

HDS Series

Handheld Series Digital Storage Oscilloscope



Main Features:

- 1. 2 in 1(DSO+Multimeter)
- 2. Autoscale
- 3. 18 automatic measurements
- 4. Bandwidth: 20MHz
- 5. Support USB for data transmission to PC
- 6. Replaceable li-ion battery back up (6 hours)

Dimension: 180mm(L)×115mm(H)×40mm(W)
Weight: 645g



Performance characteristics

Model	HDS1021M HOT!
Bandwidth	20MHz
Sample rate(Real time)	100MS/s
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5
Rise time (at input, typical)	≤17.5ns
Channels	Single
Display	3.5"color display (320×240 pixels)
Input impedance	1MΩ±2%, in parallel with 18pF±5pF
Probe attenuation factor	1X, 10X, 100X, 1000X
Max. input voltage	400V (PK-PK) (DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)
Record length	Max.6000 points on each channel
Interpolation	(sin x)/x
Input coupling	DC, AC, GND
Acquisition modes	Sample, Peak Detect and Average
Vertical resolution (A/D)	8 bit
Vertical sensitivity	5mV/div~5V/div(at input)
DC gain accuracy	±3%

Performance characteristics

Model		HDS1021M 		
DC accuracy(Average)		Average>16:±(3% reading+0.05div) for ΔV		
Trigger type		Edge, Video		
Trigger mode		Auto, Normal, Single		
Trigger level		±6 divisions from screen center		
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 _f ,Delay A→B _L		
Waveform math		Unavailable		
Waveform storage		4 waveforms		
Lissajou's figure	Bandwidth	Unavailable		
	Phase difference	Unavailable		
Communication interface		USB		
Cymometer		Available		
Power supply		100V-240V AC, 50/60Hz		
Li-ion battery		7.4V, 6 hours operation		

Multimeter Specifications

Full scale reading	3 ³ / ₄ digits (Max.4000-count)	Diode	0V-1.5V
Input Impedance	10MΩ	On/Off measurement	<50(±30) beeping
Capacitance	51.2nF-100uF:±(3%±3 digit)		
Voltage	VDC:400mV,4V, 400V: ±(1±1digit) Max.input:DC 1000V, VAC:4V,40V,400V:±(1±3digit) Frequency:40Hz-400Hz, Max:input:AC 750V(virtual value)		
Current	DCA:40mA, 400mA:±(1.5%±1 digit) 20A:±(3%±3digit) DAA:40mA±(1.5%±3digit) 400mA:±(2±1 digit) 20A:±(3%±3digit)		
Impedance	400Ω:±(1%±3digit), 40Ω		

OWON continues to improve products and reserves the rights to change specifications without advance notice. For latest ones,please refer to our website.

Application

- Electronic circuit debugging
- Circuit testing
- Design and manufacture
- Education and training
- Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final.

