

PDS Series

Portable Digital Storage Oscilloscope

owon[®]
+ Meet your best need

1. Autoscale
2. FFT
3. Bandwidth: 25MHz-100MHz
4. Sample rate: Max up to 500MS/s
5. Max. record length of 6000 points for each channel
6. 8.0 inch LCD color display for large view
7. Support USB for data transmission to PC
8. 20 Automatic Measurements
9. 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

FC CE MC

Accessories

The receipt of accessories should be taken as final



Probe



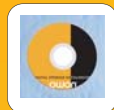
Power cord



Probe adjust



USB



CD-Rom



Manual



bag(optional)



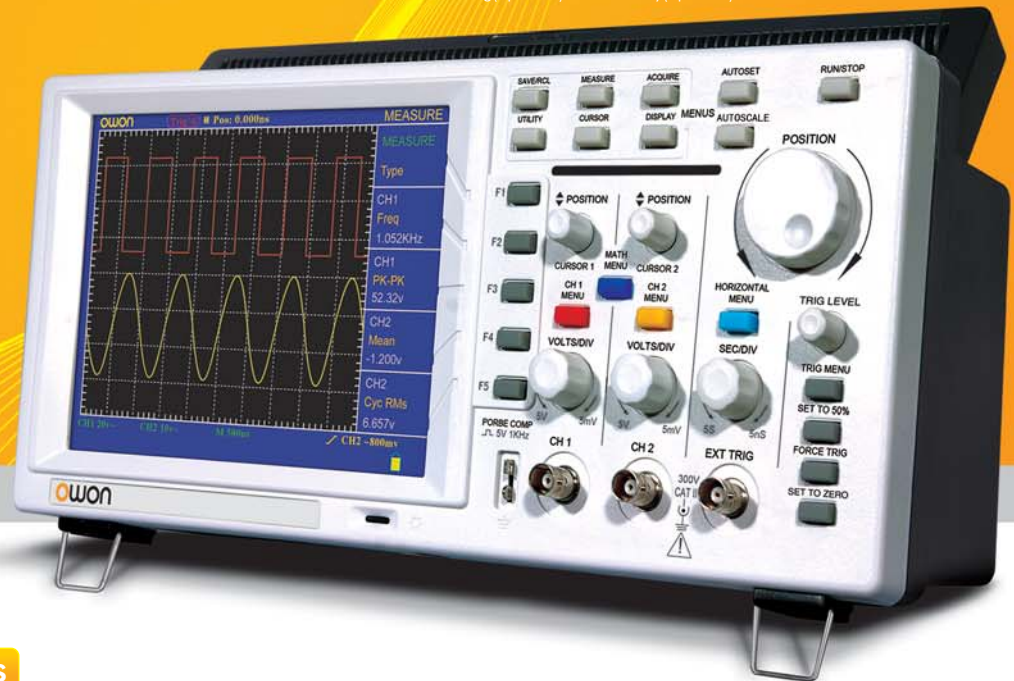
Battery(optional)

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	PDS6062S	PDS6062T	PDS7102T
Bandwidth	25MHz	60MHz	60MHz	100MHz
Sample rate(real time)	100MS/s	250MS/s	250MS/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	1.7Kg			

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Bandwidth	25MHz	60MHz	60MHz	100MHz	
Sample rate(Real time)	100MS/s	250MS/s	250MS/s	500MS/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)	≤ 14ns	≤ 5.8ns		≤ 3.5ns	
Channels	Dual channels+external trigger				
Input impedance	1MΩ±2%, in parallel with 20pF±3pF				
Isolation between channels	50Hz(100:1), 10MHz(25:1)			50Hz(100:1), 10MHz(40:1)	
Max. input voltage	300V(DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)			400V(DC + AC PK-PK)	
DC gain accuracy	± 5%			± 3%	
DC accuracy(Average)	Average≥ 16:±(5% reading+0.05div) for ΔV			Average≥ 16:±(3% reading+0.05div) for ΔV	
Acquisition modes	Sample, Peak Detect and Average				
Probe attenuation factor	1X, 10X, 100X, 1000X				
LF respond(AC, -3dB)	≥ 5Hz(at input)				
Record length	5000 points on each channel	6000 points on each channel			
Sampling rate/relay time accuracy	± 100ppm				
Input coupling	DC, AC			DC, AC, GND	
Interval(ΔT) accuracy(full bandwidth)	Single: ±(1 interval time+100ppm×reading+0.6ns) Average> 16:±(1 interval time+100ppm×reading+0.4ns)				
Displacement	± 50V(500mV-5V), ± 2V(5mV-200mV)				
Vertical resolution (A/D)	8 bit (2 channels simultaneously)				
Vertical sensitivity	5mV/div~5V/div(at input)				
Trigger type	Edge, Video			Edge, Video, Alternate	
Trigger level	± 6 divisions from screen center				
Trigger mode	Auto, Normal, Single				
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, Delay A→B				
Waveform Math	+, -, FFT				
Waveform storage	4 waveforms				
Lissajou's figure	Bandwidth	25MHz	60MHz	60MHz	100MHz
	Phase difference	± 3 degrees			
Communication interface	USB				
Power supply	100V-240V AC, 50/60Hz, CAT II				
Fuse	1A, T class, 250V				

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