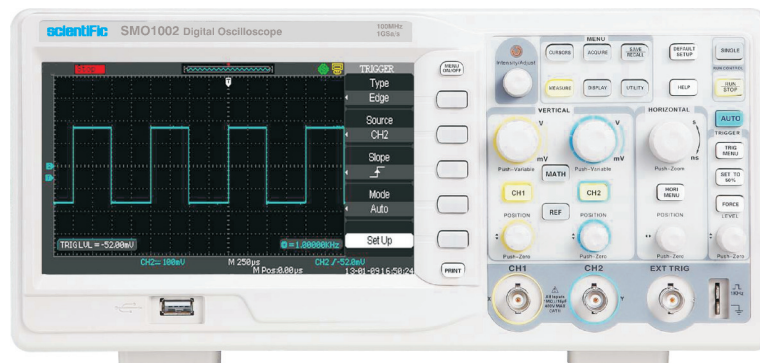


Digital Oscilloscopes SMO1002



Advance Features

- Signal bandwidth: 100 MHz
- Real-time sampling rate: Max. 1 GSa/s
- Equivalent sampling rate: Max. 50 GS/s
- 7.0" TFT LCD Color display
- 2 Mpts memory depth
- Independent vertical scale & position control knobs for each channel
- Edge, Pulse Width, Video, Slope, Alternate trigger mode
- Math functions including add, Subtract, Multiply, Divide & 1024 point FFT
- 32 parameters of automatic measurements
- Unique Digital Filter & Waveform recorder function
- Advanced cursor modes: Manual, Auto & Track
- Waveform Intensity & Grid Brightness can be adjusted
- PASS / FAIL detection, PASS/FAIL output
- Built-in 100 MHz hardware frequency counter
- Save/recall types: Setups, Waveforms, CSV file, Picture Standard Interface
- USB Host: Support USB flash driver save/recall function & update firmware, USB Device: Support Pict Bridge compatible printer & support PC remote control, LAN, Pass/Fail Output

Technical Specifications	SMO1002
Sampling System	
Real Time Sampling	1Gsa/s
Equivalent Sampling	50GSa/s
Memory Depth	2M points
Vertical Resolution	8Bits
Sampling Mode	Sample, Peak detect, Averaging, Roll Mode
Auto Scale	Automatically set vertical scale (V/div), time base (s/div), and trigger mode
Vertical System	Channels 2 analog input channels
Bandwidth	100MHz
Coupling	DC, AC and GND
Bandwidth Limit (-3dB)	20MHz
Calculated Rise Time	< 3.5ns
Vertical Scale	2mV/div to 10V/div 1-2-5 steps
Vertical Gain Accuracy	2mV/div Variable Gain Ranges : < ±4% ; 5mV/div to 10V/div in Fixed Gain Ranges: < ±3%
Vertical Offset Range	2mV – 200mV: ± 1.6V 201mV – 10V: ± 40V
Overshoot	<10% with probe or BNC input into 50Ω
Probe Attenuation Factors Set	x 1, x 5, x 10, x 50, x 100, x 500, x 1000
Input Impedance	1MΩ ± 2% 16 pF ± 3 pF
Max. Input Voltage	400V (DC + AC pk pk 1 MΩ input impedance, X10), CAT I

Technical Specifications	SMO1002
Horizontal System	
Time Base Range	2.5ns – 50s/div
Scan	100ms – 50s/div (1–2.5–5 sequence)
Horizontal Mode	Main, Window, Window Zoom, Roll, X-Y
Time Base Accuracy	± 100 ppm measured over 1ms interval
XY Mode	
Input	X: Channel 1, Y: Channel 2
Bandwidth	100MHz
Trigger System	
Trigger Source	CH 1, CH 2, EXT, EXT/5, AC Line
Trigger Mode	Auto, Normal, Single
Trigger Coupling	DC, AC, LF-reject, HF- reject
Trigger Type	Edge, Pulse Width, Video, Slope, Alternative
Trigger Level Range	Internal : ± 6 div from screen center; EXT : ± 1.2 V; EXT/5 : ± 6 V
Trigger Sensitivity	DC-10MHz: 1 Div, 10MHz - Max. BW: 1.5 Div;
	EXT: DC-10 MHz: 200 mVpp, 300 mVpp 10 MHz - Max. BW;
	EXT/5: DC-10 MHz: 1 Vpp, 10 MHz - Max. BW: 1.5Vpp
Signal Measurement	
Parameters	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Crms, Vrms, ROVShoot, FOVShoot,
	PREShoot, , FPREShoot, Rise time, Fall time, Freq, Period,+ Wid, -Wid, +Dut, -Dut, BWid, Phase,
	FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF
Math Functions	Add, subtract, multiply, divide & 1024 point FFT
Window	Hanning, Hamming, Blackman, Rectangular
Cursor Measurement	Manual, Auto, Track
Hardware Frequency Counter	DC Coupled, 10Hz to Max. BW, resolution: 1Hz; Accuracy: ± 0.01%
Storage & Interface	
Storage	Internal: 2 reference waveform, 20 setup files & 10 captured waveform files
	USB: Setups, Waveforms, CSV file, BMP
Interface	USB HOST, USB DEVICE, LAN & PASS/FAIL OUT
Display System	
Display Screen	TFT LCD display, 7.0"
Resolution	480 (Horizontal) x 234 (Vertical) pixels
Waveform Display	
Scale	8 x 18 div
Type	Dots , Vector
Interpolation	(Sinx) / x, Linear
General Information	
Operating Condition	10°C to 40°C, < 85% RH
Power	100–240V AC, CAT II, 45Hz to 440Hz
Power Consumption	< 50VA
Dimension / Weight	W : 323, D : 136, H: 157 (mm) / 2.5kg (approx.)
Accessories	Probes (2 Nos), Power cord, USB cable, Software CD

Subject to Change

scientific

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