

Specifications

Input channels:	4/8 analog (depends on model), and 16-bit logic (optional)					
Input coupling settings:	AC 1 MΩ, DC 1 MΩ, GND, DC 50 Ω 1 MΩ + 1 0% 50 Ω + 1 0%					
Voltage axis sensitivity setting range:						
For 1 MΩ input:2 mV/div to 10 V/div (steps of 1, 2, or 5)						
For 50 Ω input: 2 mV/div to 1 V/div (steps of 1, 2, or 5) Maximum input voltage:						
For 1 MΩ input (frequent	cy of 1 kHz or less): 400 V (DC + ACpeak) (282 Vrms CAT II)					
For 50 Ω input: 5 Vrms or less and 10 Vpeak or less						
Frequency characteristic ¹ :						
For T Wisz Input. (using	10 V/div to 10 mV/div: DC to 400 MHz					
	5 mV/div to 2 mV/div: DC to 300 MHz					
For 50 Ω input:	1 V/div to 10 mV/div: DC to 500 MHz					
A/D conversion resolution	s mv/div to 2 mv/div: DC to 400 MHz					
Maximum sampling rate:	Real-time sampling mode:					
	Interleave mode on: 2 GS/s ²					
	Interleave mode off: 1 GS/s Equivalent time sampling mode: 100 GS/s					
Maximum record length:						
701450/701470	Interleave mode on: 4 MW/channel ²					
701/60/701/90	Interleave mode off: 2 MW/channel					
701400/701460	Interleave mode off: 8 MW/channel					
DC accuracy1:	±(1.5% of 8 div + offset voltage accuracy)					
Offset voltage axis accura	acy ¹ :					
	2 mV/div to 50 mV/div \pm (1% of setting + 0.2 mV)					
	$1 \text{ V/div to 10 V/div } \pm (1\% \text{ of setting } \pm 2 \text{ mV})$					
Time axis setting range:	1 ns/div to 50 s/div (for record length of 10 kW or greater)					
T ime base a second 1	1 ns/div to 5 s/div (for record length of 1 kW)					
External clock input:	±0.005%					
External older input.	clock signal only)					
Trigger						
Trigger modes:	Auto, Auto Level, Normal, Single, Single (N)					
Trigger sources:	CH1 through CH8 (the number of channels depends on the model: signals input to individual input					
Trigger sources:	CH1 through CH8 (the number of channels depends on the model; signals input to individual input terminals), LINE (connected utility power signal), EXT					
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Analysis functions	
SPI signal analysis and s	earch functions:
	Analyzes and searches for data based on the following
	inputs: CH1: CLOCK, CH2: DATA1, CH3: DATA2, CH4-
Analysis function:	DATA1 DATA2 and CS statuses are displayed in
Analysis function.	increments of serial data bytes (8 bits). Analysis results
	can be output to files.
Search function:	Automatically searches for undefined values or specified byte pattern based on analysis results
Search-and-zoom function	s: Edge, serial pattern, parallel pattern, pulse width, auto scroll
History search functions:	Zone, parameter
Cursor measurements:	Horizontal, Vertical, Marker, Degree
Automatic measurement	P-P Max Min Ave Rms Sdev High Low +OShot -
	OShot, Freq, Period, Rise, Fall, +Width, -Width, Duty,
	Burst1, Burst2, Pulse, AveFreq, AvePeriod, Int1TY,
	The following statistical processes can also be performed
	Covered parameters: Those listed above.
	Statistic types: Min, Max, Ave, Cnt, Sdv
	Statistic modes: Normal, Cycle, History
Mathematical functions:	Addition, subtraction, multiplication, binary conversion, inversion, differentiation, integration, power spectrum
User-defined calculations	(optional):
	Equations can be set based on user-defined
	combinations of operators.
	SQR, LOG, EXP, NEG, SIN, COS, TAN, ATAN, PH,
	DIF, INTG, BIN, P2, P3, F1, F2, FV, PWHH, PWHL,
	PWLH, PWLL, PWXX, FILT1, FILT2, HLBT, MEAN,
	FFT types; LS, PS, PSD, CS, TF, CH
GO/NO-GO judgment:	Evaluation based on automatically measured waveform
Saraan data sutsut	parameter values and waveform zones
Built-in printer (optional):	Paper width: 112 mm
Duit in printer (optional).	Output formats: Normal, Long
External printers:	Output to external printers through the LISB peripheral
External printers.	output to external printers through the GOD peripheral
External printers.	port or Ethernet port.
External printers.	port or Ethernet port. Supported printer commands: ESC/P, ESC/P2, LIPS3, PCL5. BJ. PostScript (through Ethernet only)
Floppy disk/Zip [®] /SCSI/Ne	by the second printer commands: ESC/P, ESC/P2, LIPS3, PCL5, BJ, PostScript (through Ethernet only) twork drive/PC card:
Floppy disk/Zip [®] /SCSI/Ne	but of the set of the
Floppy disk/Zip [®] /SCSI/Ne	but of the output formats: PostScript, TIFF, BMP, JPEG, PNG
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces:	GP-IB, USB-PC connector, USB peripheral connector, Ethernet (4000 ASE TX 400
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces:	GP-IB, USB-PC connector, USB peripheral connector, Ethernet (100BASE-TX, 10BASE-T; optional), SCSI (optional)
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O:	GP-IB, USB-PC connector, USB peripheral connector, Ethernet (100BASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O:	GP-IB, USB-PC connector, USB peripheral connector, Ethernet (100BASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/ trigger gate input, one trigger output, one RGB video
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O: Logic input (optional):	GP-IB, USB-PC connector, USB peripheral connector, Ethernet 1008ASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/ trigger gate input, one trigger output, one RGB video signal output (VGA) Measured with 701981 logic probe (8 bits)
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O: Logic input (optional):	GP-IB, USB-PC connector, USB peripheral connector, Ethernet 1008ASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/ trigger gate input, one trigger output, one RGB video signal output (VGA) Measured with 701981 logic probe (8 bits). Number of inputs: 16 bits (using two logic probes)
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O: Logic input (optional): Logic probe (701981, solu	GP-IB, USB-PC connector, USB peripheral connector, Ethernet 1008ASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/ trigger gate input, one trigger output, one RGB video signal output (VGA) Measured with 701981 logic probe (8 bits). Number of inputs: 16 bits (using two logic probes) d separately)
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O: Logic input (optional): Logic probe (701981, sold Number of inputs: Maximum foresh forester	GP-IB, USB-PC connector, USB peripheral connector, Ethernet port. Supported printer commands: ESC/P, ESC/P2, LIPS3, PCL5, BJ, PostScript (through Ethernet only) etwork drive/PC card: Output formats: PostScript, TIFF, BMP, JPEG, PNG GP-IB, USB-PC connector, USB peripheral connector, Ethernet (100BASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/ trigger gate input, one trigger output, one RGB video signal output (VGA) Measured with 701981 logic probe (8 bits). Number of inputs: 16 bits (using two logic probes) d separately) 8
Floppy disk/Zip®/SCSI/Ne Rear Panel I/O Interfaces: Signal I/O: Logic input (optional): Logic probe (701981, sold Number of inputs: Maximum foggle frequence Input voltage range	GP-IB, USB-PC connector, USB peripheral connector, Ethernet 100BASE-TX, 10BASE-T; optional), SCSI (optional) One for external trigger input/external clock input/ trigger gate input, one trigger output, one RGB video signal output (VGA) Measured with 701981 logic probe (8 bits). Number of inputs: 16 bits (using two logic probes) d separately) 8 y:250 MHz ±10 V (DC + AC peak)
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2: When interleave mode is on, the number of available channels is half the installed number of channels.

For further details, visit our homepage at

http://www.yokogawa.com/tm/Bu/DL7400/

Model and Suffix Codes

Model	Suffix Code	Description
701450		DL7440 digital oscilloscope with 4 CH input and
		maximum 4 MW memory
701460		DL7440 digital oscilloscope with 4 CH input and maximum 16 MW memory
701470		DL7480 digital oscilloscope with 8 CH input and maximum 4 MW memory
701480		DL7480 digital oscilloscope with 8 CH input and maximum 16 MW memory
	-D	UL and CSA standard
Power cable	-F	VDE standard
	-Q	BS standard
	-R	SAA standard
Internal	-J1	Floppy disk drive ¹
storage drive	-J2	Zip [®] drive ¹
	/B5	built-in printer
/E4		Four additional passive probes(701470, 701480 only) ²
Options	/P4	Four additional probe power connectors(701470, 701480 only) ³
	/N3	Logic input for 701450/701470 ⁴
	/N4	Logic input for 701460/701480 ⁴
	/C7	SCSI interface
	/C10	Ethernet interface
	/G2	User-defined math

1: Select one only. 2: The DL7400 Series is standard-equipped with four passive probes (700988).

The DL7400 Series is standard-equipped with four probe power connectors.
 Select /N3 for models 701450 and 701470, and /N4 for models 701460 and 701480. Logic probes are sold separately. Purchase logic probe model 701981 (shown below under "Accessories (Optional)").

Standard Accessories

Name	Q'ty
Power cable	1
Passive probes (700988)	4
Printer roll paper (when option /B5 is specified)	1
User's manual (one set)	1
Front cover (transparent)	1
Soft carrying case (for probes, etc.)	1

Accessories (Optional)

Name	Model	Specifications
Passive probe	700988	10 M Ω (10:1), 400 MHz, 1.5 meters (one per unit)
FET probe	700939	900 MHz band
Logic probe (for DL7400)	701981	8-bit input, 250 MHz toggle frequency
100:1 probe	700978	100 MHz band
Differential probe	700925	DC to 15 MHz band
Differential probe	700924	DC to 100 MHz band
Differential probe	701920	DC to 500 MHz band
Current probe	700937	DC to 50 MHz band, 15 Apeak
Current probe	701930	DC to 10 MHz band, 150 Arms

Related Products DL1700 Series

Digital Oscilloscope





Yokogawa's Approach to Preserving the Global Environment =

- Yokogawa's electrical products are developed and produced in facilities that have received ISO14001 approval.
- In order to protect the global environment, Yokogawa's electrical products are designed in accordance with Yokogawa's
- Environmentally Friendly Product Design Guidelines and Product Design Assessment Criteria.



Dimensions (Models 701450, 701460, 701470, and 701480)





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NOTICE

• Before operating the product, read the user's 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.