



SDS7102E-V

2nd generation economical type digital storage oscilloscope

- + Bandwidth : 100MHz
- + Sample rate : 1GS/s
- + 100K record length(10M optional)
- + Ultra-thin body
- + 8 inch high def TFT display
- + Pass / Fail function
- + Add / Remove measure function, and user-defined measurement menu



+ Performance Specifications

Model	SDS7102E-V
Bandwidth	100MHz
Sample Rate (real time)	1GS/s
Horizontal Scale (s/div)	2ns/div ~ 100s/div, step by 1~2~5
Rise Time (at input, typical)	≤3.5ns
Channel	2 + 1 (external)
Display	8" color LCD, TFT display , 800 × 600 pixels, 65535 colors
Input Impedance	1MΩ ± 2%, in parallel with 15pF±3pF
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1
Max Input Voltage	400V (PK - PK) (DC+AC, PK - PK)
DC Gain Accuracy	±3%
Record Length	10K, 100K(optional 10M)
DC Accuracy (average)	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)
Input Coupling	DC, AC , and GND
Vertical Resolution (A/D)	8 bits (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	
Line / Field Frequency (video)	NTSC, PAL, and SECAM standard	
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	+, -, ×, ÷, 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)	
Cymometer	available	
Power Supply	100V - 240V AC, 50/60Hz, CAT II	
Power Consumption	< 18W	
Fuse	2A, T class, 250V	
Battery	not supported	
Dimension (W×H×D)	348 × 170 × 78 (mm)	
Weight (without package)	1.50 kg	

Specifications subject to change without pr or not ce.

+ Application

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

+ Accessories

The accessories subject to final delivery.

