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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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
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		1MΩ±2%，in parallel with 20pF±5pF			1MΩ±2%，in parallel with 15pF±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 △V			Average≥16:±(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		±100ppm				
Interpolation		(sin x)/x				
Interval(△T) 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	Rising edge 、Failing edge				
	Video	Line synchronization、Field synchronization			Line synchronization、Odd field、Field synchronization、Even field、Any field	
	Alternate	Available				
Trigger level		±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	±3 degrees				
Communication interface		USB				
Power supply		100V-240V AC, 50Hz, CAT II				
Fuse		1A, T class, 250V				

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

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