



CURSOR READOUT OSCILLOSCOPE

MCP
lab electronics

CQ620R/640R

Features

- 20MHz/40MHz Dual Channel
- Adjustable cursor function, easy to operate
- Visible coordinate measurement method
- High sensitivity: 1mV/div
- Expanded vertical sensitivity to 10V ~ 20V/div
- Encoder for sweep and vertical sensitivity switch
- 10 times sweep magnification
- ALT triggering function
- Z-Axis input, CH1 output
- Triggering level lock function, automatic synchronize function
- Frequency display directly



Technical Data		CQ620R	CQ640R	
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		
Vertical	Y-ATT Switch	Encoder		
	Sensitivity	X1/X5(12 steps)	$\pm 3\%$; 5mV-20V/div / $\pm 5\%$; 1mV-4V/div	
		X1	DC (AC 10Hz) - 20MHz(-3dB)	DC (AC 10Hz) - 40MHz(-3dB)
	Bandwidth	X5	DC (AC 10Hz) - 7MHz (-3dB)	
		Rise time	X1 / X5	$\leq 17.5ns / \leq 50ns$
	Input impedance	$\approx 1M\Omega / 25PF$		
	Max input voltage	400V (DC + ACp-p)		
	Input coupling	AC, DC, GND		
Vertical operation mode	CH1, CH2, DUAL (ALT/CHOP) ADD, CH2 INV			
Horizontal	Sweep time	0.2 μs -0.5s / div $\pm 3\%$; MAGx10: 20ns - 50ms / div $\pm 5\%$		
	Sweep time accuracy	$\pm 3\%$, $\pm 5\%$ at x10MAG (20nS-50nS/DIV uncalibrated)		
	Sweep magnification	10 times		
	Max sweep time	20nS/DIV		
	Linear	$\pm 5\%$, $\pm 10\%$ at x10MAG		
	Trigger	Trigger mode	AUTO, NORM, TV-V, TV-H	
Trg-level lock		<input checked="" type="checkbox"/>		
Trigger source		CH1, CH2, ALT, LINE, EXT		
Trigger coupling		AC		
Trigger slope		*+* or *-*		
Trigger sensitivity			20Hz-2MHz	2MHz-20MHz
		CH1, CH2	0.5DIV	1.5DIV
	ALT	2.0DIV	3.0DIV	
	EXT	200mV	800mV	
External trigger input	Input impedance: $1M\Omega \pm 3\%$, 25pF $\pm 5pF$ Max. input voltage: 300V (DC+ACpeak) at 1KHz			
X-Y	Sensitivity	5mV-5V/div, $\pm 4\%$		
	X-axis bandwidth	DC - 500KHz		
	Phase error	$\leq 3^\circ$ DC - 50KHz		
CRT readout	Panel setting display	CH1/CH2: Sensitivity, Sweep time, Trigger condition		
	Cursor measure	ΔV , ΔT , $1/\Delta T$; Unique coordinate measurement method		
	Cursor resolution	1/25 DIV		
	Effective cursor range	Vertical: $\pm 3div$; Horizontal: $\pm 4div$		
Output signal	CH1 signal output	<input checked="" type="checkbox"/>		
	Calibrator output	1KHz square wave, 2Vp-p $\pm 2\%$		
Build-in frequency counter	10Hz-20/40MHz; 5digits			
Power source	AC 110/220V $\pm 10\%$, 50Hz/60Hz, $\approx 35W$			
Size	310(W) x 150(H) x 455(D)mm			
Weight	Approx. 8kg			
Accessories	One operation manual, one fuse, one power cable, two probes			

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