



REAL/DIGITAL STORAGE OSCILLOSCOPE

**CDQ620/630** CE

**CLASSIC**

**MCP**  
lab electronics

**Features**

20MHz/30MHz dual channel  
20 MS/s sampling rate  
Record length: 1K / CH + 1K x 2 (Reference Memories)  
High sensitivity: 1mV/div  
10 times sweep magnification(DSO mode:Max 100 times)  
10s/div ultra low sweeping speed  
Preset triggering function, pre-trigger signal observation  
Two channels, two reference waveforms display simultaneous  
Measure and display single shot, non-period signals  
TV synchronization, X-Y mode  
Z-Axis input: CH1 signal output  
Built in RS232C interface  
**Analog, ultra low speed and storage oscilloscope, three in one**  
High performance with low price



Technical Data		CDQ620/630	
CRT	Type	6-inch rectangular with internal graticule 8x10div (1div=1cm)	
	Z-Axis input	Zin: $\approx 47k\Omega$ ; Vin: $\geq 5Vp-p$ ; BW: DC-2MHz; Max. input voltage: 300V	
Vertical	Illumination	Front panel control	
	Sensitivity	X1/X5 5mV-5V/div Real time: $\pm 3\%$ / 1mV-1V/div Real time: $\pm 5\%$	
	Vertical resolution	28 point/div	
	Bandwidth	X1/X5 Real time: DC (AC 10Hz) $\sim 20\&30MHz$ (-3dB)/ DC $\sim 7MHz$ (-3dB)	
	Rise time	X1/X5 Real time: $\leq 17.5ns$ (11.7ns CDQ630)/ Real time: $\leq 50ns$	
	Input impedance	$\approx 1M\Omega / 25PF$	
	Max input voltage	400V (DC + ACp-p)	
	Input coupling	AC, DC, GND	
Horizontal	Vertical operation mode	CH1, CH2, DUAL (ALT/CHOP) ADD, CH2 INV	
	Chopper Frequency	Approx. 250kHz	
	Sweep time	0.2 $\mu s$ -0.5s(DSO=10S) / div $\pm 3\%$ ; MAG: 100ns - 50ms(DSO=1s)/div $\pm 5\%$	
	Accuracy	$\pm 3\%$ , $\pm 5\%$ at x10MAG	
	Sweep Magnification	x10	
	Trigger mode	AUTO, NORM, TV-V, TV-H	
	Trg-level lock	$\checkmark$	
	Trigger source	CH1, CH2, ALT, LINE, EXT	
Trigger	Trigger coupling	AC: 20Hz-20/30MHz DC: 0-20/30MHz	
	Trigger slope	"+" or "-"	
	Pre-Trg point	div: 2, 5, 8	
	Sensitivity	20Hz-2MHz 0.5DIV TRIG-ALT: 2DIV EXT: 200mV	
		2MHz-20MHz 1.5DIV TRIG-ALT: 3DIV EXT: 800mV	
	Sensitivity	5mV-5V/div, $\pm 4\%$ ; 5mV-20V/div, $\pm 3\%$ (CDQ630)	
	X-axis bandwidth	DC-500KHz	
	Phase error	$\leq 3^\circ$ DC-50KHz	
Digital Storage	Storage Bandwidth	DC-8MHz (-3dB)	
	Sampling	Fmax=20 MS/s, A/D: 8-Bit, Sweep D/A: 10-Bit	
	Sensitivity	$\pm 3\% \pm 0.4mm$ (x5MAG); $\pm 5\% \pm 0.4mm$	
	Rise time	$\leq 100ns$ (x5MAG); $\leq 100ns$	
	Saved wave	MAG point	div: 2, 5, 8
		MAG rate	Max: 100
	Display Resolution	H: 100points/div; V: 28points/div	
	Memory Length/CH	Acquisition: 1024Byte; Reference: 1024Byte; Display: 1024Byte	
Sweep mode	AUTO, NORM, ROLL		
Communication	RS-232C, 19200Bit		
Output signal	CH1 signal output	$\checkmark$	
	Calibrator output	1KHz square wave, 2Vp-p $\pm 2\%$	
Power source	AC 110/220V $\pm 10\%$ , 50Hz/ 60Hz, $\approx 35W$		
Size/Weight	310(W) x 150(H) x 455(D)mm/ Approx. 8kg		
Accessories	One operation manual, one fuse, one power cable, two probes		

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