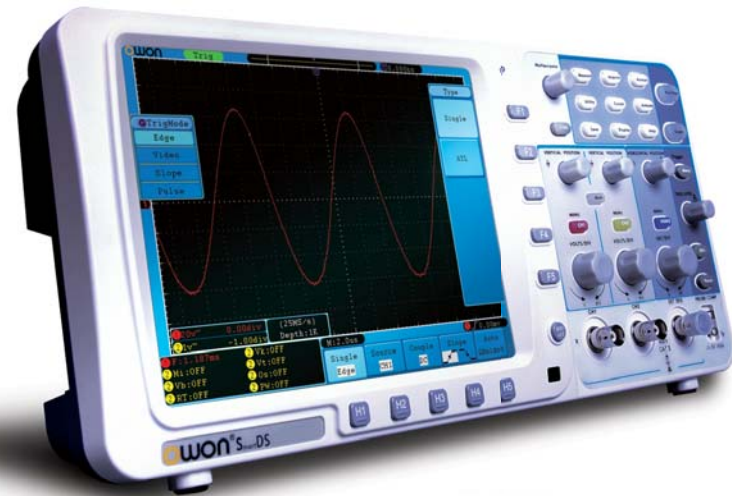


SmartDS Series

Deep Memory Digital Storage Oscilloscope

NEW! **10M**
Deep Memory



Main Features:

1. 60MHz~300MHz with dual channels;
2. 500MS/s~3GS/s sample rate;
3. 10M record length for each channel;
4. Large 8-inch 800x600 pixels display;
5. Autoscale function ;
6. Pass/Fail function;
7. Smart design with easy workplace;
8. Battery (Optional);
9. Multiple interface: USB; VGA(optional)

Dimension: 340mm(L)×155mm(H)×70mm(W)
Weight: 1.8kg (without battery)



Performance characteristics

Model	SDS6062	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	100MHz	100MHz	200MHz	300MHz	
Sample rate(Real time)	500MS/s	1GS/s	2GS/s		2.5GS/s	3.2GS/s
Horizontal Scale(S/div)	5ns/div~100s/div, step by 1~2~5	2ns/div~100s/div, step by 1~2~5	1ns/div~100s/div, step by 1~2~5			
Rise time (at input, typical)	≤5.8ns	≤3.5ns		≤1.7ns	≤1.17ns	
Channels	2 + 1 (External)					
Display	8" color LCD, TFT display , 800×600 pixels, 65535 colors					
Input impedance	1MΩ±2%, in parallel with 10pF±5pF					
channels Isolation	50Hz: 100 : 1, 10MHz: 40 : 1					
Max. input voltage	400V (PK-PK) (DC + AC PK-PK)					
DC gain accuracy	±3%					
DC accuracy(Average)	Average≥16:±(3% reading+0.05div) for ΔV					
Probe attenuation factor	1X, 10X, 100X, 1000X					
LF respond(AC, -3dB)	≥5Hz(at input, AC coupling, -3dB)					
Record length	Max.10M points for each channel					
Sampling rate/relay time accuracy	±100ppm					
Interpolation	(sin x)/x					

Performance characteristics

Model	SDS6062	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	100MHz		200MHz	300MHz	
Interval(ΔT) accuracy(full bandwidth)	Single: ±(1 interval time+100ppm×reading+0.6ns) Average>16:±(1 interval time+100ppm×reading+0.4ns)					
Input coupling	DC, AC , Ground					
Vertical resolution (A/D)	8 bits resolution (2 Channels simultaneously)					
Vertical sensitivity	2mV/div~10V/div(at input)					
Trigger type	Edge, Pulse, Video, Slope, Alternate					
Trigger mode	Auto, Normal, Single					
Trigger level	±6 divisions from screen center					
Acquisition modes	Sample, Peak Detect and Average					
Line/field frequency(Video)	Support standard NTSC、PAL and SECAM broadcast systems					
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	15 waveforms					
Lissajou's figure	Bandwidth	Full bandwidth				
	Phase difference	±3 degrees				
Communication interface	USB, USB flash disk storage,Pass/Fail, VGA(optional)					
Cymometer	Available					
Power supply	100V-240V AC, 50/60Hz, CAT II					
Power consumption	<18W					
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.

Application

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

Accessories

The receipt of accessories should be taken as final.

