DSO1000B Series Handheld Oscilloscope/Multimeter



60MHz-200MHz Bandwidth Oscilloscope,1GSa/s sample rate,1M Memory Depth, and 6000 Counts DMM with analog bargraph.5.6 inch TFT Color LCD Display, High Resolution(640*480)

Characteristic(Handheld Oscilloscope/Multimete)

- High Bandwidth 60MHz-200MHz Oscilloscope,1GS/s sample rate, and 6000 Counts DMM with analog bargraph.
- 1M Memory Depth.
- High Refresh Rate (2500 frames)
- Large 5.6 inch TFT Color LCD Display, High Resolution(640*480), Dual-Window Design --More clear, More Detailed
- One-touch automatic setup optimizes the position, range, timebase, and triggering to assure a stable display of virtually any waveform
- Easy-to-use pop-up menu with built-in multi-language help system
- 23 Automatic Measurements
- · Waveform Math: Add, Subtract, Multiply, and Divide
- Store and recall over
- Automatic cursor tracking measurements
- XY Mode
- Built-in FFT function converts a time-domain signal into its frequency components to measure harmonic content and distortion in systems
- Waveform Recorder to capture/replay input waveforms from CH1 and CH2 with a maximum record length of 1000 frames
- Pass-Fail function compares a stored waveform to an unknown input
- Average Mode for smoothing waveforms
- Square Wave Output (2V, 1kHz) for probe adjustment
- USB Host/Device 2.0 full-speed interface ,support removeable disk, LAN Optional ,Easy to control by PC or long-distance.
- Dimensions (mm):240(L)x165(W)x50(H), be carried easily.

Hardware Specification

Model	DSO1202B	DSO1102B	DSO1062B
Oscilloscope mode			
Bandwidth	200MHz	100MHz	60MHz
Real-time Sample Rate		1GSa/s	
Equivalent Sample Rate	25GSa/s		
Record Length(Sample Points)	Single-channel: Maximum 1M; Dual-channel:Maximum 512k		
SEC/DIV Range	2nS/div-2000S/div (in a 2, 4, 8 sequence)		
Delay Time Accuracy		500ps	
Vertical			
A/D Converter	8-bit resolution		
VOLTS/DIV Range	2mV/div∼5V/div at input BNC		
Position Range	$\pm 50 \text{V}(5 \text{V/div}), \pm 40 \text{V}(2 \text{V/div} \sim 500 \text{mV/div}), 2 \text{V}(200 \text{mV/div} \sim 50 \text{mV/div}) \pm 400 \text{mV}(20 \text{m})$ $\text{V/div} \sim 2 \text{mV/div})$		
Rise Time at BNC	≤1.7ns	≤3.5ns	≤5.8ns
DC Gain Accuracy	±4% for Sample or Average acquisition mode, 5mV/div to 2mV/div ±3% for Sample or Average acquisition mode, 5V/div to 10mV/div		
Trigger	·	· · · · · · · · · · · · · · · · · · ·	
Trigger	DC: CH1/CH2(Typical) 1d AC: Attenuates signals be	liv from DC to 10MHz;1.5div slow 10Hz	from 10MHz to Full
Sensitivity (Edge Trigger	HF Reject: Attenuates signals above 80kHz		
Type)	LF Reject: Attenuates signals below 150kHz		
	Noise Reject: Reduces trigger sensitivity		
Trigger Level Ra	CH1,CH2: ±8 divisions from center of screen		
Trigger Level Accuracy, typical (Accuracy is for signals	CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen)		

having rise and fall times ≥20ns)			
Holdoff Range	100ns-10s		
Trigger Type			
Edge	Trigger on the rising or falling edge		
Pulse Width	Trigger (when >,<,=,≠) on positive or negative pulses Pulse Width Range: 20ns-10s		
Video	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)		
Slope	Trigger (when >,<,=,≠) on a positive or negative slope Set Time: 20ns–10s		
Overtime	from the rising or falling edge Set Time: 20-10s		
Alternate	Internal trigger on edge, pulse width, video or slope		
Measurement			
Cursors	Manual: The difference between voltage cursors $\triangle V$; the difference between time cursors $\triangle T$; $1/\triangle T$ calculated by Hz. Tracing: The voltage and time at a waveform point		
Automatic(32)	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH、FRF、FFR、LRR、LRF、LFR、LFF		
Meter Mode			
Max.Resolution	6,000 Counts		
DMM Testing Modes	Voltage, Current, Resistance, Capacitance, Diode & Continuity		
Max. Input Voltage	AC: 600V, DC: 800V		
Max. Input Current	AC: 10A, DC: 10A		
Input Impedance	10 ΜΩ		
Display			
Туре	Right angle 5.6 16-digit color LCD		
Resolution	640*480 dots		
Contrast	16 gears, with the progress bar to show adjustment		
Interface	USB host and USB slave, Lan Optional		

Power Supply		
Voltage	DC Input:1217VDC, 1500mA	
Mechanical		
Size	245 x 163 x 52 (mm)	
Weight	1.3KG (exclusive of packing and accessories)	

Software:

Operating system: Windows 7, Windows NT, Windows 2000, Windows XP, VISTA