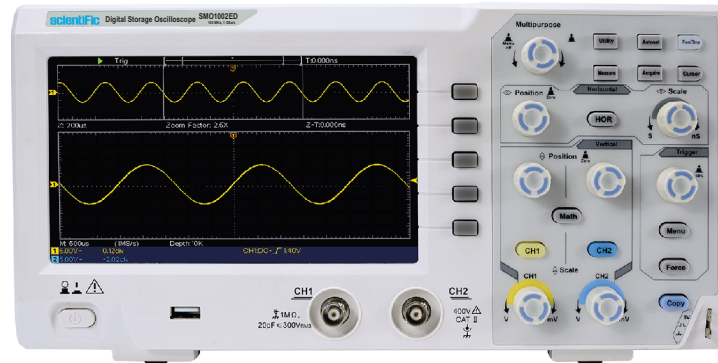


# Digital Storage Oscilloscope SMO502ED, SMO1002ED



## Advance Features

- Bandwidth : 50 MHz, 100 MHz
- 2 Channel
- Sample Rate : 1 GSa/s
- Ultra thin body
- 7 inch High Resolution LCD
- SCPI and Lab View supported

Technical Specifications	SMO502ED	SMO1002ED
Bandwidth	50 MHz	100 MHz
Rise Time (at input, typical)	≤ 7 ns	≤ 3.5 ns
<b>Acquisition</b>		
Sample Rate	1 GSa/s	
Mode	Normal, Peak detect, Averaging	
<b>Vertical System</b>		
Channel	2	
Input Coupling	DC, AC and GND	
Input Impedance	1 MΩ ± 2%, in parallel with 20 pF ± 5 pF	
Max Input Voltage	400 V (PK - PK) ( DC + AC, PK - PK)	
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)	
Vertical Sensitivity	5 mV/div ~ 5 V/div (at input)	
DC Gain Accuracy	± 3%	
Channel Isolation	50 Hz : 100 : 1, 10 MHz : 40 : 1	
Probe Attenuation Factor	1 X, 10 X, 100 X, 1000 X	
<b>Horizontal System</b>		
Horizontal Scale (s/div)	2 ns/div to 1000 s/div, step by 1 - 2 - 5	
DC Accuracy (Average)	Averages ≥ 16 : ± (3% reading + 0.05 div) for Δ V	
LF Response (AC, -3dB)	≥ 10 Hz (at input, AC coupling, -3dB)	
Accuracy	± 100 ppm	
Record Length	10 K	
Interpolation	sin (x) / x	
X-Y Mode	Bandwidth	Full Bandwidth
	Phase Difference	± 3 degrees

Technical Specifications	SMO502ED	SMO1002ED
<b>Trigger System</b>		
Trigger Type	Edge, Video	
Trigger Slope	Rising, Falling	
Trigger Mode	Auto, Normal and Single	
Trigger Level Accuracy	± 0.3 div	
Trigger Level Range	± 5 divisions from screen center	
Trigger Holdoff Range	100 ns ~ 10 s	
Video Trigger	NTSC, PAL and SECAM	
	Line number range : 1-525 (NTSC), 1-625 (PAL/SECAM)	
<b>Measurement System</b>		
Automatic Measurement	Period, Frequency, Mean, Vpp, Vmax, Vmin, Vtop, Vbse, Amplitude, Overshoot, Pre-shoot, Rise time, Fall Time, + Pulse Width, - Pulse Width, + Duty Cycle, - Duty Cycle, Delay A → B, Delay A → B, Cycle RMS, Screen Duty, Phase, + Pulse Count, - Pulse Count, Rise Edge Count, Fall Edge Count, Area, Cycle Area	
Cursor Measurement	ΔV, ΔT, ΔV & ΔT between cursors, Auto Cursor	
Waveform Math	+, -, x, ÷, FFT	
Frequency Counter	Full Bandwidth	
<b>Storage &amp; Interface</b>		
Waveform Storage	16 Waveforms	
Communication Interface	USB host, USB device	
<b>General Specifications</b>		
Power Supply	100 V to 240 V AC, 50/60 Hz, CAT II	
Power Consumption	< 15 W	
Fuse	2 A, T class, 250 V	
Environmental Conditions	Temperature, : 0°C ~ 50°C (Operating), -20°C ~ 60°C (Storage), ≤ 90% RH	
Display Type	7" Colour TFT LCD	
Display Resolution	800 X 480 pixels	
Dimensions (W X H X D)	301 X 152 X 70 mm	
Weight	1.10 Kg	
Accessories	Power Cord, CD, Manual, USB Cable, Probe	

Subject to change

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