

HDS-N Series

New Handheld Series Digital Storage Oscilloscope



Creative design of Silica gel key offer easy touching and friendly operation
Creative design of separate shortcut key to simplify operation steps

Main Features:

1. 2 in 1(DSO+Multimeter)
2. Autoscale
3. FFT
4. 20 automatic measurements
5. Bandwidth: 20MHz-100MHz
6. Support USB for data transmission to PC
7. Replaceable li-ion battery back up (6 hours)
8. USB flash disk storage
9. Waveform record & replay(HDS2062M-N, HDS3102M-N)

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



Performance characteristics

Model	HDS1022M-N	HDS2062M-N	HDS3102M-N HOT!
Bandwidth	20MHz	60MHz	100MHz
Sample rate(Real time)	100MS/s	250MS/s	500MS/s
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5	5ns/div~100s/div,step by 1~2~5	
Rise time (at input, typical)	≤17.5ns	≤5.8ns	≤3.5ns
Display	3.7 inch color display with TFT panel(640×480 pixels, 65535 colors)		
Channels	Dual		
Input impedance	1MΩ±2%, in parallel with 20pF±5pF	1MΩ±2%, in parallel with 15pF±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 (2 channels simultaneously)		
Vertical sensitivity	5mV/div~5V/div(at input)		
DC gain accuracy	±3%		

Performance characteristics

Model	HDS1022M-N	HDS2062M-N	HDS3102M-N HOT!
DC accuracy(Average)	Average>16:±(5% reading+0.05div) for ΔV		
Trigger type	Edge, Video, Alternate		
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,Delay A→B		
Waveform math	+, -, ×, ÷, FFT		
Waveform storage	4 waveforms		
Lissajou's figure	Bandwidth	20MHz	60MHz
	Phase difference	±3 degrees	
Communication interface	USB		
Cymometer	Unavailable	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) 10A:±(3%±3digit) DAA:40mA±(1.5%±3digit) 400mA:±(2±1 digit) 10A:±(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.

