

MSO Series

Mixed LA-Oscilloscope



1. Support both DSO and LA
2. 2 channels+1(External) (DSO)
3. 7.8 or 8.0 inch LCD color display
4. USB Flash Disk Storage

- Digital Storage Oscilloscope:
1. 25MHz~200MHz bandwidth
 2. Up to 2GS/s real time sample rate
 3. Autoscale function
 4. FFT

- Logic Analyzer:
1. 40~200MHz bandwidth
 2. Up to 1GS/s real time sample rate
 3. 16 input channels
 4. Advanced trigger functions , Various methods for data analysis.

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



Package



Weight: 4.5kg
 Color box dimension:
 41cm(L)×8.5cm(H)×8.5cm(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



Performance characteristics



Model	MSO5022S	MSO7102TD	MSO8102T	MSO8202T
Bandwidth	25MHz	100MHz	100MHz	200MHz
Sample rate(real time)	100MS/s	500MS/s(1GS/s for single channel)	1GS/s(2GS/s for single channel)	
Display	7.8 " color STN LCD,640×480 pixels		8"color TFT LCD,640×480 pixels	
Dimension	370mm(L)×80mm(H)×20mm(W)			
Weight	2.1Kg	2.2Kg		

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Bandwidth	25MHz	100MHz	100MHz	200MHz
Sample rate(Real time)	100MS/s	500MS/s(1GS/s for single channel)	1GS/s(2GS/s for single channel)	
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±5pF			
Max. input voltage	300V (DC + AC PK-PK)	400V (DC + AC PK-PK)		
Record length	6K on each channel			
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 \int , Delay A→B \int			
Cursor measurement	ΔV and ΔT between cursors			
Waveform Math	+, -, ×, ÷, FFT			
Waveform storage	4 waveforms			
Lissajou's figure	Bandwidth	25MHz	100MHz	
	Phase difference	± 3degrees		
Communication interface	USB			
Power supply	100V-240V ACRMS, 50Hz, CATII			
Fuse	1A, T grade, 250V			

Logic Analyzer Specification

Model	MSO5022S	MSO7102TD	MSO8102T	MSO8202T			
Sample rate (real time)	20S/s-100MS/s	20S/s-1GS/s			Trigger position setting	Pre-trigger, mid-trigger, re-trigger	
Bandwidth	33MHz	200MHz			Trigger mode	Edge trigger, Bus trigger, Pattern trigger, Sequential queue trigger, Data width trigger	
Threshold voltage	±6V(4 settings)					Data search	Available
Input signal range	±30V					Data System	Binary system, Decimal system, Hex
Channels	16					Digital filter	0,1,2 optional
Record length	4M/channel(16Kwhen sample rate is only 400MS/s)					Storage setting	10 settings
Input impedance	1MΩ±2%					USB storage	Available

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

Please contact local distributor for further information.

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