

PDS Series

Portable Digital Storage Oscilloscope

owon[®]
+ Meet your best need

1. Autoscale
2. 20MHz-100MHz bandwidth
3. Up to 500MS/s real time sample rate
4. Max. record length of 5000 points for each channel
5. 7.8 or 8.0 inch LCD color display for large view
6. Support USB for data transmission
7. Advanced trigger function: Edge trigger Video trigger and Alternate trigger.

Application:

Electronic circuit debugging Circuit testing
Design and manufacture Education and training
Automobile maintenance and testing



Accessories

Standard:



Probe



Power cord



Probe adjust



USB



CD-Rom

Optional:



Battery

Package



Weight: 3.1kg

Color box dimension:

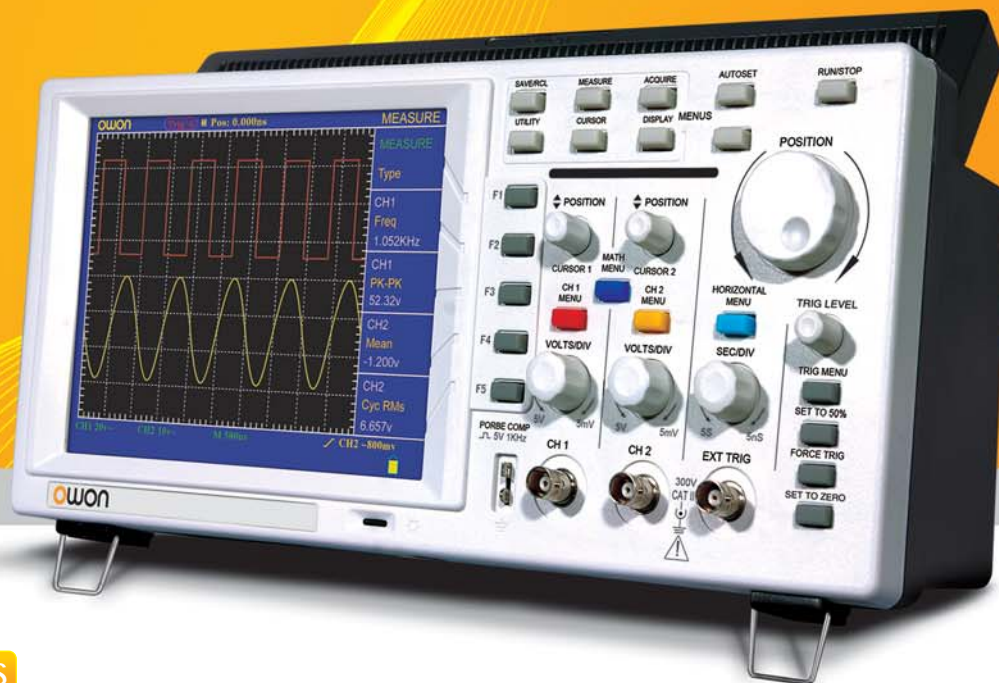
40cm(L) × 23.5cm(H) × 17cm(W)

1Pcs in carton: 42cm(L) × 29cm(H) × 19.5cm(W) 3.1kg

2Pcs in carton: 42cm(L) × 37cm(H) × 28cm(W) 6.2kg

3Pcs in carton: 54cm(L) × 42cm(H) × 28cm(W) 9kg

4Pcs in carton: 71cm(L) × 43cm(H) × 28cm(W) 11.93kg



Performance characteristics

Model	PDS5022S	PDS6042S	PDS6062S/T	PDS7062T	PDS7102T
Bandwidth	25MHz	40MHz	60MHz	60MHz	100MHz
Sample rate(real time)	100MS/s	250MS/s	250MS/s	500MS/s	500MS/s
Display	7.8 inch color LCD, STN screen, 640×480 pixels			8.0 inch color LCD, TFT screen, 640×480 pixels	
Dimension	350mm(L) × 157mm(H) × 103mm(W)				
Weight	1Kg				1.75Kg

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Model	PDS5022S	PDS6042S	PDS6062S/T	PDS7062T	PDS7102T
Bandwidth	25MHz	40MHz	60MHz	60MHz	100MHz
Sample rate(Real time)	100MS/s	250MS/s	250MS/s	500MS/s	500MS/s
Horizontal Scale(S/div)	5ns/div 100s/div,step by 1 2.5 5	5ns/div 5s/div,step by 1 2 5	5ns/div 100s/div,step by 1 2 5		
Rise time (at input, typical)	14ns	8.75ns	5.8ns		3.5ns
Channels	Dual channels+external trigger				
Input impedance	1M \pm 2% in parallel with 20pF \pm 5pF			1M \pm 2% in parallel with 15pF \pm 3pF	
Isolation between channels	50Hz(100:1), 10MHz(25:1)			50Hz(100:1), 10MHz(40:1)	
Max. input voltage	300V(DC + AC PK-PK, 1M input impedance, Probe attenuation 10:1)			400V(DC + AC PK-PK)	
DC gain accuracy	\pm 5%			\pm 3%	
DC accuracy(Average)	Average 16: \pm (5% reading+0.05div) for V			Average 16: \pm (3% reading+0.05div) for V	
Probe attenuation factor	1X 10X 100X 1000X				
LF respond(AC, -3dB)	5Hz(at input)				
Record length	Max.6000 points on each channel				
Sampling rate/relay time accuracy	\pm 100ppm				
Interpolation	(sin x)/x				
Interval(T) accuracy(full bandwidth)	Single: \pm (1 interval time+100ppm \times reading+0.6ns) Average>16: \pm (1 interval time+100ppm \times reading+0.4ns)				
Displacement	\pm 50V(500mV-5V), \pm 2V(5mV-200mV)				
Vertical resolution (A/D)	8 bit (2 channels simultaneously)				
Vertical sensitivity	5mV/div 5V/div(at input)				
Trigger type	Edge	Rising edge Failing edge			
	Video	Line synchronization Field synchronization		Line synchronization Odd field Field synchronization Even field Any field	
	Alternate	Available			
Trigger level	\pm 6 divisions from screen center				
Cursor measurement	V and T between cursors				
Automatic measurement	Peak-to-Peak, Average, Root mean square, Frequency and Period				
Waveform Math	, , Invert				
Waveform storage	4 waveforms				
Lissajou's figure	Bandwidth	25MHz	40MHz	60MHz	100MHz
	Phase difference	\pm 3 degrees			
Communication interface	USB				
Power supply	100V-240V AC, 50Hz, CAT				
Fuse	1A, T class, 250V				

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Please contact local distributor for further information.



MSO Series

Mixed LA-Oscilloscope



Performance characteristics

Model	MSO5022S		MSO7102T	
Bandwidth	25MHz		100MHz	
Sample rate(Real time)	100MS/s		1GS/s (single channel)	
Horizontal Scale(S/div)	5ns/div 5s/div,step by 1 2.5 5		5ns/div 100s/div,step by 1 2 5	
Rise time (at input, typical)	14ns		3.5ns	
Channels	2+1(External)			
Input impedance	1M \pm 2% in parallel with 20pF \pm 5pF		1M \pm 2% in parallel with 15pF \pm 3pF	
Max. input voltage	300V (DC + AC PK-PK)		400V (DC + AC PK-PK)	
Record length	Max.5000 points on each channel		Max.6250 points 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	\pm 5%		\pm 3%	
DC accuracy(Average)	Average > 16: \pm (5% reading + 0.05div) for V		Average > 16: \pm (3% reading + 0.05div) for V	
Trigger type	Edge	Rising edge Failing edge		
	Video	Line synchronization	Field synchronization	Line Field Odd field Even field Any field
	Alternate	Unavailable		Available
Cursor measurement	V and T between cursors			
Waveform Math	, , Invert			
Waveform storage	4 waveforms			
Lissajou's figure	Bandwidth	25MHz	100MHz	
	Phase difference	\pm 3 degrees		
Communication interface	USB			
Power supply	100V-240V ACRMS, 50Hz, CAT			
Fuse	2A, T class, 250V			

Logic Analyzer Specification

Model	MSO5022S	MSO7102T	
Sample rate (real time)	20S/s-100MS/s	20S/s-400MS/s	Trigger position setting
Bandwidth	33MHz	66MHz	Pre-trigger, mid-trigger, post-trigger
Threshold voltage	0-4V(4 settings)	\pm 10V(4 settings)	Trigger mode
Input signal range	0-5V	\pm 15V	Edge trigger, Bus trigger, Pattern trigger, Sequential queue trigger, Data width trigger
Channels	16		Data search
Record length	4M/channel		Available
Input impedance	1M \pm 2%		Data System
			Binary system, Decimal system, Hex
			Digital filter
			0,1,2 optional
			Storage setting
			10 settings
			USB storage
			Available

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HDS-N Series

Handheld Digital Storage Oscilloscope



Performance characteristics

Model	HDS1022M-N		HDS2062M-N	
Bandwidth	20MHz		60MHz	
Sample rate(Real time)	100MS/s		250MS/s	
Horizontal Scale(S/div)	5ns/div 100s/div,step by 1 2.5 5		5ns/div 100s/div,step by 1 2 5	
Rise time (at input, typical)	17.5ns		5.8ns	
Channels	Dual			
Input impedance	1M \pm 2% in parallel with 20pF \pm 5pF			
Probe attenuation factor	1X 10X 100X 1000X			
Max. input voltage	400V (PK-PK) DC + AC PK-PK, 1M input impedance, Probe attenuation 10:1			
Record length	Max.6000 points on each channel			
Interpolation	(sin x)/x			
Vertical resolution (A/D)	8 bit (2 channels simultaneously)			
Vertical sensitivity	5mV/div 5V/div(at input)			
DC gain accuracy	\pm 5%			
DC accuracy(Average)	Average > 16: \pm (5% reading+0.05div) for V			
Trigger type	Edge	Rising edge Failing edge		
	Video	Line Field Odd field Even field Any field		
	Alternate	Available		
Trigger level	\pm 6 divisions from screen center			
Cursor measurement	V and T between cursors			
Waveform Math	, , \times , \div , Invert			
Waveform storage	4 waveforms			
Lissajou's figure	Bandwidth	20MHz	60MHz	
	Phase difference	\pm 3 degrees		
Communication interface	USB			
Power supply	100V-240V AC, 50/60Hz			
Li-ion battery	7.4V, 3500mA			

Multimeter specifications

Full scale reading	$3\frac{3}{4}$ digits (Max.4000-count)
Input Impedance	10 M
Max input Voltage	AC 400V, DC:400V
Max input Current	AC:10A, DC:10A

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