# Digital Oscilloscopes and ScopeCorders

signal plorer StgnatExplorer Yokogawa's DL series of instruments consists of digital oscilloscopes and hybrid ScopeCorders.

The DL9000 series digital oscilloscopes have high-speed sampling and a wide range of bandwidths that can be utilized for design and development of electronic devices and embedded systems. The DL9700/9500 series Mixed Signal Oscilloscopes have 4 Analog channels and up to 32 logic channels. The DL1600 series oscilloscopes support 3-mode power supplies, and the weight is just 3.9kg. The ScopeCorders have the capablities of both a powerful digital sampling oscillscope and a multi-channel data recorder, and are a perfect fit for industrial, manufacturing, and maintenance environmnents. The DL series offers a wide range of capabilities designed to meet your current and future needs.

# **DL/SL Series Lineup**



Scope**Corder** 

Bulletin 7001-60E

YOKOGAWA

## Select the "perfect" DL for your application



\*DL1640+Battery Box

:CAN physical layer analysis for in-vehicle testing

#### Up to 10 MS/s sampling rate, max 16 CH inputs for various kinds of signals such as voltage, temperature, strain, frequency, etc.

#### ▼ 11 different plug-in modules can be combined to meet a variety of measurements needs.

	DL750/DL750P			
	<ul> <li>Max. 10 MS/s (using 701250 module)</li> </ul>		DL750/DL750P Plug-In Modules	
	<ul> <li>Max. 16-bit A/D resolution (using 701251, 701260 module)</li> </ul>	Model No.	Description	
	Max. analog 16-ch + logic 16-bit inputs	701250	High-speed 10 MS/s 12-bit isolation module (2 CH)	
	Max. 1 GW memory	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	
to any army little	<ul> <li>10.4-inch color TFT LCD (SVGA)</li> </ul>	701260	High-voltage 100 kS/s 16-bit isolation module (2 CH, w	
120 33 - H D ++	<ul> <li>40 GB internal HDD (optional)</li> </ul>	701261	Universal Module (2 CH)	
*DL750P	Dual capture function	701262	Universal Module (with AAF, 2 CH)	
52,001		701265	Temperature/high-Precision voltage module (2 CH)	
the state want to be a state of the state of	<ul> <li>200 mm printing width high resolution A4 thermal printer</li> </ul>	701270	Strain module (NDIS, 2 CH)	
00000000000000	(DL750P)	701271	Strain module(DSUB, Shunt-CAL, 2 CH)	
	DC12 V Power supplies available (DL750)	701275	Acceleration/Voltage module (with AAF, 2 CH)	
0000 0000000000000000000000000000000000		701280	Frequency module (2 CH)	
INNNNNNNNNN	Application Examples :Automobiles (engine combusic :Motors, Inverters, Press mach		re, brakes, transmission control sign fraulic equipment, Printer)	

#### Easy operation and a perfect fit for manufacturing and maintenance departments



## **SL1400**

- Max. 10 MS/s (using 701250 module) • Max. 16-bit A/D resolution (using 701251, 701260
- module)
- Max. analog 16-ch + logic 16-bit inputs • Max. 50 MW memory
- Max. 16 Analog channels + 16 Logic input
   10.4-inch color TFT LCD (SVGA)
- 40 GB internal HDD (optional)
- Dual capture function
- High resolution A4 thermal printer
- Application Examples :Power supply quality measurement
  - :Steel plant maintenance, Power plant maintenance

## Accessories

#### Xviewer (701992)



Xviewer is a PC software application designed to work with the DL series digital oscilloscopes and the DL750 series ScopeCorders. Xviewer allows you to display DL-acquired waveform data (using the "Viewer" function), perform file transfers, and control DL series instruments remotely.

You can download a trial version of Xviewer from YOKOGAWA's web site at: http://www.yokogawa.co.jp/tm/Bu/701992/



#### **USB Compliance Test Solution**

A DL9240 or DL9240L together with the USB test fixture, test software and probes, allow you to test a USB device, host or hub for compliance to USB-IF specifications. The test software shows connection methods and test procedures in a wizard form for each tests item. It shows connections, settings and operations necessary for carrying out each test enabling even first-time users to perform test easily. You can output waveform data from a test result window to analyze failed signals using the Xviewer waveform analysis software.

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nals)

## **DL** series • Selection Guide<sup>\*1</sup>

Item	Model	DL9700L/DL9500L	DL9040/9140/9240	DL7400 series	DL1700E series	DL1600 series	DL750/DL750P	SL1400
Features		Analog 4 ch+Logic 32/ 16 bits input Max. 5 GS/s Serial bus analysis functions Power supply analysis functions "Virtual DA" functions Probe power connectors Supports USB storage USB mouse/keyboard	Fast screen update & all points display Compact & lightweight, 4 ch Max. 10 GS/s PC, SPI, CAN and LIN bus analysis functions Probe power connectors Supports USB storage USB mouse/keyboard Power supply analysis functions	Fast screen update & all points display High speed 8 ch + 16 bits logic input Max. 2 GS/s Web server function Serial bus analysis functions Dower analysis functions USB mouse/keyboard Probe power connectors Supports USB storage FlexRay signal analyzer	Fast screen update & all points display Compact & lightweight, 4 ch Max, 1 GS/s IPC, SPI bus analysis functions Probe power connectors Supports USB storage Web server functions USB mouse/keyboard	Fast screen update & all points display Compact 4 ch, 200 MS/s Max, 32 MW memory (4 ch) Web server functions CAN, FC and SPI bus analysis functions USB mouse/keyboard Probe power connectors Supports USB storage	Compact, 16CH isolated inputs GigaZoomEngine /JualCapture Eleven different plug-in input modules Max. 1GW memory 200mm printing width high resolution A4 thermal printer (DL750P) Web server functions USB mous/keyboard Probe power connectors	Compact, 16 ch isolated inputs (8 module slots) Eleven kinds of plug-in input modules Web server functions A4 (210 mm) big printer Probe power connectors
Max. Sampling	Rate	5 GS/s	10 GS/s (*2)	2 GS/s	1 GS/s	200 MS/s	10 MS/s (*4)	10 MS/s (*4)
Bandwidth		1.0 GHz (*2)	1.5 GHz (*2)	500 MHz	500 MHz (*2)	200 MHz	3 MHz (*4)	3 MHz (*4)
Number of analog i	input channels	4	4	DL7440/7480: 4 ch / 8 ch	DL1720E/1735E, 40E, 40EL: 2 ch/4 ch	DL1620/1640/1640L: 2 ch/4 ch/4 ch	Plug-in module: 16 ch (isolated)	Plug-in module: 16 ch (isolation)
Logic Input		DL9705L, DL9710L: St'd:32 (8 bits × 4) DL9505L, DL9510L: St'd:16 (8 bits × 2)	-	St'd: 16-bit (8 bits $ imes$ 2)	-	-	St'd: 16 (8 bits × 2)	St'd: 16 (8 bits × 2)
Max. vertical ser		2 mV/div	2 mV/div	2 mV/div	2 mV/div	2 mV/div	100 µV/div (*4)	1 mV range
Vertial axis res		8 bit	8 bit	8 bit	8 bit	8 bit	Max. 16 bits (*4)	Max. 16 bits (*4)
Max. sweep se		500 ps/div	500 ps/div	1 ns/div	1 ns/div	2 ns/div	500 ns/div (*4)	100 µs Setting
Max. record length	St'd	6.25 MW	DL9040, DL9140, DL9240: 2.5 MW DL9040L, DL9140L, DL9240L: 6.25 MW	701450/70: 4 MW 701460/80: 16 MW	DL1740EL: 8 MW DL1740E: 2 MW DL1735E: 2 MW DL1735E: 1 MW	DL1620/DL1640: 8 MW DL1640L: 32 MW	50 MW max/ 2.5 MW (16 ch)	50 MW max/ 2.5 MW (16 ch)
	Option	-	-	-	-	-	1 GW max/50 MW (16 ch)	-
Internal Media drive	St'd	PC card (2)	PC card	PC card	-	-		-
	selectable	-	-	FDD, Zip <sup>®</sup>	FDD, PC card	PC card, FDD, Zip®	PC card, FDD, Zip <sup>™</sup> (DL750 only)	PC card
	Optional	40 GB (FAT32)	40 GB (FAT32)	-	-	-	40 GB (FAT32)	40 GB (FAT32)
	St'd	USB	USB	USB/GP-IB	USB/GP-IB	RS232	USB/GP-IB/RS232/SCSI	USB/GP-IB/RS232/SCSI
	Optional	Ethernet	Ethernet	Ethernet/SCSI	Ethernet	USB/Ethernet/GP-IB	Ethernet	Ethernet
	Optional	Optional: 112 mm width	Optional: 112 mm width	Optional: 112 mm width	Optional: 112 mm width	Optional: 112 mm width	St'd 112mm width (DL750) St'd 210mm width (DL750P)	St'd 210 mm width
	Optional	IPC bus analysis SPI bus analysis CAN & LIN bus analysis Probe power connectors Power supply analysis functions User define math functions	IPC bus analysis SPI bus analysis CAN & LIN bus analysis Probe power connectors	IPC bus analysis CAN bus analysis SPI bus analysis User-defined math functions Power analysis Four additional probe power (total: 8, DL7480 only) (13) FlexRay bus analysis	I <sup>+C</sup> bus analysis SPI bus analysis 2/4 output probe power connectors	PC bus analysis CAN bus analysis SPI bus analysis 2/4 Output probe power connecors DC/Battery powered model (DC 12 V + Battery)	Eleven kinds of plug-in modules 6 DSP channel User-defined math functions 4 Probe power connectors DC12V drive model available (DL750)	Eleven kinds of plug-in modules 4 Probe power connectors
Display (TFT L		8.4-inch color, XGA	8.4-inch color, XGA	8.4-inch color, VGA	6.4-inch color, VGA	6.4-inch color, VGA	10.4-inch color, SVGA	10.4-inch color, SVGA
External Dimer $W \times H \times D$ (mm)		$350\times 200\times 285$	$350\times 200\times 178$	$373\times210.5\times355.3$	$220\times 266\times 264$	$220\times 266\times 224$	355 × 250 × 180 (DL750) 355 × 250 × 225 (DL750P)	$355\times250\times225$
Approx. Weigh	it (kg)	Approx. 7.7	Approx. 6.5	Approx. 10	Approx. 5.5	Approx. 3.9	6.6 (DL750,*5), 7.9 (DL750P,*5)	Approx. 8.0 <sup>-5</sup>

\*1: See each product catalog for more detailed specifications

\*3: The DL7400 series comes standard with four probe power connectors. \*4: Depends on input module

\*5: Plug-in modules are not included

\*2: Depends on model

#### Model and Suffix Codes of DL9000 series MSO models

Model	Suffix Cod	e Description
701320		DL9505L: 4ch 500MHz + Logic 16bits Max. 5 GS/s (2.5 GS/s/ch), 6.25 MW/ch
701321		DL9510L: 4ch 1GHz + Logic 16bits Max. 5 GS/s (2.5 GS/s/ch), 6.25 MW/ch
701330		DL9705L: 4ch 500MHz + Logic 32bits Max. 5 GS/s (2.5 GS/s/ch), 6.25 MW/ch
701331		DL9710L: 4ch 1GHz + Logic 32bits Max. 5 GS/s (2.5 GS/s/ch), 6.25 MW/ch
	-D	UL/CSA standard
	-F	VDE standard
Power Cable	-Q	BS standard
	-R	AS standard
	-H	GB standard
Help menu language	-HE	English Help
	-L0	No Logic Probe attached
Logic Probe	-L2	Attach two 250 MHz Logic Probes (701981)
	-L41	Attach four 250 MHz Logic Probes (701981)
	/B5	Built-in printer
	/P4 <sup>2</sup>	4 Probe power connections on rear panel
	/C83	Built-in HDD + Ethernet interface
	/C103	Ethernet interface
Options	/G2 <sup>4</sup>	User-defined math function
	/G44	Power Supply Analysis Function
	/F5 <sup>5</sup>	I <sup>2</sup> C+SPI bus analyzer
	/F7⁵	CAN+LIN+SPI bus analyzer
	/F85	I <sup>2</sup> C+CAN+LIN+SPI bus analyzer

1: Not available for DL9500 series 2: Please order /P4 option if you use either current probes or differential probes such as 701920, 701922

Suffix Code

Model

#### either one either one either one. I<sup>2</sup>C, CAN, LIN and SPI triggers are standard. Model and Suffix Codes of DL9040/9140/9240

701307	500 MHz max. 5 GS/s (2.5 GS/s/ch), 2.5 Mword/ch
701308	DL9040L digital oscilloscope 500 MHz max. 5 GS/s (2.5 GS/s/ch), 6.25 Mword/ch
701310	DL9140 digital oscilloscope 1 GHz max. 5 GS/s (2.5 GS/s/ch), 2 5 Mword/ch

701310		2.5 Mword/ch
		DL9140L digital oscilloscope
701311		1 GHz max. 5 GS/s (2.5 GS/s/ch),
701011		6.25 Mword/ch
		DL9240 digital oscilloscope
701312		1.5 GHz max. 10 GS/s (5 GS/s/ch), 2.5 Mword/ch
101012	-	
		DL9240L digital oscilloscope 1.5 GHz max. 10 GS/s (5 GS/s/ch),
701313		6.25 Mword/ch
	-D	UL/CSA standard
Power cable	-F	VDE standard
	-Q	BS standard
	-R	AS standard
	-H	GB standard
	-HE	English Help
Help menu language	-HC	Chinese Help
	-HK	Korean Help
	/B5	Built-in printer
	/P21	Probe power connections on rear panel
		(2 outputs for 900 MHz FET probe and current probe)
Options	/C8 <sup>2</sup>	Built-in hard disk + Ethernet interface
	<u>/C</u> 10 <sup>2</sup>	Ethernet interface
	/F5°	I <sup>2</sup> C + SPI bus analyzer
	/F7 <sup>2</sup>	CAN + SPI bus analyzer
	/F8°	I <sup>2</sup> C + CAN + SPI bus analyzer

1: Please specify this /P2 option if you use either current probes or differe 2: Choose either one. 3: Choose either one. I'C, CAN and SPI bus signal triggers are standard. ntial probes such as 701920 or 701922

#### DI 7440/DI 7480 Model Numbers and Suffix Codes

Model	Suffix Code	Description
		DL7440 with 4 CH input and maximum
701450		4 MW memory
		DL7440 with 4 CH input and maximum
701460		16 MW memory
701470		DL7480 with 8 CH input and maximum
/014/0		4 MW memory
701480		DL7480 with 8 CH input and maximum
701400		16 MW memory
	-D	UL/CSA standard
	-F	VDE standard
Power cable	-Q	BS standard
	-R	AS standard
	-H	GB standard
Internal storage drive		Floppy disk drive 1
	-J2	Zip® drive 1
	/B5	built-in printer
	/E4	Four additional passive probes (701470, 701480 only) <sup>2</sup>
	/EX4	Attach four 701941 probes 7.9
	/EA4	Add four 701941 probes 8.9
	/P4	Four additional probe power connectors (701470, 701480 only) 3
Options	/N3	Logic input for 701450/701470 4 (Standard option)
	/N4	Logic input for 701460/701480 4 (Standard option)
	/C7	SCSI interface
	/C10	Ethernet interface
	/G2	User-defined math function 5
	/G4	Power Supply Analysis Function 5
	/F5	I <sup>2</sup> C + SPI Bus Analyzer 6
	/F7	CAN + SPI Bus Analyzer 6
	/F8	I <sup>2</sup> C + CAN + SPI Bus Analyzer <sup>6</sup>
	/F9	FlexRay Signal Analyzer

Here Crown Series is equipped with four passive probes (700988) as standard. The DL7400 Series is equipped with four probe power connectors as standard. Select /N3 for models 701450 and 701470, and /N4 for models 701460 and 701480. Logic pr

harge. and (34 cannot be ordered together. (34 includes /32 ion /F5, /F7, and /F8 cannot be specified together. Select one only. SPI bus Analysis and Search functions are standard feature. The SPI Bus Triggers are only available as an option

700988 probes are not included when this option is specified. sption can be specified with model 701470, 701480 only. the option /E4 is specified, neither /EX4 nor /EA4 can be specified to

#### CAUTION -

• Read the product manual before using this product to ensure safe use.

#### NOTICE

- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

## OKOGAWA

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tions can be ins

#### DL1720E, DL1735E, DL1740E, DL1740EL Model Number and Suffix Codes

Model	Suffix Code		Description
701715			DL1720E digital oscilloscope with 2 ch input, 500MHz analog bandwidth and maximum 1 MW memory
701725			DL1735E digital oscilloscope with 4 ch input, 350MHz analog bandwidth and maximum 2 MW memory
701730			DL1740E digital oscilloscope with 4 ch input 500MHz analog bandwidth and maximum 2 MW memory
701740			DL1740EL digital oscilloscope with 4 ch input 500MHz analog bandwidth and maximum 8 MW memory
Power cable	-D		UL and CSA standard
	-F		VDE standard
	-Q		BS standard
	-R		AS standard
	-H		GB standard
Internal storage drive	-J1		Floppy disk drive <sup>1</sup>
	-J3		PC card interface (type II)1
Options	Options /B5		Built-in printer
	/P2		Probe power for model 701715 <sup>2</sup>
	/P4		Probe power for models 701725, 701730 and 701740 <sup>2</sup>
	/C	10	Ethernet interface
/F5			I <sup>2</sup> C + SPI bus analysis function <sup>3</sup>
		/EX2	Attach two 701941 probes 4
		/EX4	Attach four 701941 probes 5

The inst 701715 1. One 2. Sele 3. Opt 4. Opt 5. Opt

s. let //P & ter model //01715, or //P do models 701725, 701730 and 701740. let //P & ter model //01715, or //P and 701740 only. not included virtual rest, 701730 and 701740 only. en on included virtual rest, 701730, 701740 only. The 700988 probes are not included when this option is specified. tion for models 701725, 701730, 701740 only. The 700988 probes are not included when this option is specified.

#### DL1620/DL1640/DL1640L Model Numbers and Suffix Codes

Model/Options	Suffix code	Description
701605		DL1620 digital oscilloscope
701610		DL1640 digital oscilloscope
701620		DL1640L digital oscilloscope
	-AC	100-120 V & 220-240 V
	-DC1	12 VDC
	-D	UL/CSA standard
	-F	VDE standard
	-Q	BS standard
Power cable	-R	AS standard
i onoi oubio	-H	GB standard
	-Y	No power cable
	-J1	Floppy drive <sup>2</sup>
	-J2	Zip <sup>®</sup> drive <sup>2</sup>
Internal media drive	-J3	PC card drive (Type II) <sup>2</sup>
	/B5	Built-in printer
	/P2	Probe power for 701605
	/P4	Probe power for 701610 and 701620
	/C1	GP-IB + USB <sup>3</sup>
	/C10	Ethernet + USB <sup>3</sup>
Other options	/F5	I <sup>2</sup> C bus analysis function <sup>4</sup>
	/F7	CAN bus analysis function5

main unit comes standard with four passive probes (700960) for 701610/701620 and two passive probes for 701605. Select "\" for the DC power model. Available only for model 701610 and 701620. Choose one.

345 Choose The I<sup>2</sup>C The CA des the SPI analysis function. This option only be specified for model 701610 and 701620. udes the SPI analysis function. This option only be specified for model 701610 and 701620 on (/F5) incl

#### DL750/DL750P Model Numbers and Suffix Codes

Model		Suffix Code	Description
701210			DL750 main unit (16 isolated channels Slots + 16-bit logic)1
			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
	-H		GB standard (Complied with CCC)
Internal media drive <sup>2</sup>		-J1	Floppy drive
	•	J2	Zip <sup>®</sup> drive (available for the DL750 only) <sup>3</sup>
		_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 <sup>4</sup>
		/M2	Memory expansion to 25 MW/CH <sup>4</sup>
		/M3	Memory expansion to 50 MW/CH <sup>4</sup>
Other specifications	/C8		Internal 40 GB hard drive (FAT32)
		/C10	Ethernet interface
		/G2	User-defined math function
		/G3	DSP channel function
		/P4	4 Probe power (4-output)
		<b>_</b> /	/DC DC12 V power (DC10-18 V) (DL750 only)3

Plug-in modules are not included.
 Choose only one.
 S. Zip drive and DC12V power supply cannot be specified together with the DL750R
 Consort be enanified together.

#### SL1400 Model Numbers and Suffix Codes

Model	Suffix Code	Description
701240		SL1400 main unit (16 isolated Channel, 8 slots + 16-bit logic) <sup>1</sup> 210 mm width A4 thermal printer built-in
Power cable <sup>2</sup>	-D	UL/ CSA standard
	-F	VDE standard
	-R	AS standard
	-Q	BS standard
	-H	GB standard (Complied with CCC)
Internal media drive <sup>2</sup>	-J0	non Drive
	-J3	PC card drive
Language <sup>2</sup>	-HE	English, English Panel
	-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	Brobe power (4-output)

1. Plug-in modules are not includ 2. Choose only one.



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