

MSO Series

Mixed LA-Oscilloscope

owon[®]
+ Meet your best need

1. 2 in 1(DSO+LA)
2. 8 inch LCD color display
3. Support USB for data transmission to PC
4. USB Flash Disk Storage
5. 20 Automatic measurements
6. Max.2M record length
7. Slope trigger and pulse trigger added

Application:
Design and Debug
Circuit function test
Identified signals logic information
Mixed signal circuit test
Education & Training

Accessories

The receipt of accessories should be taken as final



Probe



Power cord



USB



CD-Rom



Logic analyzer module



Probe adjust



Manual



Battery(optional)



bag(optional)

Package



Weight: 4.5kg

Color box dimension:
41cm(L)×28.5cm(H)×18.5cm(W)

1Pcs in carton: 43cm(L)×32cm(H)×21cm(W) 4.5kg
2Pcs in carton: 47cm(L)×44cm(H)×32cm(W) 8kg
3Pcs in carton: 60cm(L)×45cm(H)×33cm(W) 13kg
4Pcs in carton: 75cm(L)×43cm(H)×31cm(W) 16.5kg



FC CE MC

Performance characteristics

Model	MSO5022S	MSO7102T	MSO7102TD <small>NEW!</small>	MSO8102T <small>NEW!</small>	MSO8202T <small>NEW!</small>
Bandwidth	25MHz	100MHz		100MHz	200MHz
Sample rate(real time)	100MS/s	1GS/s(500MS/s for dual channels)		2GS/s(1G/s for dual channels)	
Display	7.8" color LCD, STN display	8" color TFT LCD,640×480 pixels			
Dimension	370mm(L)×180mm(H)×120mm(W)				
Weight	2.1Kg	2.2Kg			

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Bandwidth	25MHz	100MHz			200MHz
Sample rate(Real time)	100MS/s	1GS/s(500MS/s for dual channels)		2GS/s(1G/s for dual channels)	
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5	2ns/div~100s/div,step by 1~2~5			1ns/div~100s/div,step by 1~2~5
Rise time (at input, typical)	≤ 14ns	≤ 3.5ns			≤ 1.7ns
Channels	2+1(External)				
Input impedance	1MΩ±2%, in parallel with 20pF±3pF				
Max. input voltage	300V (DC + AC PK-PK)	400V (DC + AC PK-PK)			
Record length	6000 on each channel			Max,2M points	
Probe attenuation factor	1X, 10X, 100X, 1000X				
Interpolation	(sin x)/x				
Vertical resolution (A/D)	8 bit (2 channels simultaneously)				
Vertical sensitivity	5mV/div~5V/div(at input)	2mV/div~10V/div(at input)			
DC gain accuracy	±3%				
DC accuracy(Average)	Average>16:±(3% rdg+0.05div) for ΔV				
Trigger type	Edge, Video, Alternate				
Automatic measurement	Vpp, Vavg, RMS, Frequency, Period, Vmax, Vmin, Vtop, Vbase, Width, Overshoot, Pre-shoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Delay A→B, Delay A→B				
Cursor measurement	ΔV and ΔT between cursors				
Waveform Math	+, -, ×, ÷, FFT				
Waveform storage	4 waveforms				
Lissajou's figure	Bandwidth	25MHz	100MHz		200MHz
	Phase difference	± 3 degrees			
Communication interface	USB				
Power supply	100V-240V ACRMS, 50/60Hz, CAT II				
Fuse	1A, T grade, 250V				

Logic Analyzer Specification

Model	MSO5022S	MSO7102T/TD	MSO8102T	MSO8202T	
Sample rate(real time)	20S/s-100MS/s	20S/s-400MS/s			
Bandwidth	33MHz	66MHz			
Threshold voltage	± 10V(4 settings)				
Input signal range	± 15V				
Channels	16				
Record length	4M/channel(16K when sample rate is only 400MS/s)				
Input impedance	1MΩ±2%				
					Trigger position setting
					Pre-trigger, mid-trigger, re-trigger
					Trigger mode
					Edge trigger, Bus trigger, Pattern trigger, Sequential queue trigger, Data width trigger
					Data search
					Available
					Data System
					Binary system, Decimal system, Hex
					Digital filter
					0,1,2 optional
					Storage setting
					10 settings
					USB storage
					Available

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