

Specifications of Main Unit

Basic Specifications

•Input	
Type	Plug-in module (each unit has a built-in A/D converter)
Number of slots	8 (DL708E) ,16 (DL716)
Different modules can be used in combination with each other.	
•Horizontal	
Maximum record length (DL708E using two channels)	400 k words (standard) 4 M words (with /M1 option) 8 M words (with /M2 option) 16 M words (with /M3 option)
(DL716 using four channels)	1 M word (standard) 8 M words (with /M1 option) 32 M words (with /M2 option) 64 M words (with /M3 option)
Time-axis accuracy	±0.005%
Sweep time	100 k words/channel model:500 ns/div to 50,000 s/div (1/2/5 steps) Other models: 500 ns/div to 100,000 s/div (1/2/5 steps)
•Acquisition Modes	
Normal	Maximum sampling rate: 10 MS/s
Envelope	Holds peak values at maximum sampling rate, regardless of Time/div.
Box average	Increases resolution of A/D converter to a maximum of four bits.
History memory	Holds the past 1000 screenshots.
Sequential store	Specity between 2 and 1000 storage operations.
Roll	Works at maximum sampling rate of 100 kS/s (DL708E) or 200 kS/s (DL716).
•Triggers	
Modes	AUTO, AUTO-LEVEL, NORMAL, TIME
Pretrigger	0% to 100% (in 1% steps)
Sources	INT (1 to 8 channels for DL708E, 1 to 16 channels and LOGIC1, LOGIC2 for DL716), EXT, LINE
Slopes	Rise, Fall, Both
Types	Edge trigger, event/pattern trigger, A → B (n), A Delay B, Edge on A, Pulse Width Trigger, B > Time, B < Time, B Timeout, window trigger, OR trigger
*When you select LOGIC1, LOGIC2 or EXT as trigger source, only edge trigger is available.	
Time trigger	The measurement-start time and intervals can be specified.
•Screen Refresh Rate	
Using 1 channel	Maximum 30 Hz
Using 8 channels	Maximum 20 Hz (DL708E) Maximum15 Hz (DL716)
Using 16 channels	Maximum 10 Hz (DL716)

Display

Display	10.4-inch TFT color LCD
Screen size	211.2 mm (W) × 158.4 mm (L)
Total number of pixels	640 × 480 (The LCD may contain approximately 0.02% defects among all the pixels in the screen.)
Number of waveform display pixels	501 × 432
Display modes	Split: Single, Dual, Quad, Hexa, Octal Zoom: Main, Main & Z1, Main & Z1 & Z2, Z1 only, Main & Z2, Z2 only, Z1 & Z2 (Z1 and Z2 are abbreviations for zoom areas 1 and 2, respectively) X-Y: TY, XY, TY & XY
Accumulation display	PERSIST: Accumulation in one color COLOR: Infinite accumulation in eight colors representing different levels of data frequency
Maximum number of displayed traces	DL708E: 24 traces (during zooming; 8 captured waveforms + 16 enlarged waveforms) DL716: 48 traces (during zooming; 16 captured waveforms + 32 enlarged waveforms)
X-Y display	DL708E: Any one of the following can be specified for the X-axis: CH1-CH8, MATH1, MATH2. DL716: Any one of the following can be selected for the X-axis: CH1-CH16, MATH1-MATH8. (The rest of the above are simultaneously displayed on the Y-axis.)

Recorder

•Built-in Printer	
Printing method	Thermal line-dot printing
Dot density	8 dots/mm
Paper width	112 mm
Effective recording width	104 mm
Recording speed	Maximum 20 mm/s
Real-time recording	Can be used on a time axis slower than 500 ms/div.
•Real-time Hard Drive Recording	
(The optional internal HDD is required to use this function.)	
Data capacity	DL708E: Maximum 128 M words DL716: Maximum 512 M words
Maximum time-axis	1 s/div
Maximum sampling rate	DL708E: 10 kS/s (using 8 channels simultaneously) 100 kS/s (using one channel only) DL716: 20 kS/s (using 16 channels simultaneously) 200 kS/s (using one or two channels)
Restriction	This function cannot be used in combination with real-time printing, average, or sequential store.

Inter-channel computation

Record length used for calculations	
DL708E:	Maximum 100 k words (using MATH1 only) Maximum 50 k words (using MATH1 and MATH2 simultaneously)
DL716:	Maximum 400 k words (using MATH1 and MATH2 simultaneously) Maximum 100 k words (using MATH1 through MATH8 simultaneously)
Maximum number of free definable calculation waveforms	
DL708E:	NA (standard) 2 (MATH1 and MATH2; with/G2 option)
DL716 :	2 (MATH1 and MATH2; standard) 8 (MATH1 through MATH8; with /G2 option)
•Standard	
Operations	Addition, subtraction, multiplication, FFT, and phase shift
FFT	
Type	Power spectrum (PS)
Number of points	1000, 2000, 10,000 (using MATH1 only: DL708E, using MATH1 and 2: DL716)
Window functions	Rectangular, Hanning, Flat-Top
Start-point setting capability	Possible
•User define math function (optional)	
Operations	Addition, subtraction, multiplication, division, ABS, SQRT, LOG, EXP, trigonometric functions, moving averages, differentials, integrals
FFT	
Types	PS, LS, RS, PSD, CS, CH, TF
Number of points	1000, 2000, 10,000 (using MATH1 only: DL708E, using MATH1 to 8: DL716)
Window functions	Rectangular, Hanning, Flat-Top
Start-point setting capability	Yes

Waveform Measurement Functions

•Cursors	
Types	
Marker	Two markers
Horizontal	Two horizontal cursors
Vertical	Two vertical cursors
H&V	Two horizontal and two vertical cursors
User def	Cursor measurement on the horizontal axis is displayed in a unit set by the user.
Cursor measurements	A marker is moved over the data, and the time and numerical value (corresponding to the measurement or calculation at the marker position) are displayed. Cursors other than markers are moved over the screen, and data on the screen are measured. Therefore, the resolution of such measurements depends on the screen resolution.
•Automatic Measurement of Waveform Parameters	
Waveform parameters falling in a range set by cursors are measured.	
Maximum number of measured parameters	
DL708E:	8 (parameters can be set with respect to any number of pieces of data, but the total number of parameters must be 8 or less)
DL716:	16 (parameters can be set with respect to any number of pieces of data, but the total number of parameters must be 16 or less)
Measured items	P-P (Peak to Peak value), Max (maximum

value), Min (minimum value), High (most frequent high voltage value), Low (most frequent low voltage value), Avg (average value), Rms (root mean square), +Ovr (overshoot), -Ovr (undershoot), Rise (rise time), Fall (fall time), Freq (frequency), Period, +duty (High duty ratio), -duty (Low duty ratio), +Width (High pulse width), -Width (Low pulse width), Amp (amplitude), StdDev (standard deviation), Int1TY, Int2TY (area calculated TY), Int1XY, Int2XY (area calculated XY), Fdelay (time from trigger point to falling edge), Rdelay (time from trigger point to rising edge), Hist (voltage-axis histogram display)

•GO-NO GO judgment (DL716)

Parameter: Evaluation can be made using a combination of 16 parameters.
Zone: Evaluation can be made using a combination of maximum 4 zone.

•Snapshot

This function lets you keep the currently displayed waveform on the screen as a snapshot.

Screen Data Output and Saving (Copying) Functions

•Output to built-in printer

Formats
Normal Outputs a hard copy of the screenshot.
Long*n Outputs the displayed waveform enlarged by a specified magnification n.
Supported magnifications (n values): ×2, ×5, ×10, ×20, ×50
Split Sequential output of multiple traces (one at a time) to fill the entire paper width. (Use this format to output individual waveforms in a larger size when using multiple channels.)

•Output to GPIB interface, serial (RS-232) interface, floppy disk, internal HDD, external SCSI device

Formats HPGL, ThinkJet, PostScript, TIFF (black and white), TIFF (color), BMP (black and white), BMP (color)

•Output to Centronics interface

Formats ESC-P (black and white), ESC-P (color), BJ (black and white), BJ (color), LIPS, PR201, PCL5 (black and white), PCL5 (color), ESC-P2(ESC-P raster:Black and White), ESC-P2(color), (output covering several pages is supported)

Other Functions

•Keyboard function (DL716)

Assigns numerical keys to match the channel keys on the panel, enabling numerical input.

•Key protect function (DL716)

Locks the panel keys to prevent accidental entry.

•Backlight off function (DL716)

Allows the LCD backlight to be turned on and off.

External I/O

•Trig-IN/Trig-OUT

Connector type DL708E: RCA pin jack; DL716: BNC
I/O levels DL708E: CMOS level
DL716: CMOS level (Trig-OUT), TTL level (Trig-IN)

•EXT clock IN (optional on DL708E, standard on DL716)

Time axis setting range 500 ns/div to 100 ks/div (in steps of 1, 2, and 5)
Time axis accuracy ±0.005%
Input connector types BNC (DL716)/RCA pin jack (DL708E)
Input frequency range Depends on module (see table below; in table, circles indicate input capability and X's indicate where inputting is not possible).

Module	Frequency range		
	Up to 1 kHz	1 kHz to 100 kHz	100 kHz to 1 MHz
701855/701856	×	○	○
701870/ DL 716 extended logic input	○	○	○
Other	○	○	×

Input levels DL716: TTL level DL708E: CMOS level
Clock rise/fall time 2µs or less
Minimum pulse width 400 ns for both high and low (DL716/DL708E)



Transparent Protective Front Panel Cover (separately sold accessory photo: DL708E)



Soft Carrying Case (separately sold accessory for DL708E)



Opaque Protective Front Panel Cover } (standard accessory for Soft case (for storing probes, etc.) } DL708E, DL716)

•VGA video signal output	
Connector type	D-Sub 15-pin (VGA VIDEO OUT)
Output type	VGA compatible
•GP-IB interface	
Electrical and mechanical specifications	Conforms to IEEE std. 488-1978 (JIS C 1901-1987).
Functional specifications	SH1, AH1, T5, L4, SR1, RL1, PP0, DC1, DT0, C0
Protocol	Conforms to IEEE std. 488.2 1987.
•Serial (RS-232) interface	
Connector type	D-Sub 9-pin
Standard	Conforms to EIA RS-232.
Baud rates	1200, 2400, 4800, 9600, 19200 bps
•Centronics interface	
Connector type	DL708E: Half-pitch 36-pin connector DL716: Centronics connector (25-pin D-sub) compatible with IBM/PC
Standard	Conforms to Centronics.
•SCSI interface (optional on DL708E, standard on DL716)	
(Note: Standard on DL708E systems with the optional 2.1-GB internal hard drive.)	
Standard	SCSI (Small Computer System Interface), ANSI X3.131-1986
Connector type	Half-pitch 50-pin (pin type)
Connector pin assignment	Unbalanced (single-end)
Supported SCSI devices and conditions	HD drive: Drive formattable by the EZ-SCSI MO drive: Up to 640MB type which is formattable by the EZ-SCSI Zip drive: Iomega Zip drive compatible
•HP-GL Plotter Output (both GPIB and RS-232 interfaces)	
•GO-NO GO Judgment Output (DL716.)	
Connector type	Modular jack
Output level	TTL level
•32-bit extended logic input (Optional on DL716.)	
Number of inputs	32 (8 bits × 4)
Connector type	Half-pitch 26-pin connector × 4
Maximum record length	200 k words × 32 bits (standard models) 2 M words × 32 bits (models with "M1" option) 8 M words × 32 bits (models with "M2" option) 16 M words × 32 bits (models with "M3" option)
Maximum sampling rate	10 MS/s
Compatible probes	700986, 700987

External Media

•Internal floppy drive	
Number of drives	1
Size	3.5 inches
Capacity	640 KB, 720 KB, 1.2 MB, 1.44 MB (MS-DOS format)
•Internal hard disk drive (optional)	
Number of drives	1
Size	3.5 inches
Capacity	2.1 GB (SCSI drive for DL708E), 9.2 GB (SCSI drive for DL716)
Windows compatibility	The internal hard disk drive can be connected to a PC running Windows 95, Windows98 or Windows NT via the SCSI interface.

General Specifications

Reference Operating Conditions	
Ambient temperature	23 ±5°C
Ambient humidity	55 ±10% RH
Supply voltage and frequency tolerance	±1% of rating
	Allow the system to warm up for at least 30 minutes before calibrating it.
Storage temperature range	-20 to 60°C
Storage humidity range	20 to 85% RH (no condensation)
Operating temperature range	5 to 40°C
Operating humidity range	20 to 85% RH when not using printer 35 to 85% RH when using printer
Rated supply voltage	100 to 120 V AC (100-V power supply; for DL708E) Automatic switching between 100 to 120 V AC and 200 to 240 V AC (DL716)
Rated supply frequency	50/60 Hz
Allowable supply voltage range	90 to 132 V AC (100 V power supply), 180 to 264 V AC (200 V power supply)
Allowable fluctuation in supply frequency	48 to 63 Hz
Maximum power consumption	250 VA (DL708E, DL716)
Withstand voltage	1500 V AC for one minute (between power supply and ground)
Insulation resistance	Minimum 10 MΩ at 500 V DC (between power supply and ground)
External dimensions	DL708E: Approximately 370 mm (W) × 260 mm (H) × 183 mm (D) (excluding handle and projections) DL716: Approximately 355 mm (W) × 260 mm (H) × 305 mm (D) (excluding handle and projections)
Weight	DL708E: Approximately 6.8 kg (including 8-channel high-speed isolation module) or 5.3 kg (main unit only) DL716: Approximately 12.4 kg (including 16-channel high-speed isolation module) or 9.2 kg (main unit only)

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PC Utility Software for DL Series Waveform Viewer for DL series (optional)

Waveform Viewer for DL series is a software program that allows a PC to display waveform files (with “wvf” extension) from measurements made with a DL series digital oscilloscope. The program can display as many as 24 analog waveforms at the same time.

•Zoom and scrolling display

The display can be zoomed to a specified enlargement magnification. It is also easy to zoom along the vertical axis of a waveform using the mouse, and the zoom box can be moved (scrolled) automatically and continuously. Scroll speed is adjustable.

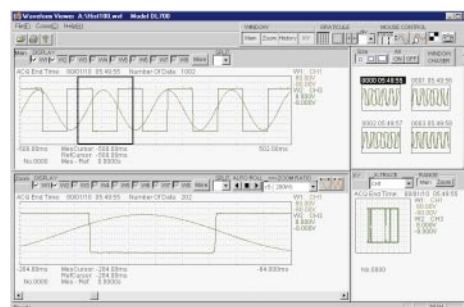
•History display and X-Y display

History mode allows you to display a list of multiple waveforms captured in history memory. You can also stack multiple displayed waveforms, and select which waveforms to stack.

X-Y display mode lets you create a graph with any waveform set on the X-axis.

•Conversion to ASCII format

Waveform files can be converted to ASCII format (CSV format). You can convert all of the data in a file, or just a zoomed area.



■Specifications

Waveform Display

- File types: Waveform files in waveform format (with “wvf” extension) and waveform files recorded in real-time (with “rtm” extension)
- Data transfer methods: ① Via SCSI interface (access the DL hard drive from your PC) ② Via floppy disk ③ Via GP-IB interface (National Instruments GP-IB boards and PCMCIA boards supported) ④ Via RS-232 interface
- Number of displayed waveforms: Maximum 24 simultaneous analog waveforms + maximum 24 zoom waveforms (file specified); logic waveform display capability
- File capacity: A maximum of 512 M of P-P compressed data can be displayed.
- Zooming: The zoom magnification can be specified. Zooming is possible on both the vertical and horizontal axes.
- Zoom window scrolling: The zoom position moves (scrolls) continuously in the time-axis direction. The scroll speed can be adjusted (5 levels).
- Waveform movement: Drag a waveform with the mouse to move it up or down in the window. (as many as 14 waveforms)
- Screen dividing: The screen can be divided into as many as 16 different windows (Main and Zoom screens).
- Display scale setting: The upper and lower limits for the waveform display window can be entered (modified) directly.
- History display: Multiple waveforms can be displayed at the same time, and can be stacked.
- X-Y display: Put any waveform on the X-axis.
- Saving image files: A displayed waveform window can be saved in BMP format.

Calculation Function

- Cursor measurement

Printing Function

- Displayed waveforms can be output to a printer, and comments can be entered.

Waveform Data Conversion

- Real-time data files (with “rtm” extension) can be converted to waveform format (“wvf” extension). (Files can be compressed to 1/100 or 1/1000 when saved.)
- Real-time data files and waveform files can be converted to ASCII (CSV) format. It is also possible to convert just a zoomed area.

You can download a trial version of Waveform Viewer for DL series from Yokogawa’s web site. Point your browser to <http://www.yokogawa.co.jp/Measurement/English/TI-e/700919/700919-e.html>
See our site for detailed product information.

■Model and Suffix Code

Model	Description
700919	Waveform Viewer for DL series

Accessories

Accessories (optional)

Product	Model/ Part No.	Description	Order Quantity
Adapter connector	366971	RS-232-C adapter connector	1
Printer cable	B9946YY	Exclusively for centronics interface (for DL 708E)	1
Conversion adapter	366927	BNC (plug)-RCA (jack) conversion	1
Conversion adapter	366928	BNC (jack)-RCA (plug) conversion	1
Soft carrying case	700911	For DL708E only	1
Protective front panel cover	700912	For DL708E only; transparent	1
Protective front panel cover	B9946EA	For DL708E only; opaque	1
Soft case	B9946EB	For storing accessories	1
Protective full-panel cover	B9949GA	For DL716 only (opaque)	1
Protective full-panel cover	700913	For DL716 only (transparent)	1
High-speed logic probe (*1)	700986	For 32-bit exteclred logic input	1
High-speed logic probe (*2)	700987	For 32-bit exteclred logic input	1

*1 Includes connector leads B9879PX and B9879KX (one each).

*2 Measurement leads 366961 or 758917 and either 758922 or 758929 must be purchased separately to use this probe in measurements.

Accessories for High-Speed Isolation Module and High-Speed Module (optional)

Product	Model	Description	Order Quantity
Conversion adapter *1	366921	Conversion adapter (BNC-banana female))	1
Adapter *1	366923	T-type for BNC	1
BNC cable *1	366926	BNC-alligator clip cable	1
BNC cable *1	366924	BNC cable (BNC-BNC; 1 meter)	1
BNC cable *1	366925	BNC cable (BNC-BNC; 2 meter)	1
BNC adapter	758924	BNC (male) 4 mm socket (+,-) adapter	1

*1 These adapters and cables are not insulated and should therefore be used for low-voltage measurements (42 V or less).

Probe Model

Product	Model	Description	Order Quantity
Special isolation probe	700929	For 701855	1
10:1/1:1 switching probe	700998	Works with 701856	1

Accessories for High-resolution,High-voltage Isolation Module and High-resolution Isolation Module (optional)

For high-voltage measurements (42 V or higher)

Product	Model	Description	Order Quantity
Measurement lead	758917	Two leads per set; adapters are sold separately. (Use with 758922 or 758929.)	1
Alligator clip adapter	758922	For 758917 measurement lead (two per set). Rated voltage: 300 V	1
Alligator clip adapter	758929	For 758917 measurement lead (two per set). Rated voltage: 1000 V	1

For low-voltage measurements (42 V or lower)

Product	Model	Description	Order Quantity
Measurement lead	366961	Cable with alligator clip adapter	1
Adapter	366922	Banana (male)-BNC	1
Adapter	751512	Safety connector-binding post adapter	1

Accessories for Logic Input Module

Product	Model	Description	Order Quantity
High-speed logic probe (*1)	700986	For DL716 (main unit) and 701870	1
High-speed logic probe (*2)	700987	For DL716 (main unit) and 701870	1

*1 Includes connector leads B9879PX and B9879KX (one each).

*2 Measurement leads 366961 or 758917 and either 758922 or 758929 must be purchased separately to use this probe in measurements.

Measurement lead for 700986 logic probes

Product	Part No.	Description	Order Quantity
Connector lead	B9879PX	Alligator clip lead (for eight bits)	1
Connector lead	B9879KX	IC clip lead (for eight bits)	1

Measurement lead for 700987 logic probes

For high-voltage measurements (42 V or higher)

Product	Model	Description	Order Quantity
Measurement lead	758917	Adaptor is optional (for 1 bit measuremet) (used with 758922 or 758929)	1
Alligator clip adapter	758922	Rated voltage: 300 V	1
Alligator clip adapter	758929	Rated voltage: 1000 V	1

For low-voltage measurements (42 V or lower)

Product	Model	Description	Order Quantity
Measurement lead	366961	Cable with alligator clip adapter (for one bit)	1

Strain Module (701880) Accessories (optional)

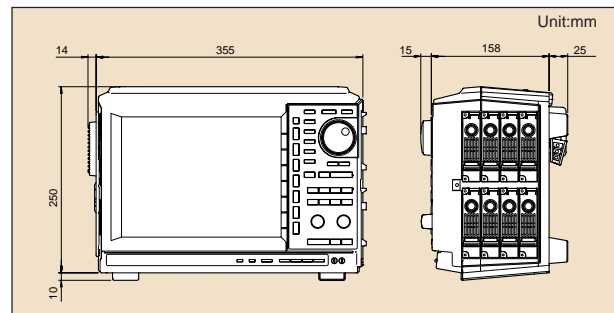
Product	Model/ Part No.	Description	Order Quantity
Bridge head	700932	Bridge resistance: 120Ω Cable length: 5 m	1
Bridge head	700933	Bridge resistance: 350Ω Cable length: 5 m	1
Connector adapter cable	700940	NDIS-MIL C 26482 Compatible (Bendix) connector adapter cable (length: 1.5 meters)	1
Cable connector	A1002JC	NDIS connector for strain module	1

Spares (for Main Unit)

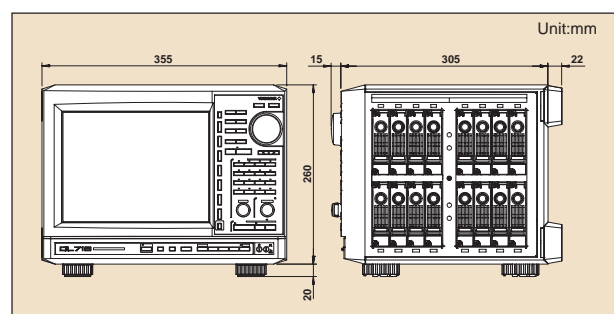
Product	Part No.	Description	Order Quantity
Printer roll paper	B9850NX	30 meters per roll	5 rolls

See the DL Series Accessory Catalog (Bulletin 7001-63E) for information on other accessories.

Dimensions (DL708E)



Dimensions (DL716)



DL708E Model and Suffix Codes

Model	Suffix code	Description
701820		DL708E Digital Scope*1
Power supply voltage	-1	100 V to 120 V
	-5	200 V to 240 V
Power cable	-D	UL, CSA Standard
	-F	VDE Standard
	-Q	BS Standard
	-R	SAA Standard
Help Messages	-HJ	Japanese and English help messages
	-HG	English and German help messages
	-HF	English and French help messages
	-HL	English and Italian help messages
Optional memory expansion specifications	/M1	Memory expansion to 1 Mwords/ch*2
	/M2	Memory expansion to 2 Mwords/ch*2
	/M3	Memory expansion to 4 Mwords/ch*2
Other optional specifications	/C7	SCSI interface*3
	/C8	2.1 GB internal HDD*3
	/G2	User define math function
	/F2	External clock input

*1 Plug-in modules are not included with the main unit.

*2 Select one option only (multiple memory expansion options cannot be used together).

*3 If you select the 2.1-GB internal hard drive (suffix code /C8), the SCSI interface is automatically included. Therefore, you need not select the /C7 option once you select /C8.

Standard Accessories for DL708E

Product	OrderQuantity
Power cable	1
Instruction Manuals (one set)	1
Front panel protection cover (B9946EA; opaque)	1
Printer roll paper	1
Rubber feet (A9088ZM; two per set)	2
Cover panel (for module blank channels)	8
Soft case (B9946EB; for storing accessories)	1

DL716 Model and Suffix Codes

Model	Suffix Code	Description
701830		DL716 Digital Scope *1 (power supply: 100 to 120/200 to 240 V AC, automatic switching)
701831		DL716 Digital Scope *1 (power supply: rated at 12 V DC, operable with 10 to 16 V DC)
Power cable (for 701830 only)	-D	UL,CSA standard(for 701830 only)
	-F	VDE standard(for 701830 only)
	-Q	BS standard(for 701830 only)
	-R	SAA standard(for 701830 only)
Help messages	-HJ	Japanese and English help messages
	-HG	English and German help messages
	-HF	English and French help messages
	-HL	English and Italian help messages
Optional features	/M1	Memory expansion to 2MW/ch *2
	/M2	Memory expansion to 8MW/ch *2
	/M3	Memory expansion to 16MW/ch *2
	/C8	9.2 GB internal HDD
	/C10	Ethernet + 9.2 GB internal HDD *3
	/G2	User define math function
	/N1	32-bit extended logic input

*1 No plug-in module is included.

*2 Only one of these can be chosen at the same time.

*3 Option /C10 includes the feature of option /C8. Both cannot be specified at the same time.

Standard Accessories for DL716

Product	Quantity
Power cable	1
Instruction Manuals (one set)	1
Front panel protection cover (B9949GA; opaque)	1
Printer roll paper	1
Rubber feet (A9088ZM; two per set)	2
Cover panel (for module blank channels)	16
Soft case (B9946EB; for storing accessories)	1

Plug-in Module Model and Suffix Codes

Model	Description
701855	High-speed isolation module (12-bit A/D resolution)
701856	High-speed module (12-bit A/D resolution)
701852	High-resolution, high-voltage isolation module
701853	High-resolution isolation module
701857	High-resolution voltage/RMS isolation module
701860	Temperature module
701870	Logic input module
701880	Strain module
701885	Strain module (with shunt Cal)

Probes or cables are not included with any of the modules. Probes must be purchased separately as accessories if needed.

Compatibility Between Plug-in Modules and DL708 / DL708E / DL716

Plug-in Module	DL708	DL708E	DL716	Remarks
701852	○ (*1)	○	○	*1: Requires firmware version 2.00 or higher in main unit.
701853	○ (*1)	○	○	*1: Requires firmware version 2.00 or higher in main unit.
701855	○ (*3)	○ (*3)	○	*3: Requires firmware version 4.00 or higher in main unit.
701856	○ (*3)	○ (*3)	○	*3: Requires firmware version 4.00 or higher in main unit.
701857	○ (*4)	○ (*4)	○ (*5)	*4: Requires firmware version 5.00 or higher in main unit. *5: Requires firmware version 2.00 or higher in main unit.
701860	○ (*1)	○	○	*1: Requires firmware version 2.00 or higher in main unit.
701870	○ (*1)	○	○	*1: Requires firmware version 2.00 or higher in main unit.
701880	○ (*2)	○	○	*2: Requires firmware version 3.00 or higher in main unit.
701885	○ (*3)	○ (*3)	○	*3: Requires firmware version 4.00 or higher in main unit.

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.



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