

CQ5010C/5010D CE

Features

- .Electrical encoder switch to make high stability
- .10MHz single channel
- .TV synchronizing, X-Y operating
- .Easy to operate
- .High performance, sensitive 5mV/div
- .New novel appearance



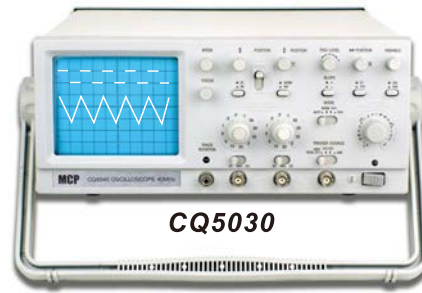
CQ5010C



CQ5010D

Technical Data		CQ5010C/CQ5010D
CRT	Type	3" round
	Display area	8 × 10div (1div=6mm)
	Potential	1.3kV
	Lighting color	Green
Vertical System	Sensitivity	5mV/div~5V/div ±3%
	Width of band (-3dB)	DC: 0~10MHz AC: 10Hz~10MHz
	Input impedance	1MΩ ±3% 30pF ±5pF
	Input coupling	DC, GND, AC
	Max. input voltage	400V (DC + ACpeak)
	Trimming ratio	2.5 : 1
Horizontal system	Sweep time	0.1s/div~0.1 μs/div ±3%
	Trimming ratio	2.5 : 1
Trigger system	Mode	AUTO, NORM, TV
	Source	INT, LINE, EXT
	Polarity	"+" or "-"
	Trigger sensitivity	INT: 1div, EXT: 3div, TV: 2div
	External trigger input	Input impedance: 1MΩ ±3% 25pF ±5pF Max. input voltage: 160V (DC+ACpeak)
X-Y operation	Sensitivity	X: 0.5V/div Y: 5mV/div~5V/div
	Width of band (-3dB)	DC: 0-1MHz AC: 10Hz - 1MHz
	Phase difference	≤3° (DC ~ 50kHz)
Calibration	Source	1kHz ±2% 0.5Vp-p ±2% square wave
Power source		110~127 VAC ±10%, 220~240VAC ±10% 50Hz ±2Hz, 60Hz ±2Hz
Dimensions (W × H × D)		225 × 91 × 290mm, 140 × 196 × 290mm
Weight		3kg
Other	Accessories	One operation manual, one fuse, one power cable, one probe

CQ5020/5030

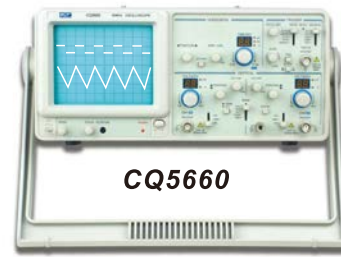


Features

- .High sensitivity 1mV/div
- .Wide vertical range 20V/div
- .20MHz/30MHz dual channel
- .TV synchronization
- .Z axis input
- .Vertical mode triggering
- .Ch1 output

Technical Data		CQ5020/CQ5030			
CRT	Type	6" rectangle, internal graticule, 0%, 10%, 90% and 100% marks			
	Display area	8 × 10div (1div=10mm)			
	Accelerating voltage	1.9kV(CQ5020) 2kV (CQ5030)			
	Intensity and focusing	Continuously adjustable at front panel			
	Trace rotation	Adjusted at the front panel			
Vertical System	Sensitivity and accuracy	5mV/div~20V/div ±3% 1mV/div~2mV/div ±5% 12 calibration steps in 1-2-5 sequence, ×5 MAG only CH1			
	Trimming ratio	≥2.5:1			
	Width of band (-3dB)	DC(AC 10Hz) ~20MHz (CQ5020)/30MHz (CQ5030)			
	Rise time	≤ 17.5ns (CQ5020) ≤12ns (CQ5030)			
	Input impedance	Approx. 1MΩ ±3% 30pF±5pF			
	Input coupling	DC, GND, AC			
	Max. input voltage	400V (DC + ACpeak) at 1kHz or less			
Horizontal system	Vertical mode	CH1, CH2, DUAL (CHOP, ALT), ADD, CH2 inverse			
	CH1 signal output	25mV/div 50Ω 20Hz~10MHz(-3dB)			
	Sweep time	0.2 μs/div~0.2s/div 19steps in 1-2-5 sequence			
	Sweep accuracy	±3%, ±5% at ×10MAG			
	Trimming ratio	≥2.5:1			
Trigger system	Sweep magnification	×10MAG			
	Max sweep time	20ns/div			
	Mode	AUTO, NORM, TV			
	Source	VERT-MODE, CH1, EXT, LINE			
	Coupling	AC			
X-Y operation	Polarity	"+" or "-"			
	Trigger sensitivity		10Hz~10MHz	10MHz~20MHz	20MHz~30MHz
		INT	0.5div	1.5div	1.5div
		EXT	0.2	0.8	0.2
			TV sync pulse 1 div or 1V(EXT)		
Axis Z	External trigger input	Input impedance: 1MΩ ±3% 25pF±5pF Max. input voltage: 400V			
	Input	X-axis: CH1, Y-axis: CH2			
	Sensitivity & accuracy	5mV/div~20V/div ±3%, 1mV/div~2mV/div ±5%			
	Width of band (-3dB)	Axis X: CQ5020: DC ~ 500kHz CQ5030: DC ~ 1MHz			
	Phase difference	≤3° or less from DC to 50kHz			
Calibration	Sensitivity	5V			
	Polarity	Negative going input increase intensity			
	Input impedance	20kΩ ~30kΩ			
	Usable frequency range	DC-2MHz			
	Max input voltage	30V (DC + AC peak)			
Power source	Signal				
Dimensions (W × H × D)	1kHz 0.5Vp-p square wave				
Weight	110~127 VAC±10%, 220~240VAC±10%, 50Hz±2Hz / 60Hz±2Hz				
Other	Accessories				
	316mm × 132mm × 410mm				
	7.8kg				
	One operation manual, one fuse, one power cable, two probes				

CQ5640/CQ5660



Features

- . Digital sweep and vert. selection
- . Surface mounting technology
- . TV synchronization
- . CH1 output
- . Triggering level lock
- . ALT triggering function
- . Z axis input

Technical Data		CQ5640/CQ5660			
CRT	Type	6" rectangle, internal graticule, 0%, 10%, 90% and 100% marks			
	Display area	8×10DIV (DIV=10mm)			
	Accelerating voltage	12kV(CQ5640/CQ5660)			
	Intensity and focusing	Continuously adjustable at front panel			
	Trace rotation	Adjusted at the front panel			
	Sensitivity and accuracy	1mV / DIV~5V / DIV ±3% 12 calibration steps in 1-2-5 sequence			
	Trimming ratio	≥2.5:1			
Vertical system	Width of band (-3dB)	DC(AC 10Hz) ~40MHz (CQ5640) DC(AC 10Hz) ~60MHz (CQ5660)			
	Rise time	≤9.5ns(CQ5640) ≤5.83ns(CQ5660)			
	Input impedance	1MΩ ±3% 25pF ±5pF			
	Input coupling	DC, GND, AC			
	Max. input voltage	400V (DC + ACpeak)			
	Vertical mode	CH1, CH2, DUAL (CHOP, ALT) ADD, CH2 inverse			
	Horizontal system	Sweep time	0.1us~0.1s / DIV (CQ5640/CQ5660)		
Sweep accuracy		±3%, ±5% at ×10MAG (20ns~50ns/DIV uncalibrated)			
Trimming ratio		≥2.5:1			
Sweep magnification		×10MAG			
Max sweep time		10ns/DIV(CQ5640/CQ5660)			
Trigger system	Mode	SINGLE, AUTO, NORM, TV-V, TH-H			
	Source	ALT, CH1, CH2, EXT, LINE			
	Polarity	"+" or "-"			
	Trigger sensitivity		20Hz~2MHz	2MHz~20MHz	20MHz~60MHz
		CH1,CH2	0.5DIV	1.5DIV	2DIV
ALT		2 DIV	3 DIV	3DIV	
EXT	0.2 DIV	0.8 DIV	0.8 DIV		
External trigger input		Input impedance: 1MΩ ±3% 25pF ±5pF Max. input voltage: 300V (DC+ACpeak) at 1kHz			
Frequency counter	Display	6 digits LED			
	Accuracy	1Hz(0~1MHz), 10Hz (1MHz~10MHz), 100Hz (10MHz~60MHz)			
	Sensitivity	Same as trigger system			
X-Y operation	Sensitivity and accuracy	5mV~5V/DIV, ±5% 10 calibration steps 1-2-5 sequence			
	Width of band (-3dB)	DC (AC 10Hz) ~500kHz			
	Phase difference	≤3° or less from DC to 50kHz			
Axis Z	Sensitivity	5Vp-p			
	Polarity	Negative going input increase intensity			
	Input impedance	47kΩ			
	Usable frequency range	DC~2MHz			
Max. input voltage	30V (DC+AC peak) at 1kHz				
Calibration	Voltage: 2Vp-p±2%, Frequency: 1KHz±2%, Square wave				
Power source	110~127 VAC±10%, 220~240VAC±10%, 50Hz±2Hz / 60Hz±2Hz				
Dimensions(W×H×D)	316mm × 132mm × 410mm				
Weight	7.8kg				
Accessories	One operation manual, one fuse, one power cable, two probes				