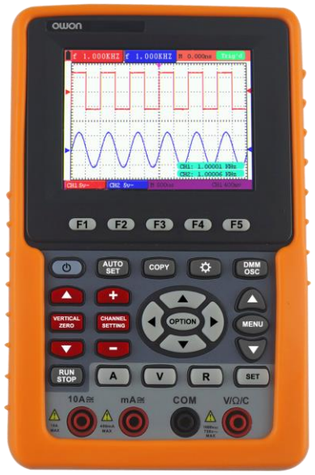


HDS-N Series

Handheld Digital Storage Oscilloscope

+ 2 in 1 (DSO + Multimeter)
+ Auto-scale function
+ FFT function
+ 20 group automatic measurement options
+ Bandwidth : 20MHz
+ USB data transmission supported
+ Rechargeable Li-ion battery
+ Waveform record andreplay
+ Multimeter newly supported SCPI

Performance Specifications

Model	HDS1021M-N
Bandwidth	20MHz
Sample Rate (real time)	500MS/s
Horizontal Scale (s/div)	5ns/div ~ 100s/div, step by 1 ~ 2.5 ~ 5
Rise Time (at input, typical)	≤ 17.5ns
Display	3.7 inch color display with TFT panel (640 × 480 pixels, 65535 colors)
Channel	single
Input Impedance	1MΩ ± 2%, in parallel with 20pF ± 5pF
Record Length	max 6K points on each channel
Interpolation	sin (x) / x
Probe Attenuation Factor	1X，10X，100X，1000X
Input Coupling	DC, AC, and GND
DC Accuracy (average)	average >16 : ±(5% reading + 0.05div) for △V
Vertical Sensitivity	5mV/div ~ 5V/div (at input)
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)
Max Input Voltage	400V (PK - PK) (DC + AC, PK - PK, 1MΩ input impedance, probe attenuation 10 : 1), CAT II
Trigger Type	Edge, Video, Alternate
Trigger Mode	Auto, Normal, Single
Trigger Level	±6 divisions from screen center
Acquisition Mode	Sample, Peak Detect, and Average
DC Gain Accuracy	±3%
Automatic Measurement	Vpp, Vavg, Vrms, Freq ,Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Pre-shoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Delay A→B, Delay A→B
Waveform Math	+, −, ×, ÷, invert, FFT
Waveform Storage	4 waveforms
Lissajous Figure	Bandwidth: full bandwidth; Phase Difference: ±3 degrees
Communication Interface	USB
Power Supply	100V-240V AC, 50/60Hz
Li-ion Battery	7.4V, 6 hours operation
Dimensions (W × H × D)	180 × 115 × 40 (mm)
Weight (without package)	645 g

Multimeter Specifications

Full Scale Reading	$3\frac{3}{4}$ digit (max 4000-count)	**diode**	0V-1.5V
Input Impedance	10 MΩ	**On / Off Test**	< 50 (± 30) beeping
Voltage	VDC : 400mV, 4V, 40V, 400V, 1000V : ±(1% ± 1 digit); max input : DC 1000V VAC : 4V, 40V, 400V : ±(1% ± 3 digits), 750V : ±(2% ± 3 digits); Frequency : 40Hz - 400Hz; max input : AC 750V (virtual value)		
Current	DC : 40mA, 400mA : ±(1.5% ± 1 digit), 20A : ±(3% ± 3 digits) AC : 40mA : ±(1.5% ± 3 digits), 400mA : ±(2% ± 1 digit), 20A : ±(5% ± 3 digits)		
Impedance	400Ω : ±(1% ± 3 digits), 40KΩ - 4MΩ : ±(1% ± 1 digit), 40MΩ : ±(1.5% ± 3 digits)		
Capacitance	51.2nF - 100uF : ±(3% ± 3 digits)		

Specifications subject to change without prior notice.

Application

electronic circuit debugging　circuit testing　design and manufacture
education and training　automobile maintenance and testing

Accessories

The accessories subject to final delivery.


Power Cord


CD Rom


USB


Probe


Probe Adjust


Multimeter Lead


Adapter


5V, 1KHz Output



Manual


Capacitance Ext Module


Soft Bag


Metal Case (optional)