



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
- + SCPI Supported
- + LAN remote control
- + Smart design with easy portability
- + Large 8 inch 800 x 600 pixels LCD
- + 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						
Channel	2 + 1 (external)						
Record Length	10M						
Input Coupling	DC, AC, and GND						
Input Impedance	$1\text{M}\Omega \pm 2\%$, in parallel with $10\text{pF} \pm 5\text{pF}$						
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 Δ V						
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						

Model		SDS6062	SDS7072	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Trigger Type		Edge, Pulse, Video, Slope, and Alternate						
Trigger Mode		Auto, Normal, and 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		+, -, x, ÷, invert, FFT						
Waveform Storage		15 waveforms						
Lissajous Figure	Bandwidth	full bandwidth						
	Phase Difference	±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		< 24W						
Fuse		2A, T class, 250V						
Battery (optional)		7.4V, 8000mA						
Dimension (W x H x D)		340 x 155 x 70 (mm)						
Weight (without package)		1.80 kg						

Specifications subject to change without prior notice.