

DSO1000S Series Handheld Oscilloscope/Multimeter



Hantek®

Isolated level:1000V CATII,600V CATIII.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)

Feature

- Isolated level:1000V CATII,600V CATIII.
- High Bandwidth 60MHz-200MHz Oscilloscope,1GSa/s sample rate, and 6000 Counts DMM with analog bargraph , and data recorder.
- 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.

Specification

Model	DSO1202S	DSO1152S	DSO1122S	DSO1062S
Oscilloscope Mode				
Vertical System				
Bandwidth	200MHz	150MHz	120MHz	60MHz
Real-time Sample Rate	1GSa/s			
Equivalent Sample Rate	25GSa/s			
Record Length	Single-channel: Maximum 1M; Dual-channel: Maximum 512K			
SEC/DIV Range	2nS/div-2000S/div (in a 2, 4, 8 sequence)			
Horizontal System				
A/D Converter	8-bit resolution			
VOLTS/DIV Range	2mV/div~5V/div at input BNC			
Position Range	±50V(5V/div),±40V(2V/div~500mV/div), ±2V(200mV/div~50mV/div);±400mV(20mV/div~2mV/div)			
Rise Time at BNC	≤1.7ns	≤2.3ns	≤2.9ns	≤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 System				
Trigger Sensitivity(Edge Trigger Type)	DC: CH1/CH2(Typical) 1div from DC to 10MHz;1.5div from 10MHz to Full; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: Attenuates signals below 150kHz; Noise Reject: Reduces trigger sensitivity;			
Trigger Level Range	CH1,CH2: ±8 divisions from center of screen			
Hold off Range	100ns-10s			
Trigger Level Accuracy (signals having rise and fall times ≥20ns)	CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen)			
Edge	Trigger on the rising or falling edge			
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: 20ns-10s			
Alternate	Internal trigger on edge, pulse width, video or slope			
Measurement				
Cursors	Manual: The difference between voltage cursors ΔV ; the difference between time cursors ΔT ; $1/\Delta T$ 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, RPRESshoot, 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 Current	AC: 10A, DC: 10A
Input Impedance	10 MΩ
Isolation	
The float voltage between BNC and Ground	600V CATIII, 1000V CAT II
The float voltage between each Channel	600V CATIII, 1000V CAT II
The float voltage between Multimeter and Ground	1000V
between input Ports directly	400V CAT II
Input by 10:1 probe	600V CATIII, 1000V CAT II
The Max input voltage of Multimeter	The float voltage between Multimeter and Ground
Other	
Display Type	Right angle 5.6 16-digit color LCD
Display Resolution	640*480 dots
Display Contrast	16 gears, with the progress bar to show adjustment
Interface	USB host and USB slave, LAN Optional
Voltage	DC Input:12--17VDC, 2000mA
Size	245 x 163 x 52 (mm)
Weight	1KG

Software Support

Operating System: Windows NT, Windows 2000, Windows XP, VISTA, Windows 7.