

MSO Series
Mixed LA-Oscilloscope



Main Features:

- 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




Dimension: 370mm(L)×180mm(H)×120mm(W)
Weight: 2.2kg



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(1GS/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
Display	7.8" color LCD, STN display	8.0" color LCD, TFT screen, 640×480 pixels			
Channels	Dual channels + external trigger				
Input impedance	1MΩ±2%, in parallel with 20pF±3pF				
Max. input voltage	300V (DC + AC PK-PK)	400V (DC + AC PK-PK)			
Record length	Max.6000 points 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% reading+0.05div) for ？V				
Acquisition mode	Normal, Peak Detect, Average				

Performance characteristics

Model		MSO5022S	MSO7102T	MSO7102TD 	MSO8102T 	MSO8202T 
Trigger type		Edge, Video, Alternate, Pulse, Slope				
Cursor measurement		ΔV and ΔT between cursors				
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 _f ,Delay A→B _r				
Waveform Math		+, -, ×, ÷, FFT				
Waveform storage		4 waveforms				
Trigger mode		Auto, Normal, Single				
Lissajou's figure	Bandwidth	25MHz	100MHz	100MHz	100MHz	200MHz
	Phase difference	±3 degrees				
Communication interface		USB, Support USB Flash Disk Storage				
Cymometer		Unavailable			Available	
Power supply		100V-240V ACRMS, 50/60Hz, CAT II				
Battery		7.4V 8000mA				
Fuse		1A, T grade , 250V				

Logic analyzer characteristics

Model	MSO5022S	MSO7102T	MSO7102TD	MSO8102T	MSO8202T	Data search	Available
Sample rate (real time)	20S/s-100MS/s	20S/s-400MS/s				Digital filter	0,1,2 optional
Bandwidth	33MHz	66MHz				Storage setting	10 settings
Threshold voltage	±10V(4 settings)					USB flash disk storage	Available
Input signal range	±15V						
Channels	16						
Record length	4M/channel						
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,Distributed queue trigger						
Data System	Binary system, Decimal system, Hex						

OWON continues to improve products and reserves the rights to change specifications without advance notice. For latest ones,please refer to our website.

Application

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

Accessories

The receipt of accessories should be taken as final.

