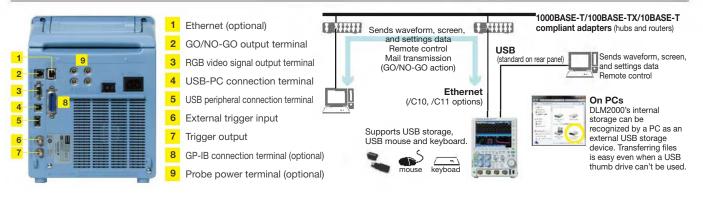
onnectivity

Wide range of interface and software

Broad Connectivity and Easier Control



Software Control

http://tmi.yokogawa.com/ea/products/oscilloscopes/oscilloscopes-application-software/

	Free Software	Optional Software Trial version available		
Off-line waveform display and analysis	XviewerLITE -Basic check- Zoom, V-cursor, conversion to CSV format	Xviewer –Advanced Analysis– Advanced and useful functions are supported. Good for precise, off-line waveform analysis.		
Waveform monitoring on a PC	XWirepuller Remote monitor and operation	 Waveform observation and analysis Cursor, Parameteric Measure Statistical Analysis Multiple file display Advanced waveform operations Comment, marking, printing and making report 		
Data transfer to a PC	Transferring image files	Optional Math computation feature Remote monitor Instruments communication function Transferring waveform & image files		
Command control Custom software	Control library "TMCTL" For Visual Studio	MATLAB Tool Kit		
development	DL-Term Interactive tool LabVIEW instrument driver	Remote control from MATLAB and data file importing.		

Main Specification

Model name	Frequency bandwidth	Input terminal	Max. sample rate		
DLM2022 (710105)	200 MHz				
DLM2032 (710115)	350 MHz	2 analog channels	1.25 GS/s (interleave mode off) 2.5 GS/s		
DLM2052 (710125)	500 MHz				
DLM2024 (710110)	200 MHz	4 analog channels or	(interleave mode on)		
DLM2034 (710120)	350 MHz	3 analog channels	(intelleave mode on)		
DLM2054 (710130)	500 MHz	+ 8 bit logic			
analog Signal input					
nput channels					
Analog input	DLM20x2: CH1, C DLM20x4: CH1 to	CH2 CH4 (CH1 to CH3 wher	n using logic input)		
nput coupling setting	AC, DC, DC50 Ω,	GND			
nput impedance					
Analog input		1 MΩ ±1.0%, approximately 20 pF 50 Ω ±1.0% (VSWR 1.4 or less, DC to 500 MHz)			
Voltage axis sensitiv setting range		1 MΩ 2 mV/div to 10 V/div (steps of 1-2-5)			
Max. input voltage	1 MΩ 150 Vrms 50 Ω Must not				
Max. DC offset setti	ng 1 MO 2 mV/div 1	to 50 mV/div +1 V			
range		iv to 500 mV/div ±10 v			
0	1 V/div to	10 V/div ±100	V		
		iv to 500 mV/div ±5 V			
ertical-axis (voltage-a	,				
DC accuracy ^{*1}	±(1.5% of 8 div +	offset voltage accuracy)			
Offset voltage accur	,	-(.,			
	100 mV to 500 mV	100 mV to 500 mV/div ±(1% of setting + 2 mV) 1 V to 10 V/div ±(1% of setting + 20 mV)			

	3 dB attenuat		DLM202x	DLM203	x DLM205x
1 MΩ (when using	100 mV to 10	00 V/div	200 MHz	350 MH	z 500 MHz
passive probe)	20 mV to 50	mV/div	150 MHz	300 MH;	z 400 MHz
50 Ω	10 mV to 500) mV/div	200 MHz	350 MH;	z 500 MHz
	2 mV to 5 mV	//div	150 MHz	300 MH;	z 400 MHz
Isolation between channels	Maximum ba	andwidth:	-34 dB (typica	al value)	
Residual noise level ³	The larger of	0.4 mV rr	ms or 0.05 div	rms (typical v	value)
A/D resolution	8 bit (25 LSB	/div) Max	. 12 bit (in Hig	h Resolution	mode)
Bandwidth limit	FULL, 200 MHz, 100 MHz, 20 MHz, 10 MHz, 5 MHz, 2 MHz, 1 MHz, 500 kHz, 250 kHz, 125 kHz, 62.5 kHz, 32 kHz, 16 kHz, 8 kHz (can be set for each channel)				
Maximum sample rate	Real time sar	mpling mo	ode Interlea Interlea		25 GS/s
			Interiea	Ve ON 2.5	i GS/s
	Repetitive sa	Impling m			i GS/s
Maximum record length (Po		Impling m	ode 125 GS	/s	
Maximum record length (Poi		Impling m		/s	Single Interleave
Maximum record length (Po		/M1S	ode 125 GS	/s	
Maximum record length (Po	ints)		node 125 GS Repeat	/s Single	Single Interleave
Maximum record length (Po	2 ch model	/M1S	Repeat 6.25 M	/s Single 25 M	Single Interleave
Maximum record length (Po	2 ch model	/M1S /M1	Repeat 6.25 M 6.25 M	/s Single 25 M 25 M	Single Interleave 62.5 M 62.5 M
Maximum record length (Po Ch-to-Ch deskew	2 ch model	/M1S /M1 /M2	node 125 GS Repeat 6.25 M 6.25 M 12.5 M	/s Single 25 M 25 M 62.5 M	Single Interleave 62.5 M 62.5 M 125 M
Ch-to-Ch deskew	2 ch model 4 ch model ±100 ns	/M1S /M1 /M2 /M3	node 125 GS Repeat 6.25 M 6.25 M 12.5 M	/s Single 25 M 25 M 62.5 M 125 M	Single Interleave 62.5 M 62.5 M 125 M
	2 ch model 4 ch model ±100 ns	/M1S /M1 /M2 /M3	Repeat 6.25 M 6.25 M 12.5 M 25 M	/s Single 25 M 25 M 62.5 M 125 M	Single Interleave 62.5 M 62.5 M 125 M

Number of input	S	8 bit (excl. 4 ch input and logic input)			
Maximum toggle frequency ¹		Model 701988: 100 MHz, Model 701989: 250 MHz			
Compatible probes		701988, 701989 (8 bit input) (701980, 701981 are available)			
Min. input voltag	e	701988: 500 mVp-p, 701989: 300 mVp-p			
Input range		Model 701988: ±40 V, Model 701989: threshold ±6 V			
Max. nondestruc	tive input voltage	±40 V (DC + ACpeak) or 28 Vrms (when using 701989)			
Threshold level s		Model 701988: ±40 V (setting resolution of 0.05 V)			
Input impedance		Model 701989: ±6 V (setting resolution of 0.05 V) 701988: Approx. 1 MΩ/approx. 10 pF			
Maximum sampling rate		701989: Approx. 100 kΩ/approx. 3 pF 1.25 GS/s			
Maximum record	l length (Points)	Repeat Single			
		/M1 6.25 M 25 M			
		/M2 12.5 M 62.5 M			
		/M3 25 M 125 M			
Triggers					
Trigger modes	Auto, Auto Level	l, Normal, Single, N-Single			
Trigger type, trig		,			
A triggers	Edge	CH1 to CH4, Logic, EXT, LINE			
00	Edge OR	CH1 to CH4			
		CH1 to CH4, Logic, EXT			
	State	CH1 to CH4, Logic			
	Pulse width	CH1 to CH4, Logic, EXT			
	State width	CH1 to CH4, Logic			
	TV	CH1 to CH4			
	Serial Bus	I ² C (optional) CH1 to CH4, Logic			
		SPI (optional) CH1 to CH4, Logic			
		UART (optional) CH1 to CH4, Logic FlexRay (optional) CH1 to CH4			
		CAN (optional) CH1 to CH4			
		CAN FD (optional) CH1 to CH4			
		LIN (optional) CH1 to CH4 SENT (optional) CH1 to CH4, Logic			
		PSI5 (optional) CH1 to CH4			
		User defined CH1 to CH4			
AB triggers	A Delay B 10) ns to 10 s (Edge, Edge Qualified, State, Serial Bus)			
AB triggers) ns to 10 s (Edge, Edge Qualified, State, Serial Bus) to 10º (Edge, Edge Qualified, State, Serial Bus)			
AB triggers	A to B(N) 1 t				
	A to B(N) 1 to Dual Bus Se	to 10º (Edge, Edge Qualified, State, Serial Bus)			
Trigger level setti	A to B(N) 1 t Dual Bus Se ing range CH	to 10° (Edge, Edge Qualified, State, Serial Bus) erial Bus only			
Trigger level setti Trigger level setti	A to B(N) 1 1 Dual Bus Se ing range CH ing resolution CH	to 10° (Edge, Edge Qualified, State, Serial Bus) erial Bus only 11 to CH4 ±4 div from center of screen			
Trigger level setti Trigger level setti Trigger level acci	A to B(N) 1 to Dual Bus Se ing range Ch ing resolution Ch uracy ⁻¹ Ch	to 10° (Edge, Edge Qualified, State, Serial Bus) erial Bus only 11 to CH4 ±4 div from center of screen 11 to CH4 0.01 div (TV trigger: 0.1 div)			
Trigger level setti Trigger level setti Trigger level acci Window Compar	A to B(N) 1 to Dual Bus Se ing range Ch ing resolution Ch uracy ⁻¹ Ch	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only 11 to CH4 ±4 div from center of screen 11 to CH4 0.01 div (TV trigger: 0.1 div) 11 to CH4 ±(0.2 div + 10% of trigger level)			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display	A to B(N) 1 ti Dual Bus See ing range CH uracy ¹¹ CH rator Center/Wi	to 10° (Edge, Edge Qualified, State, Serial Bus) erial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4			
Trigger level setti Trigger level setti Trigger level accu Window Compar Display ⁵	A to B(N) 1 ti Dual Bus See ing range CH uracy ¹¹ CH rator Center/Wi	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only 11 to CH4 ±4 div from center of screen 11 to CH4 0.01 div (TV trigger: 0.1 div) 11 to CH4 ±(0.2 div + 10% of trigger level)			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display ⁵ Functions	A to B(N) 1 ti Dual Bus Se ing range CH uracy'1 CH rator Center/Wi 8.4-inch TFT co	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA)			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display ^S Display ^S Functions Waveform	A to B(N) 1 1 Dual Bus See ing range CH ing resolution CH urracy ⁻¹ CH rator Center/Wi 8.4-inch TFT co Normal, Envelo	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA)			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display ^S Display ^S Functions Waveform acquisition mode	A to B(N) 1 1 Dual Bus See ing range CH ing resolution CH urracy ⁻¹ CH rator Center/Wi 8.4-inch TFT co Normal, Envelo	to 10° (Edge, Edge Qualified, State, Serial Bus) srial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA) ppe, Average			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display Display ⁵ Functions Waveform acquisition mode High Resolution	A to B(N) 1 11 Dual Bus See ing range CF ing resolution CF uracy' ¹ CF rator Center/Wi 8.4-inch TFT co Normal, Envelo	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA)			
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Trigger level setti Trigger level setti Trigger level acci Window Compar Display ⁵ Functions Waveform acquisition mode High Resolution mode Sampling modes	A to B(N) 1 ti Dual Bus Se ing range CH ing resolution CH uracy' ¹ CH ator Center/Wi 8.4-inch TFT co Normal, Envelo as Max. 12 bit (the equivalently by B Real time, inter Select OFF, Int	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only 11 to CH4 ±4 div from center of screen 11 to CH4 0.01 div (TV trigger: 0.1 div) 11 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA) ppe, Average e resolution of the A/D converter can be improved placing a bandwidth limit on the input signal) rpolation, repetitive sampling ensity (waveform frequency by brightness), or Color			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display ⁵ Functions Waveform acquisition mode High Resolution mode Sampling modes	A to B(N) 1 11 Dual Bus Sec ing range CH uracy'1 CH rator Center/Wi 8.4-inch TFT co Normal, Envelo ses Max. 12 bit (the equivalently by s Real time, inter Select OFF, Int (waveform freq	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA) pope, Average e resolution of the A/D converter can be improved r placing a bandwidth limit on the input signal) rpolation, repetitive sampling ensity (waveform frequency by brightness), or Color uency by color)			
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Trigger level setti Trigger level setti Trigger level acci Window Compar Display Display ⁵ Functions Waveform acquisition mode High Resolution mode Sampling modes Accumulation Roll mode	A to B(N) 1 11 Dual Bus Se ing range CH uracy'1 CH ator Center/Wi 8.4-inch TFT co Normal, Envelo s Max. 12 bit (the equivalently by s Real time, inter Select OFF, Int (waveform freq Accumulation t	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA) ppe, Average e resolution of the A/D converter can be improved r placing a bandwidth limit on the input signal) rpolation, repetitive sampling ensity (waveform frequency by brightness), or Color juency by color) ime: 100 ms to 100 s, Infinite I ms/div to 500 s/div (depending on the record length setting)			
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Trigger level setti Trigger level setti Trigger level acci Window Compar Display Display ⁵ Functions Waveform acquisition mode High Resolution mode Sampling modes Accumulation	A to B(N) 1 11 Dual Bus Se ing range CH ing resolution CH varacy ⁻¹ CH 8.4-inch TFT co Normal, Envelo as Max. 12 bit (the equivalently by s Real time, inter Select OFF, Int. (waveform freq Accumulation t Enabled at 100 Two zooming w Zoom factor Scroll	to 10° (Edge, Edge Qualified, State, Serial Bus) arial Bus only H1 to CH4 ±4 div from center of screen H1 to CH4 0.01 div (TV trigger: 0.1 div) H1 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA) ppe, Average e resolution of the A/D converter can be improved r placing a bandwidth limit on the input signal) rpolation, repetitive sampling ensity (waveform frequency by brightness), or Color uency by color) time: 100 ms to 100 s, Infinite D ms/div to 500 s/div (depending on the record length setting) vindows can be set independently (Zoom1, Zoom2) ×2 to 2.5 points/10 div (in zoom area) Auto Scroll			
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Trigger level setti Trigger level setti Trigger level acci Window Compar Display ¹⁵ Functions Waveform acquisition mode High Resolution mode Sampling modes Accumulation Roll mode Zoom function	A to B(N) 1 1 Dual Bus Se ing range CH ing resolution CH varacy'1 CH 8.4-inch TFT cd Normal, Envelo 8.4 Max. 12 bit (the equivalently by 5 Real time, inter Select OFF, Int. (waveform freq Accumulation t Enabled at 100 Two zooming w Zoom factor Scroll Search function	to 10° (Edge, Edge Qualified, State, Serial Bus) srial Bus only 41 to CH4 ±4 div from center of screen 41 to CH4 0.01 div (TV trigger: 0.1 div) 41 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 olor liquid crystal display, 1024 × 768 (XGA) bope, Average a resolution of the A/D converter can be improved r placing a bandwidth limit on the input signal) rpolation, repetitive sampling ensity (waveform frequency by brightness), or Color uency by color) time: 100 ms to 100 s, Infinite 0 ms/div to 500 s/div (depending on the record length setting) vindows can be set independently (Zoom1, Zoom2) ×2 to 2.5 points/10 div (in zoom area) Auto Scroll ns Edge, Edge Qualified, State, Pulse Width, State Width, I ^C (optional), SPI (optional), UART (optional), CAN (optional), SENT (optional), PSI5 (optional), CXPI (optional) ord length 1.25 k Points, with)			
Trigger level setti Trigger level setti Trigger level acci Window Compar Display ⁵ Functions Waveform acquisition mode High Resolution mode Sampling modes Accumulation Roll mode Zoom function	A to B(N) 1 1 Dual Bus Se ing range CH uracy'1 CH ator Center/Wi 8.4-inch TFT cd Max. 12 bit (the equivalently by Real time, inter Select OFF, Int (waveform freq Accumulation t Enabled at 100 Two zooming w Zoom factor Scroll Search function	to 10° (Edge, Edge Qualified, State, Serial Bus) srial Bus only 41 to CH4 ±4 div from center of screen 41 to CH4 0.01 div (TV trigger: 0.1 div) 41 to CH4 ±(0.2 div + 10% of trigger level) idth can be set on individual Channels from CH1 to CH4 solor liquid crystal display, 1024 × 768 (XGA) bope, Average a resolution of the A/D converter can be improved r placing a bandwidth limit on the input signal) rpolation, repetitive sampling ensity (waveform frequency by brightness), or Color luency by color) time: 100 ms to 100 s, Infinite 0 ms/div to 500 s/div (depending on the record length setting) vindows can be set independently (Zoom1, Zoom2) ×2 to 2.5 points/10 div (in zoom area) Auto Scroll ns Edge, Edge Qualified, State, Pulse Width, State Width, PC (optional), CAN FD (optional), UART (optional), CAN (optional), CAN FD (optional), UART (optional), CAN (optional), CAN FD (optional), UART (optional), CAN (optional), CAN FD (optional), DXFI (optional), CAN (optional), CAN FD (optional), CAN (optional), C			
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	Up to 2 trend o	r histogram display of specified wave parameters
Computations (MATH)		elay, Moving Avg, IIR Lowpass, IIR Highpass), Integ, otary), user defined math (optional)
Computable no. of traces		2) (1 trace for 2 ch model)
Max. computable memory length	/M1, /M1S: 25	MPoints, /M2: 62.5 MPoints, /M3: 125 MPoints
Reference function		REF1/REF2) of saved waveform data can be displayed
Action-on-trigger	and analyzed	r, Print, Save, Mail
GO/NO-GO		Vave, Polygon, Parameter
		r, Print, Save, Mail
XY	Displays XY1, t	o XY2 and T-Y simultaneously
FFT	Number of points: 1.25 k, 12.5 k, 25 k, 125 k, 250 k Window functions: Rectangular, Hanning, Flat-Top FFT Types: PS (LS, RS, PSD, CS, TF, CH are available with /G2 or /G4 option)	
Histogram	Displays a histo	ogram of acquired waveforms
User-defined math ⁻⁶ (/G2 and /G4 options)	The following operators can be arbitrarily combined in equations: +, -, x, /, SIN, COS, TAN, ASIN, ACOS, ATAN, INTEG, DIFF, ABS, SQR LOG, EXP, LN, BIN, DELAY, P2 (power of 2), PH, DA, MEAN, HLBT, PWHH, PWLL, PWHL, PWLH, PWXX, FV, DUTYH, DUTYL, FILT1, FILT2 The maximum record length that can be computed is the same as the standard math functions.	
Power supply analysis (
Power analysis		wr2, selectable from 4 analysis types ween the voltage and current waveforms can be
	executed auton	
	Switching loss	Measurement of total loss and switching loss, power waveform display, Automatic measurement and statistical analysis of power analysis items (Wp, Wp+, Wp-, Abs.Wp, P, P+, P-, Abs.P, Z)
	Safety operation area	SOA analysis by X-Y display, using voltage as X axis, and current as Y axis is possible
	Harmonic analysis	Basic comparison is possible with following standard Harmonic emission standard IEC61000-3-2 edition 2.2, EN61000-3-2 (2000), IEC61000-4-7 edition 2
	Joule integral	Joule integral (l ² t) waveform display, automatic measurement and statistical analysis is possible
Power Measurement		asurement of power parameters for up to two pairs of rrent waveforms. Values can be statistically processed
	Measurement parameters	Urms, Unm, Udc, Urmn, Uac, U+pk, U-pk, Up-p, Irms, Imn, Idc, Irmn, Iac, I+pk, I-pk, Ip-p, P, S, Q, Z, λ , Wp, Wp+, Wp-, Abs.Wp, q, q+, q-, Abs.q, Avg Freq (voltage, current)
Common Features of Analysis result display		al Analysis Functions (/F1 to /F11 Options) nformation is displayed together with waveforms or in
maryoro result display	list form.	
	A threshold bus-specif automatica detected re	d value, time axis scale, voltage axis scale and other ic parameters such as a bit rate and recessive level are illy detected. Trigger conditions are set based on the soult and decoded information is displayed. of a bus signal needs to be specified in advance.)
Auto setup function	list form. A threshold bus-specif automatica detected re (The type of Search of a	ic parameters such as a bit rate and recessive level are ally detected. Trigger conditions are set based on the esult and decoded information is displayed.
Auto setup function Search function Analysis result saving	list form. A threshold bus-specif automatica detected re (The type of Search of a condition s	ic parameters such as a bit rate and recessive level are ully detected. Trigger conditions are set based on the soult and decoded information is displayed. of a bus signal needs to be specified in advance.) all waveforms for a position that matches a pattern or
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Auto setup function Search function Analysis result saving function I ² C Bus Signal Analysi Applicable bus Analyzable signals I ² C Trigger modes Analyzable no. of data List display items SPI Bus Signal Analys	list form. A threshold bus-specifi automatica detected ra (The type of Search of a condition s Analysis lis be also saw s Functions (/F2 ² C bus Bus tr Addre SM bus Comp CH1 to CH4, Lo Every Start, Ad Mode 300000 bytes n Analysis no., tir 2nd byte addre is Functions (/F2 3 wire, 4 w After asser	ic parameters such as a bit rate and recessive level are illy detected. Trigger conditions are set based on the soult and decoded information is displayed. of a bus signal needs to be specified in advance.) all waveforms for a position that matches a pattern or specified by data information. All waveforms for a position that matches a pattern or specified by data information. All waveforms for a position that matches a pattern or specified by data information. All data can be saved to CSV-format files. Trend data can ved for SENT signals. 2 and /F3 Options)'⁶ ansfer rate: 3.4 Mbit/s max. ass mode: 7 bit/10 bit lies with System Management Bus bogic input, or M1 to M2 dress & Data, Non-Ack, General Call, Start Byte, HS nax. ne from trigger position (Time (ms)), 1st byte address, ss, R/W, Data, Presence/absence of ACK, information 2 and /F3 Options)'⁶ ire tion of CS, compares data after arbitrary byte count
Auto setup function Search function Analysis result saving function I ² C Bus Signal Analysi Applicable bus Analyzable signals I ² C Trigger modes Analyzable no. of data List display items SPI Bus Signal Analys Trigger types	list form. A threshold bus-specifi automatica detected ra (The type of Search of a condition s Analysis lis be also saw s Functions (/F2 ² C bus Bus tr Addre SM bus Comp CH1 to CH4, Lo Every Start, Ad Mode 300000 bytes n Analysis no., tir 2nd byte addre is Functions (/F7 3 wire, 4 w After asser and trigger	ic parameters such as a bit rate and recessive level are illy detected. Trigger conditions are set based on the soult and decoded information is displayed. of a bus signal needs to be specified in advance.) all waveforms for a position that matches a pattern or specified by data information. All waveforms for a position that matches a pattern or specified by data information. All waveforms for a position that matches a pattern or specified by data information. All data can be saved to CSV-format files. Trend data can ved for SENT signals. 2 and /F3 Options)'⁶ ansker rate: 3.4 Mbit/s max. ass mode: 7 bit/10 bit lies with System Management Bus orgic input, or M1 to M2 dress & Data, Non-Ack, General Call, Start Byte, HS nax. ne from trigger position (Time (ms)), 1st byte address, ss, R/W, Data, Presence/absence of ACK, information 2 and /F3 Options)'⁶ ire tion of CS, compares data after arbitrary byte count s.
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Analysis result display Auto setup function Search function Analysis result saving function I ² C Bus Signal Analysi Applicable bus Analyzable signals I ² C Trigger modes Analyzable no. of data List display items SPI Bus Signal Analys Trigger types Analyzable signals Byte order Field definition Analyzable no. of data	list form. A threshold bus-specifi automatica detected ra (The type of Search of a condition s Analysis lis be also saw s Functions (/F2 ² C bus Bus tr Addre SM bus Comp CH1 to CH4, Lo Every Start, Ad Mode 300000 bytes n Analysis no., tir 2nd byte addre is Functions (/F7 3 wire, 4 w After asser and trigger CH1 to CH	ic parameters such as a bit rate and recessive level are illy detected. Trigger conditions are set based on the soult and decoded information is displayed. all waveforms for a position that matches a pattern or specified by data information. all waveforms for a position that matches a pattern or specified by data information. at data can be saved to CSV-format files. Trend data can ved for SENT signals. 2 and /F3 Options)'⁶ ansfer rate: 3.4 Mbit/s max. ass mode: 7 bit/10 bit lies with System Management Bus bogic input, or M1 to M2 dress & Data, Non-Ack, General Call, Start Byte, HS nax. ne from trigger position (Time (ms)),1st byte address, ss, R/W, Data, Presence/absence of ACK, information 2 and /F3 Options)'⁶ ire tion of CS, compares data after arbitrary byte count s. 4, Logic input, M1 to M2 4 to 32 bits), Enabled bit range
Auto setup function Search function Analysis result saving function IPC Bus Signal Analysi Applicable bus Analyzable signals IPC Trigger modes Analyzable no. of data List display items SPI Bus Signal Analys Trigger types Analyzable signals Byte order Field definition	list form. A threshold bus-specifi automatica detected re (The type of Search of a condition s Analysis lis be also saw s Functions (/F 2 ² C bus Bus tr Addre SM bus Comp CH1 to CH4, Lo Every Start, Ad Mode 300000 bytes n Analysis no., tir 2nd byte addre is Functions (/F 2 3 wire, 4 w After asser and trigger CH1 to CH MSB, LSB Field size (300000 bytes)	ic parameters such as a bit rate and recessive level are illy detected. Trigger conditions are set based on the soult and decoded information is displayed. all waveforms for a position that matches a pattern or specified by data information. all waveforms for a position that matches a pattern or specified by data information. all waveforms for a position that matches a pattern or specified by data information. all waveforms for a position that matches a pattern or specified by data information. all waveforms for a position that matches a pattern or specified by data information. all waveforms for a position that matches a pattern or specified by data information. and /F3 Options)'⁶ ansfer rate: 3.4 Mbit/s max. ss mode: 7 bit/10 bit lies with System Management Bus bogic input, or M1 to M2 dress & Data, Non-Ack, General Call, Start Byte, HS nax. ne from trigger position (Time (ms)),1st byte address, ss, R/W, Data, Presence/absence of ACK, information 2 and /F3 Options)'⁶ ire tion of CS, compares data after arbitrary byte count s. 4, Logic input, M1 to M2 4 to 32 bits), Enabled bit range

Analyzable signal	s	CH1 to CH4, logic input, or M1 to M2	
Data format		Select a data format from the following 8 bit (Non Parity), 7 bit Data + Parity, 8 bit + Parity	
UART Trigger modes		Every Data, Data, Error (Framing, Parity)	
Analyzable no. of frames		300000 frames max.	
List display items		Analysis no., time from trigger position (Time(ms)), Data (Bin, Hex display, ASCII display, and Information.	
CAN Bus Signal	Analysis F	Functions (/F4, /F6, /F7 and /F8 Options) ¹⁶	
Applicable bus		CAN version 2.0A/B, Hi-Speed CAN (ISO11898), Low-Speed CAN (ISO11519-2)	
Analyzable signal	s	CH1 to CH4, M1 to M2	
Bit rate		1 Mbps, 500 kbps, 250 kbps, 125 kbps, 83.3 kbps, 33.3 kbps User Define (an arbitrary bit rate from 10 kbps to 1 Mbps with resolution of 100 bps)	
CAN bus Trigger	modes	SOF, ID/Data, ID OR, Error (Error Frame, Stuff, CRC), Message and signal (enabled when loading physical values/symbol definitions)	
Analyzable no. of	frames	100000 frames max.	
List display items	;	Analysis no., time from trigger position (Time (ms)), Frame type, IDLC, Data, CRC, presence/absence of Ack, information	
CAN ED Bue Sig	nal Analyr	his Eurotions (/E7 and /E9 Options) ¹⁶	
_	nal Analys	sis Functions (/F7 and /F8 Options)'6	
Applicable bus		CAN FD (ISO 11898-1:2015 and non-ISO)	
Applicable bus Analyzable signal	s	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2	
Applicable bus	s	CAN FD (ISO 11898-1:2015 and non-ISO)	
Applicable bus Analyzable signal	s	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 n 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate	
Applicable bus Analyzable signal Bit rate	s Arbitration Data	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 n 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to10Mbps with resolution of 100 bps)	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg	Arbitration Data ger modes	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 n 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi	Arbitration Data ger modes on	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis	
Applicable bus Analyzable signal	Arbitration Data ger modes on frames	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to 10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi Analyzable no. of List display items	s Arbitration Data ger modes on frames	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results 50000 frames max. Analysis no., time from trigger position (Time (ms)), Frame type, ID	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi Analyzable no. of List display items Auxiliary analysis	s Arbitration Data ger modes on frames	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results 50000 frames max. Analysis no., time from trigger position (Time (ms)), Frame type, ID DLC, Data, CRC, presence/absence of Ack, information	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi Analyzable no. of List display items Auxiliary analysis LIN Bus Signal A	s Arbitration Data ger modes on frames	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to 10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results 50000 frames max. Analysis no., time from trigger position (Time (ms)), Frame type, ID DLC, Data, CRC, presence/absence of Ack, information Field jump functions	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi Analyzable no. of List display items Auxiliary analysis LIN Bus Signal A Applicable bus	s Arbitration Data ger modes on frames functions Analysis Fu	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to 10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results 50000 frames max. Analysis no., time from trigger position (Time (ms)), Frame type, ID DLC, Data, CRC, presence/absence of Ack, information Field jump functions unctions (/F4, /F6, /F7 and /F8 Options)*	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi Analyzable no. of List display items Auxiliary analysis LIN Bus Signal A Applicable bus	s Arbitration Data ger modes on frames functions Analysis Fu	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to 10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results 50000 frames max. Analysis no., time from trigger position (Time (ms)), Frame type, ID DLC, Data, CRC, presence/absence of Ack, information Field jump functions unctions (/F4, /F6, /F7 and /F8 Options)*6 LIN Rev. 1.3, 2.0, 2.1	
Applicable bus Analyzable signal Bit rate CAN FD bus trigg Auto setup functi Analyzable no. of List display items Auxiliary analysis LIN Bus Signal A Applicable bus Analyzable signal	s Arbitration Data ger modes on frames functions Analysis Fi	CAN FD (ISO 11898-1:2015 and non-ISO) CH1 to CH4, M1 to M2 1 Mbps, 500 kbps, 250 kbps, User Define (an arbitrary bit rate from 20 kbps to 1 Mbps with resolution of 100 bps) 8 Mbps, 5 Mbps, 4 Mbps, 2 Mbps, 1 Mbps, 500 kbps, User Define (an arbitrary bit rate from 250kbps to10Mbps with resolution of 100 bps) SOF, ID, ID OR, Error Frame, Message (enabled when loading physical values/symbol definitions) Auto setting of bit rate, recessive Level, threshold value, time axis scale, voltage axis scale, and display of analysis results 50000 frames max. Analysis no., time from trigger position (Time (ms)), Frame type, ID DLC, Data, CRC, presence/absence of Ack, information Field jump functions unctions (/F4, /F6, /F7 and /F8 Options)*6 LIN Rev. 1.3, 2.0, 2.1 CH1 to CH4, M1 to M2 19.2 kbps, 9.6 kbps, 4.8 kbps, 2.4 kbps, 1.2 kbps User Define (an arbitrary bit rate from 1 kbps to 20 kbps with	

Analyzable no. of frames	100000 frames max.
List display items	Analysis no., time from trigger position (Time (ms)), ID, ID-Field, Data, CheckSum, information
Auxiliary analysis functions	Field jump functions

CXPI Bus Signal Analysis Functions (/F4, /F6, /F7 and /F8 Options)'6 '8

Applicable bus	CXPI JASO D 015-3:2015
Analyzable signals	CH1 to CH4, M1 to M2
Bit rate	19.2 kbps, 9.6 kbps, 4.8 kbps, User Define (an arbitrary bit rate from 4 kbps to 50 kbps with resolution of 10 bps)
Analyzable no. of frames	10000 frames max.
List display items	Analysis no., time from trigger position (Time (ms)), ID, DLC, W/S, CT, Data, CRC, error information, Wakeup/Sleep

FlexRay Bus Signal Analysis Functions (/F5, /F6 and /F8 Options)'6

Applicable bus	FlexRay Protocol Version 2.1		
Analyzable signals	CH1 to CH4, M1 to M2 10 Mbps, 5 Mbps, 2.5 Mbps		
Bit rate			
FlexRay bus Trigger modes	Frame Start, Error, ID/Data, ID OR		
Analyzable no. of frames	5000 frames max.		
List display items	Analysis no., time from trigger position (Time(ms)), Segment (Static or Dynamic), Indicator, FrameID, PayLoad length, Cycle count, Data, Information		

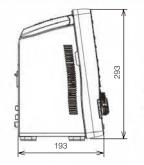
SENT Signal Analysis Functions (/F9 and /F11 Options)'6

Applicable	standard	J2716 JAN2010 and older		
Analyzable signals		CH1 to CH4, logic input, or M1 to M2		
Clock period	bd	1 us to 100 us with resolution of 0.01 us		
Data type	Fast channel	Nibbles/User Defined		
	Slow channel	Short/Enhanced		
SENT trigg	er modes	Start of fast channel		
Analyzable	no. of frames	100000 frames max.		
List display	/ items			
	Fast channel	Analysis no., time from trigger position (Time (ms)), Sync/Cal period,		

Analysis no., time from trigger position (Time (ms)), Sync/Cal period, Tick, Status & Comm, Data, CRC, frame length, information

	alysis no., time from trigger position (Time (ms)), ID, Data, CRC prmation
Auxiliary analysis functions Tree	nd functions (up to 4 trend waveforms)
PSI5 Signal Analysis Functions	s (/F10 and /F11 Options) ^{*6}
Applicable standard	PSI5 Airbag (V2.2) 7
Analyzable signals	CH1 to CH4, M1 to M2
	189 kbps, 125 kbps, User Define (10.0 k to 1000.0 kbps, with resolution of 0.1 kbps)
PSI5 Trigger modes	Sync, Start Bit, Data
Analyzable no. of frames	400000 frames max.
	Analysis no., time from trigger position, time from Sync, slot no., Data, Parity/CRC, Information
Auxliary analysis function	Trend functions (up to 4 trend waveforms)
GP-IB (/C1 and /C11 Options)	
Electromechanical specifications	Conforms to IEEE std. 488-1978 (JIS C 1901-1987)
Protocol	Conforms to IEEE std. 488.2-1992
Auxiliary Input	
Rear panel I/O signal	External trigger input (DLM20x2: front panel), external trigger output, GO-NOGO output, video output
Probe interface terminal (front pa	
Probe power terminal (rear panel	
Internal Storage (Standerd mo	
Capacity Standard mod	el: 300 MB, /C9 option: 7.2 GB
Built-in Printer (/B5 Option)	
	monochrome, thermal
,	
USB Peripheral Connection Te	rminal
Connector USB type A co	onnector × 2 (front panel × 1, rear panel × 1)
Electromechanical specifications	USB 2.0 compliant
	USB 2.0 compliant Low Speed, Full Speed, High Speed
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage	Low Speed, Full Speed, High Speed lass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOK	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage	Low Speed, Full Speed, High Speed lass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices' Please contac (OGAWA sales office for model names of verified devices
Electromechanical specifications Supported transfer standards Supported USB Printer CI devices Mass Storage your local YOM USB-PC Connection Terminal Connector	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac COGAWA sales office for model names of verified devices USB type B connector × 1
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOF USB-PC Connection Terminal Connector Electromechanical specifications	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac COGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOF USB-PC Connection Terminal Connector Electromechanical specifications Supported transfer standards	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac COGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant High Speed, Full Speed
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOF USB-PC Connection Terminal Connector Electromechanical specifications	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac COGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOF USB-PC Connection Terminal Connector Electromechanical specifications Supported transfer standards	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac COGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant High Speed, Full Speed USBTMC-USB488 (USB Test and Measurement Class Ver. 1.0)
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOP USB-PC Connection Terminal Connector Electromechanical specifications Supported transfer standards Supported class Ethernet (/C10 and /C11 Option	Low Speed, Full Speed, High Speed ass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices* Please contac COGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant High Speed, Full Speed USBTMC-USB488 (USB Test and Measurement Class Ver. 1.0)
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOP USB-PC Connection Terminal Connector Electromechanical specifications Supported transfer standards Supported class Ethernet (/C10 and /C11 Option Connector RJ-45 cd	Low Speed, Full Speed, High Speed lass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices' Please contac (OGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant High Speed, Full Speed USBTMC-USB488 (USB Test and Measurement Class Ver. 1.0) ns)
Electromechanical specifications Supported transfer standards Supported USB Printer Cl devices Mass Storage your local YOP USB-PC Connection Terminal Connector Electromechanical specifications Supported transfer standards Supported class Ethernet (/C10 and /C11 Option Connector RJ-45 cc Transmission methods Ethernet	Low Speed, Full Speed, High Speed lass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices" Please contact (OGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant High Speed, Full Speed USBTMC-USB488 (USB Test and Measurement Class Ver. 1.0) ns) onnector × 1 (1000BASE-T/100BASE-TX/10BASE-T)
Electromechanical specifications Supported transfer standards Supported transfer standards USB Printer Cl devices Mass Storage your local YOK USB-PC Connection Terminal Connector Electromechanical specifications Supported transfer standards Supported class Ethernet (/C10 and /C11 Option Connector RJ-45 cc Transmission methods Ethernet Supported services Server: f	Low Speed, Full Speed, High Speed lass Ver. 1.0 compliant EPSON/HP (PCL) inkjet printers USB Class Ver. 1.1 compliant mass storage devices" Please contact (OGAWA sales office for model names of verified devices USB type B connector × 1 s USB 2.0 compliant High Speed, Full Speed USBTMC-USB488 (USB Test and Measurement Class Ver. 1.0) ns) onnector × 1 (1000BASE-T/100BASE-TX/10BASE-T)
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External Dimensions





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Model	Suffix cod	e	Description
710105	Cullix COU		Digital Oscilloscope DLM2022 2ch, 200MHz
710110 ⁻¹			Mixed Signal Oscilloscope DLM2024 4ch, 200MHz
710115			Digital Oscilloscope DLM2032 2ch, 350MHz
710120 ⁻¹			Mixed Signal Oscilloscope DLM2034 4ch, 350MHz
710125			Digital Oscilloscope DLM2052 2ch, 500MHz
710123			Mixed Signal Oscilloscope DLM2052 4ch, 500MHz
Power	-D		UL/CSA standard
cord	-6 -F		VDE standard
00.0	-r -Q		BS standard
	-Q -R		AS standard
	-R -H		GB standard
	-n -N		NBR standard
Language			English Menu and Panel
	-HC		Chinese Menu and Panel
	-HK		Korean Menu and Panel
	-HG		German Menu and Panel
	-HF		French Menu and Panel
	-HL		Italian Menu and Panel
	-HS		Spanish Menu and Panel
Option	/LN		No switchable logic input (4 ch model only)
	/B5		Built-in printer (112 mm)
	/M1 ¹²		Memory expansion option (4 ch model only)
	(standard)		During continuous measurement: 6.25 Mpoints; Single mode 25 Mpoints (when interleave mode ON: 62.5 Mpoints)
			Memory expansion option (4 ch model only)
	/M2 ¹²		During continuous measurement: 12.5 Mpoints; Single mode
	/		62.5 Mpoints (when interleave mode ON: 125 Mpoints)
			Memory expansion option (4 ch model only)
	/M3 ^{°2}		During continuous measurement: 25 Mpoints; Single mode
			125 Mpoints (when interleave mode ON: 250 Mpoints)
	/M1S		Memory expansion option (2 ch model only)
	(standard)		During continuous measurement: 6.25 Mpoints; Single
			mode: 25 Mpoints (when interleave mode ON: 62.5 Mpoints
	/P2"3		Probe power for 2 ch models
	/P4'3		Probe power for 4 ch models
	/C1 ^{*4}		GP-IB Interface
	/C10 ⁻⁴		Ethernet Interface
	/C11'4		GP-IB + Ethernet Interface
	/C9		Internal storage (7.2 GB)
	/G2*5		User defined math (4 ch model only)
	/G3*5		Power supply analysis function (4 ch model only)
	/G4 ^{∙₅}		Power supply analysis function (includes /G2)
			(4 ch model only)
	/F1'6		UART trigger and analysis (4 ch model only)
	/F2'6		I ² C + SPI trigger and analysis (4 ch model only)
	/F3'6		UART + I ² C + SPI trigger and analysis (4 ch model only)
	/F4	*7	CAN + LIN trigger and analysis + CXPI analysis ¹³
			(4 ch model only)
	/F5	7	FlexRay trigger and analysis (4 ch model only)
	/F6	*7	CAN + LIN + FlexRay trigger and analysis + CXPI analysis ¹
			(4 ch model only)
	/F7	*7	CAN + CAN FD + LIN trigger and analysis + CXPI analysis ¹
			(4 ch model only) CAN + CAN FD + LIN + FlexRay trigger and analysis +
	/F8	*7	CAN + CAN FD + LIN + FlexRay trigger and analysis + CXPI analysis ¹³ (4 ch model only)
	L	9'8	SENT analysis (4 ch model only)
		-9 -	
	· · ·	-10° -11'8	PSI5 analysis (4 ch model only)
			SENT+PSI5 analysis (4 ch model only)
		/EX22"9	Attach two 701946 probes (For 2ch, 200 MHz models)
	L	/EX24'9	Attach four 701946 probes (For 4ch, 200 MHz models)
	L	/EX52 ^{*10}	
		/EX54 ^{*10}	Attach four 701946 probes (For 4ch, 350/500 MHz models)

Model and Suffix Code

Standard Main Unit Accessories Power cord (1 set), Passive probe⁻¹¹, Protective front cover (1 set), Soft carrying case for probes (1 set), Printer roll paper (for //B5 option) 1 roll, User's manuals¹⁻²² ¹¹: Logic probes sold separately. Please order the model 701988/701989 accessory logic probes separately. ¹²: One of these must be selected.

Cher of these must be selected.
 Specify this option when using current probes or other differential probes that don't support probe interface.
 to '8: Only one from the each note can be selected at a time.
 The 701389 probes are not included when this option is selected.
 The 701399 probes are not included when this option is selected.
 Tho 701307 r10105 and 71011010 or 701999 (for 710115, 70120, 710125 and 710130), per number of channels. When either /EX22 or/EX24 option is selected, no 701938 is included. When either /EX52 or /EX54 option is selected, no 701938 is included.
 Cheration guide as the printed material, and User's manual as CD-ROM are included.
 the trioser function is required, please contract our sales representative.

13: If the trigger function is required, please contact our sales representative

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Additional Option License for DLM2000'1

Model	Suffix code	Description	
709810	-G2	User defined math (4 ch model only)	
	-G3	Power supply analysis function (4 ch model only)	
	-G4	Power supply analysis function (includes G2) (4 ch model only)	
	-F1	UART trigger and analysis (4 ch model only)	
	-F2	I ² C + SPI trigger and analysis (4 ch model only)	
	-F3	UART + I ² C + SPI trigger and analysis (4 ch model only)	
	-F4	CAN + LIN trigger and analysis + CXPI analysis ² (4 ch model only)	
	-F5	FlexRay trigger and analysis (4 ch model only)	
	-F6	CAN + LIN + FlexRay trigger and analysis + CXPI analysis ² (4 ch model only)	
	-F7	CAN + CAN FD + LIN trigger and analysis + CXPI analysis ² (4 ch model only)	
	-F8	CAN + CAN FD + LIN + FlexRay trigger and analysis + CXPI analysis ² (4 ch model only)	
	-F9	SENT analysis (4 ch model only)	
	-10	PSI5 analysis (4 ch model only)	
	-11	SENT+PSI5 analysis (4 ch model only)	
	-X1	F4 -> F7/F6 -> F8 (add CAN FD)	

*1: Separately sold license product (customer-installable). *2: If the trigger function is required, please contact our sales representative

Accessory Models

Name	Model	Specification
Logic probe (PBL100)	701988	1 MΩ input resistance, toggle frequency of 100 MHz
Logic probe (PBL250)	701989	100 kΩ input resistance, toggle frequency of 250 MHz
Passive probe ^{*1}	701938	10 MΩ (10:1), 200 MHz, 1.5 m
Passive probe ^{*1}	701939	10 MΩ (10:1), 500 MHz, 1.3 m
Miniature passive probe	701946	10 MΩ (10:1), 500 MHz, 1.3 m
Passive probe (wide temperature range)	702906	10 MΩ (10:1), 200 MHz, 2.5 m -40°C to +85°C
FET probe ¹¹	700939	DC to 900 MHz bandwidth, 2.5 MΩ/1.8 pF
100:1 voltage probe	701944	DC to 400 MHz bandwidth, 1.2 m, 1000 Vrms
100:1 voltage probe	701945	DC to 250 MHz bandwidth, 3 m, 1000 Vrms
Differential probe	701920	DC to 500 MHz bandwidth, max. ±12 V
Differential probe	701921	DC to 100 MHz bandwidth, max. ±700 V
Differential probe	701922	DC to 200 MHz bandwidth, max. ±20 V
Differential probe (PBDH1000)	701924	DC to 1 GHz bandwidth, 1M Ω , max. ±25 V
Differential probe	701926	DC to 50 MHz bandwidth, 5000 Vrms/7000 Vpeak
Differential probe (PBDH0150)	701927	DC to 150 MHz bandwidth, max. ±1400 V
Differential probe	700924	DC to 100 MHz bandwidth, max. ±1400 V
Differential probe	700925	DC to 15 MHz bandwidth, max. ±500 V
Current probe ²	701917	DC to 50 MHz bandwidth, 5 Arms, High-sensitivity
Current probe ²	701918	DC to 120 MHz bandwidth, 5 Arms, High-sensitivity
Current probe (PBC050) ²	701929	DC to 50 MHz bandwidth, 30 Arms
Current probe (PBC100)"2	701928	DC to 100 MHz bandwidth, 30 Arms
Current probe ²	701930	DC to 10 MHz bandwidth, 150 Arms
Current probe ²	701931	DC to 2 MHz bandwidth, 500 Arms
Deskew correction signal source	701936	For deskew correction
Printer roll paper	B9988AE	Lot size is 10 rolls, 10 meters each
Probe stand	701919	Round base, 1 arm
Soft carrying case	701964	With 3 pockets for storage

*1: Please refer to the Probes and Accessories brochure for probe adapters. *2: Current probes' maximum input current may be limited by the number of probes used at a time.

Accessory Software

Name	Model	Specification	6
MATLAB tool kit	701991	MATLAB plug-in	
Xviewer	701992-SP01	Standard version	
	701992-GP01	With MATH functions	

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 Friendy Product Design Guidelines and Product Design Assessment Criteria.

This is a Class A instrument based on Emission standards EN61326-1 and EN55011, and is designed for an industrial environment. Operation of this equipment in a residential area may cause radio interference, in which case users will be responsible for any interference which they cause.



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



YOKOGAWA TEST & MEASUREMENT CORPORATION

Global Sales Dept. /Phone: +81-422-52-6237 E-mail: tm@cs.jp.yokogawa.com Facsimile: +81-422-52-6462

YOKOGAWA CORPORATION OF AMERICA YOKOGAWA EUROPE B.V. YOKOGAWA SHANGHAI TRADING CO., LTD. YOKOGAWA ELECTRIC KOREA CO., LTD. YOKOGAWA ENGINEERING ASIA PTE. LTD. YOKOGAWA INDIA LTD. YOKOGAWA ELECTRIC CIS LTD. YOKOGAWA AMERICA DO SUL LTDA. YOKOGAWA MIDDLE EAST & AFRICA B.S.C(c) Phone: +973-17-358100

Phone: +31-88-4641000 Phone: +86-21-6239-6363 Phone: +82-2-2628-3810 Phone: +65-6241-9933 Phone: +91-80-4158-6396 Phone: +7-495-737-78-68 Phone: +55-11-5681-2400

E-mail: tmi@us.yokogawa.com E-mail: tmi@nl.yokogawa.com E-mail: tech@ysh.com.cn E-mail: TMI@kr.yokogawa.com E-mail: TMI@sg.yokogawa.com E-mail: tmi@in.yokogawa.com E-mail: info@ru.yokogawa.com

Facsimile: +86-21-6880-4987 Facsimile: +82-2-2628-3899 Facsimile: +65-6241-9919 Facsimile: +91-80-2852-1442 Facsimile: +7-495-737-78-69

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E-mail: help.ymatmi@bh.yokogawa.com Facsimile: +973-17-336100

http://tmi.yokogawa.com/