

# 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
- + Multi-function : auto-scale, Pass / Fail, and current-measuring
- + Supported SCPI
- + LAN remote control
- + Smart design with easy portability
- + Large 8 inch 800 x 600 pixels display
- + Optional battery available



## + Performance Specifications

Model	SDS6062	SDS7072	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	70MHz	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	≤1.17ns		
Display	8" color LCD, 800 x 600 pixels, 65535 colors						
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 (PK - PK) (DC + AC, PK - PK)						
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)						
Sampling 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						

Model	SDS6062	SDS7072	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Trigger Type	Edge, Pulse, Video, Slope, Alternate						
Trigger Mode	Auto, Normal, Single						
Trigger Level	±6 divisions from screen center						
Acquisition mode	Sample, Peak Detect, and Average						
Line / Field Frequency (video)	NTSC, PAL and SECAM standard						
Cursor Measurement	ΔV, and ΔT 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						
	Phase Difference						
Communication Interface	USB host, USB device, Pass / Fail, LAN, VGA (optional), or RS232 (optional)						
Frequency Counter	available						
Power Supply	100V - 240V AC, 50/60Hz, CAT II						
Power Consumption	< 24W						
Fuse	2A, T class, 250V						
Battery (optional)	7.4V, 8000mA						
Dimension (W × H × D)	340 × 155 × 70 (mm)						
Weight (without package)	1.80 kg						

Specifications subject to change without prior notice.

## + Application

electronic circuit debugging    circuit testing    design and manufacture  
education and training    automobile maintenance and testing

## + Accessories

The accessories subject to final delivery.

