



10M

Deep Memory

SDS8102V

Deep Memory Digital Storage Oscilloscope

- + Bandwidth : 100MHz with dual-channel
- + Sample rate : 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

VGA

LAN

USB

WAVE RECORD

FFT

+ Performance Specifications

Model	SDS8102V
Bandwidth	100MHz
Sample Rate	2GS/s
Horizontal Scale (s/div)	1ns/div ~ 100s/div, step by 1~2~5
Rise Time	≤3.5ns
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
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)		NTSC, PAL and SECAM standard
Cursor Measurement		ΔV, and ΔT between cursors
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B  , Delay A→B  , +Width, -Width, +Duty, -Duty
Waveform Math		+, -, ×, ÷, invert, FFT
Waveform Storage		15 waveforms
Lissajous	Bandwidth	full bandwidth
Figure	Phase Difference	±3 degrees
Communication Interface		USB, USB flash disk storage, Pass / Fail, LAN, VGA (optional), or RS232 (optional)
Cymometer		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
education and training
- circuit testing
automobile maintenance and testing
- design and manufacture

+ Accessories The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB



Probe



Probe Adjust



Battery
(optional)



Soft Bag
(optional)