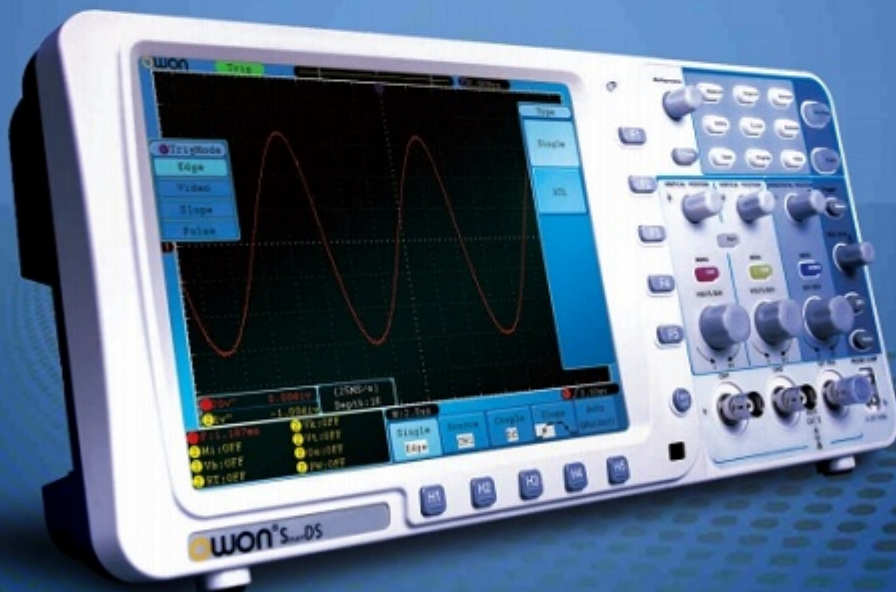




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# SmartDS

Deep Memory Digital Storage Oscilloscope

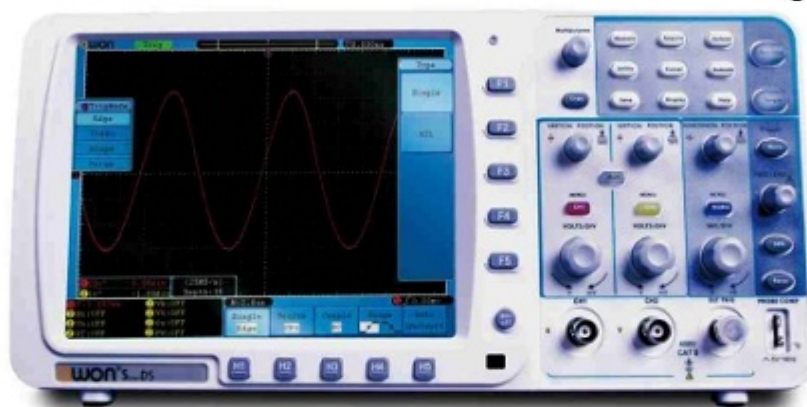


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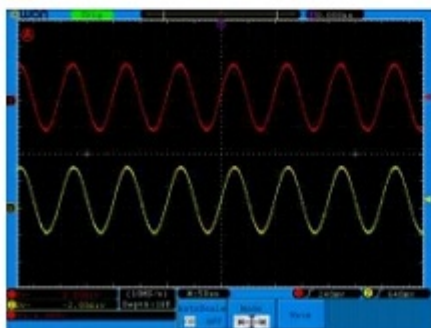


## Smart DS Series



## Functions and Features

### Autoscale Function

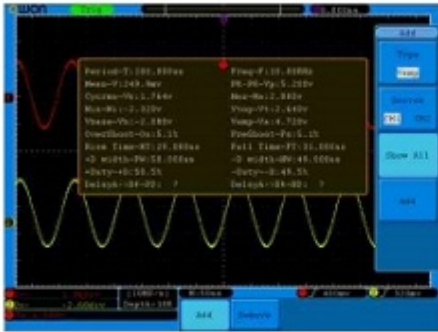


### Multi-language Operation Menu

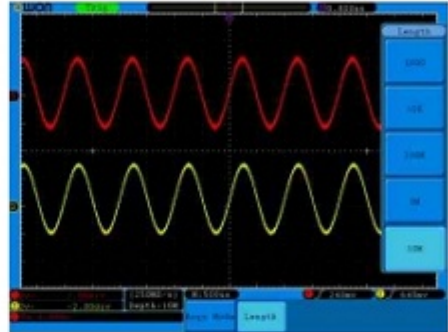


## Functions and Features

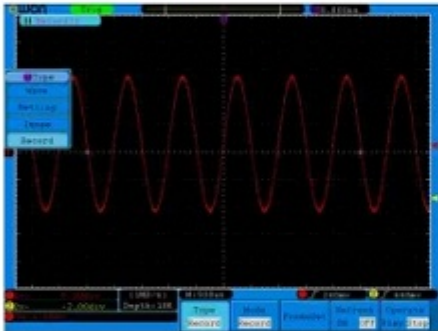
Show All Function



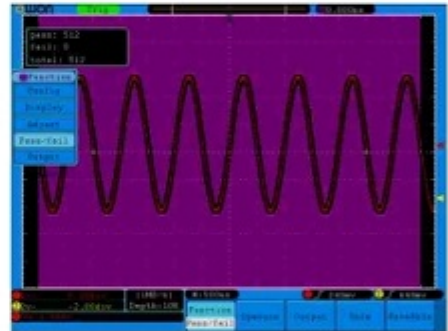
10M record length for each channel



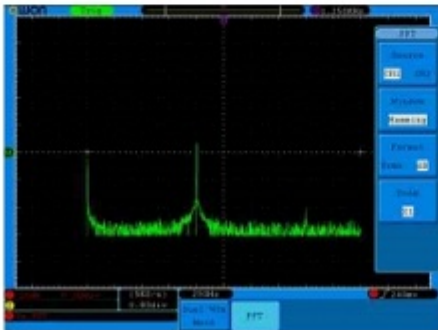
Waveform Record & Replay



Pass / Fail



FFT Waveform Math



VGA Output



**10M**

Deep Memory

## Smart DS Series

### Deep Memory Digital Storage Oscilloscope

- ✓ Bandwidth : 60MHz - 300MHz with dual-channel
  - ✓ Sample rate : 500MS/s - 3.2GS/s
  - ✓ 10M record length for each channel
  - ✓ Smart design with easy portability
  - ✓ Large 8 inch 800 x 600 pixels LCD
  - ✓ LAN remote control
  - ✓ Multi-function : auto-scale, Pass / Fail, current measurement, and **digital filtering**
  - ✓ SCPI, and LabVIEW supported
- ✓ *Optional BATTERY available*



### + Performance Specifications

Model	SDS6062	SDS7072	SDS7102	SDS7202	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	70MHz	100MHz	200MHz	100MHz	200MHz	300MHz	
Sample Rate	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	≤5.8ns	≤5ns	≤3.5ns	≤1.7ns	≤3.5ns	≤1.7ns	≤1.17ns	
Display	8" color LCD, 800 x 600 pixels							
Channel	2 + 1 (external)							
Record Length	10M							
Input Coupling	DC, AC, and GND							
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF							
Channel Isolation	50MHz : 100 : 1, 10MHz : 40 : 1							
Max Input Voltage	400V (DC + AC Peak)							
DC Gain Accuracy	±3%							
DC Accuracy	average ≥ 16 : ±(3% reading + 0.05 div) for ΔV							
Probe Attenuation Factor	1X, 10X, 100X, 1000X							
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)							
Sample Rate / Relay Time Accuracy	±100ppm							
Interpolation	sin(x)/x							
Interval (ΔT) Accuracy (full bandwidth)	Single : ±(1 interval time + 100ppm × reading + 0.6ns); Average > 16 : ±(1 interval time + 100ppm × reading + 0.4ns)							
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)							
Vertical Sensitivity	2mV/div - 10V/div							
Digital Filtering	low-pass, high-pass, band-pass, and band-reject							

Model	SDS6062	SDS7072	SDS7102	SDS7202	SDS8102	SDS8202	SDS8302	SDS9302
Trigger Type	Edge, Pulse, Video, Slope, and Alternate							
Trigger Mode	Auto, Normal, and Single							
Trigger Level	$\pm 6$ divisions from screen center							
Acquisition Mode	Sample, Peak Detect, and Average							
Line / Field Frequency (video)	NTSC, PAL and SECAM standard							
Cursor Measurement	$\Delta V$ , and $\Delta T$ between cursors							
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Peak RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty, Duty cycle							
Waveform Math	+, -, *, /, invert, FFT							
Waveform Storage	15 waveforms							
Lissajous Figure	Bandwidth	full bandwidth						
	Phase Difference	$\pm 3$ degrees						
Communication Interface	USB host, USB device, Pass / Fail, LAN, VGA (optional), and RS232 (optional)							
Frequency Counter	available							
Power Supply	100V - 240V AC, 50/60Hz, CAT II							
Power Consumption	< 18W			< 24W				
Fuse	2A, T class, 250V							
Battery (optional)	7.4V, 8000mA							
Dimension (W x H x D)	340 x 155 x 70 (mm)							
Device Weight	1.80 kg							

Specifications subject to change without prior notice.

## + Application

electronic circuit debugging  
education and training

circuit testing      design and manufacture  
automobile maintenance and testing



## + Accessories

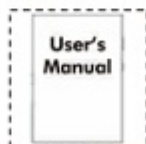
The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB



Probe



Probe Adjust



Battery  
(optional)



Soft Bag  
(optional)



## LILLIPUT®

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