

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



Probe



Power cord



USB



CD-Rom



Logic analyzer module



Probe adjust



Manual



Battery(optional)



bag(optional)

Package



Weight: 4.5kg

Color box dimension:

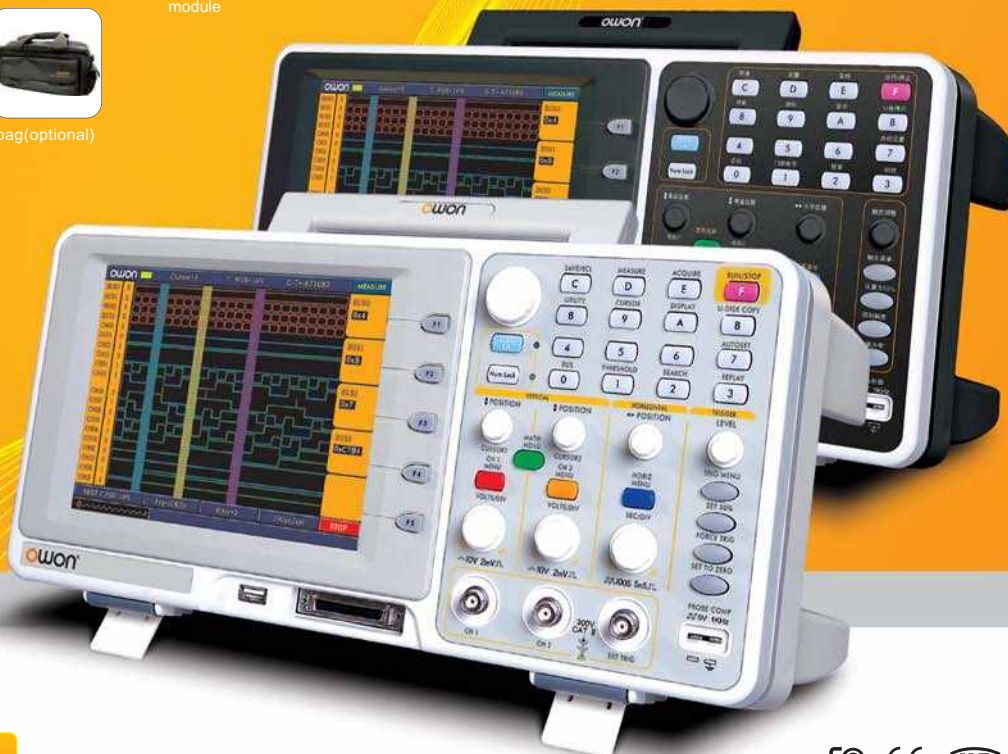
41cm(L)×8.5cm(H)×8.5cm(W)

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
Rise time (at input, typical)		≤ 14ns	≤ 3.5ns		1ns/div~100s/div,step by 1~2~5
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 $\overline{f}$, Delay A→B $\overline{t}$			
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
Bandwidth	33MHz	200MHz			Pre-trigger, mid-trigger, re-trigger
Threshold voltage	±6V(4 settings)				Trigger mode
Input signal range	±30V				Edge trigger, Bus trigger, Pattern trigger, Sequential queue trigger, Data width trigger
Channels	16				Data search
Record length	4M/channel(16Kwhen sample rate is only 400MS/s)				Available
Input impedance	1MΩ±2%				Data System
					Binary system, Decimal system, Hex
					Digital filter
					0,1,2 optional
					Storage setting
					10 settings
					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

LILLIPUT®

Fujian Lilliput Optoelectronics Technology Co.,Ltd.

Please contact local distributor for further information.

The mansion of Optoelectronics ,Hengsan Road
Lantian Industrial Zone,Zhangzhou,Fujian,China.
Tel +86-596-2130430 Fax +86-596-2109272

5F,B Area,Chuangxin Plaza,Softpack,Zhenzhu Wan
Huan Dao Rd,Xiamen,China.
Tel +86-592-2575666 Fax +86-592-2575669