recording (with /C8 Option)

Max usable space per single save	1 GW
Maximum sampling rate	100 kS/s (1 CH)

Dual Capture Function

This function captures the same waveform data at two different sampling rates.	
Main (low-speed)	Max. sampling rate: 100 kS/s, max. memory length: 100 MW
Sub (high-speed)	Max. sampling rate: 10 MS/s, max. memory length: 10 KW (fixed)
Sub maximum no. of captured screens	500 (/M3, /M2), 250 (/M1), 100 (with standard memory)

Voice Memo Function

Voice memo	Stores voice data during roll mode, plays back from microphone terminal and speaker output terminal.
Voice comment	Stores voiced comments when saving images.

Acquisition Memory Backup

Functions	
Backs up acquisition memory and voice data, maintained by four AA alkaline batteries	
Backup duration (reference value) ²	Approximately 10 hours (with /M3 option)

General Specifications

Rated supply voltage	100 to 120 VAC/200 to 240 VAC (automatically switched)
Rated supply frequency	50/60 Hz
Power consumption	Approximately 200 VA-MAX
Withstand voltage	1500 VAC for one minute across power supply and ground
Insulating resistance	10 MΩ or greater at 500 VDC across power supply and ground
Exterior dimensions	DL750P
	355 mm (W) × 250 mm (H) × 225 mm (D) excluding handle and protrusions
Weight	DL750P
	Modules
Operating temperature range	Approx 7.9 kg (main unit only), approx 10.3 kg (main unit + 701250 × 8)
	Approximately 300 g per module (average)
	5 to 40°C

1. Maximum sampling rate depends on the type of modules used.
 If the sampling frequency exceeds the max. sampling rate of the module, the same data is inserted.
 2. Standard operating conditions: ambient temp. 25°C ±5°C, ambient humidity 55 ±10%RH
 3. Some pixels of the LCD display may be permanently illuminated or non-illuminated. Also, due to the characteristics of LCDs there may be gradients in brightness. Please understand that these phenomena do not indicate a defective display.

Universal (Voltage/Temperature) Modules (701261/701262)

Input channels	2																																				
Input signals	Voltage or temperature (thermocouple)																																				
AAF (anti-aliasing filter)	701261: none, 701262: included																																				
Input couplings	TC (thermocouple), DC, AC, GND																																				
Input types ¹	Isolated unbalanced																																				
Maximum sampling rate	Voltage 100 kS/s																																				
Data updating rate	Temperature 500 Hz																																				
A/D conversion resolution	Voltage: 16 bits (2400 LSB/div); temperature: 0.1°C																																				
Frequency range (-3 dB) ¹	Voltage DC to 40 kHz Temperature DC to 100 Hz																																				
Input range	Voltage (1:1) 5 mV/div to 20 V/div (10 div display, in steps of 1-2.5) Temperature K, E, J, T, L, U, N, R, S, B, W, iron-doped gold/chromel																																				
Effective measurement range (voltage)	20 div (display range 10 div)																																				
DC offset (voltage)	±5 div																																				
DC accuracy ¹ (voltage)	±(0.25% of 10 div)																																				
Temp. measured range/accuracy ^{1, 2}	<table border="1"> <thead> <tr> <th>Type</th> <th>Measured Range</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>-200°C to 1300°C</td> <td>±(0.1% of reading + 1.5°C)</td> </tr> <tr> <td>E</td> <td>-200°C to 800°C</td> <td>However, for -200°C to 0°C, 200°C for 800°C; ±5°C</td> </tr> <tr> <td>J</td> <td>-200°C to 1100°C</td> <td>±0.2% of reading + 1.5°C)</td> </tr> <tr> <td>T</td> <td>-200°C to 400°C</td> <td></td> </tr> <tr> <td>L</td> <td>-200°C to 900°C</td> <td></td> </tr> <tr> <td>U</td> <td>-200°C to 400°C</td> <td></td> </tr> <tr> <td>N</td> <td>0°C to 1300°C</td> <td></td> </tr> <tr> <td>R, S</td> <td>0°C to 1700°C</td> <td>±(0.1% of reading + 3°C) However, 0°C for 200°C: ±8°C 200°C for 800°C; ±5°C</td> </tr> <tr> <td>B</td> <td>0°C to 1800°C</td> <td>±(0.1% of reading + 2°C) However, 400°C to 700°C: ±8°C Effective range: 400°C to 1800°C</td> </tr> <tr> <td>W</td> <td>0°C to 2300°C</td> <td>±(0.1% of reading + 3°C)</td> </tr> <tr> <td>Gold/chromel</td> <td>0 K to 300 K 0 to 50 K: ±4 K 50 to 300 K: ±2.5 K</td> <td></td> </tr> </tbody> </table>	Type	Measured Range	Accuracy	K	-200°C to 1300°C	±(0.1% of reading + 1.5°C)	E	-200°C to 800°C	However, for -200°C to 0°C, 200°C for 800°C; ±5°C	J	-200°C to 1100°C	±0.2% of reading + 1.5°C)	T	-200°C to 400°C		L	-200°C to 900°C		U	-200°C to 400°C		N	0°C to 1300°C		R, S	0°C to 1700°C	±(0.1% of reading + 3°C) However, 0°C for 200°C: ±8°C 200°C for 800°C; ±5°C	B	0°C to 1800°C	±(0.1% of reading + 2°C) However, 400°C to 700°C: ±8°C Effective range: 400°C to 1800°C	W	0°C to 2300°C	±(0.1% of reading + 3°C)	Gold/chromel	0 K to 300 K 0 to 50 K: ±4 K 50 to 300 K: ±2.5 K	
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Max. input voltage (1 kHz or less)	42 V (DC+ACpeak): for satisfying safety standards ⁴ 150 V (DC+ACpeak): allowable maximum ⁴																																				
Max. allowable common mode volt. (1 kHz or less)	42 V (DC+ACpeak) (CAT I & CAT II, 30 Vrms)																																				
Input connector	Binding post																																				
Input impedance	Approximately 1 MΩ																																				
Input filters	Voltage OFF, AUTO (AAF), 4 kHz, 400 Hz, 40 Hz (-12 dB/oct except AUTO) Temperature OFF, 30 Hz, 8 Hz, 2 Hz																																				
AAF (anti-aliasing filter) ⁵	701262 only Cutoff frequency $f_c = f_s$ (sampling frequency) × 40% f_c automatically linked with the sampling frequency. Cutoff characteristics: -65 dB at 2 X f_c (typical value)																																				
Temp. coefficient (for voltage) ⁶	Zeropoint Gain ±(0.01% of 10 div)/°C (typical value) ±(0.02% of 10 div)/°C (typical value)																																				
Compatible cable	366961 (banana-to-alligator 1:1)																																				

- Under reference operating conditions (ambient temp. of 23°C ±5°C, ambient humidity of 55% ±10%RH, after 30-minute warmup period and calibration).
- Does not include reference junction/temperature compensation accuracy.
- Since the input connector is of a binding post type, it is possible to touch the metal part of the connector.
- Therefore, for safety reasons, the maximum value is 42 V (DC+ACpeak).
- Maximum value at which the input circuit will not be damaged.
- When $f_s = 50$ Hz to 100 kHz. When $f_s = 50$ Hz, $f_c = 20$ Hz (fixed).
- Except when filters set to AUTO.

DL750/DL750P Model Numbers and Suffix Codes

Model	Suffix Code	Description
701210		"DL750 main unit (16 isolated channels + 16-bit logic) 112 mm width A6 thermal printer built-in"
701230		"DL750P main unit (16 isolated channels + 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
	-H	GB standard(Complied with CCC)
Internal media drive ²	-J1	Floppy drive
	-J2	Zip [®] drive (available for the DL750 only) ³
	-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
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
		Memory expansion to 100 MW/CH ⁴
Other specifications	/C8	Internal 30 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

- Plug-in modules are not included.
- Choose only one.
- Zip drive and DC12V power supply cannot be specified together with the DL750P.
- Cannot be specified together.

Standard Accessories

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

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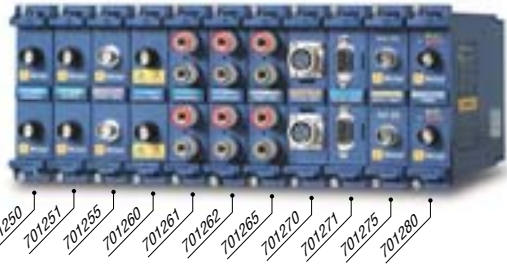
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Plug-in Module Model Numbers⁵

Model No.	Description	Firmware
701250	High-speed 10 MS/s 12-bit isolation module (2 CH)	1.07 or later
701251	High-speed 1 MS/s 16-bit isolation module (2 CH)	1.07 or later
701255	High-speed 10 MS/s 12-bit non-isolation module (2 CH)	2.02 or later
701260	High-voltage 100 kS/s 16-bit isolation module (2 CH, with RMS)	2.02 or later
701261	Universal Module (2 CH)	5.01 or later ⁷
701262	Universal Module (with AAF 2 CH)	5.01 or later ⁷
701265	Temperature/high-precision voltage module (2 CH)	1.07 or later
701270	Strain module (NDIS, 2 CH)	2.02 or later
701271	Strain module (DSUB, Shunt-CAL, 2 CH)	2.02 or later
701275	Acceleration/voltage module (with AAF, 2 CH)	3.01 or later
701280	Frequency module (2 CH)	3.01 or later

- Probes are not included with any modules.
- The latest firmware for the DL750 series is available on our Web site.
<http://www.yokogawa.com/tm/dl750/>
- Only supported by the initially-released DL750P (ver. 5.01 or later).
- DL750 support to be offered by 3rd quarter 2005 (ver. 6.01 or later)

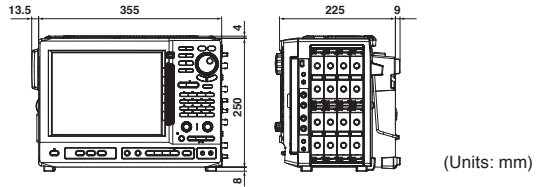


DL750/DL750P Accessories

Product	Model No.	Description ¹
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 DL750/750P 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)
Differential probe	700924	1400V pk, 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	B988AE	DL750, A6 size (120 mm wide × 10m), include 10 rolls
Printer roll paper	701966	DL750P, A4 size (210 mm wide × 20m), include 6 rolls
High-speed logic probe ⁵	700986	8-bit, non-isolated, response speed: 1 μs
Isolated logic probe ⁶	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."
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, with 3 storage pockets

- Actual allowable voltage is the lower of the voltages specified for the main unit and the cable
- 42 V is safe when using the 701940 with a Non isolated type BNC input.
3. The number of current probes that can be powered from the main unit probe power is limited. See the following for details. <http://www.yokogawa.com/tm/probe/>
- There is no limit to the number of externally powered probes that can be used.
- One of each connection lead (B9879PK and B9879KX) is included.
- 758917, and either 758922 or 758929 is required for measurement.

External Dimensions



Note



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

Subject to change without notice.

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