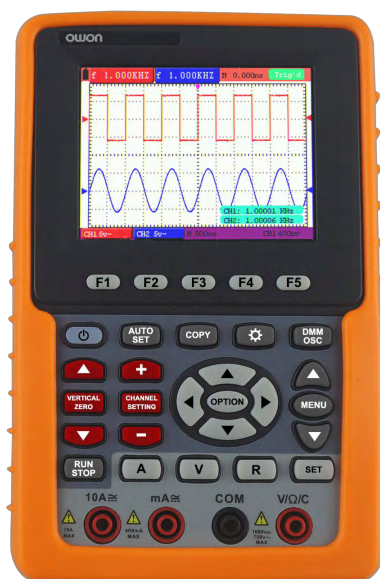




HDS1021M-N

Hand-held Digital Storage Oscilloscope

- + 2 in 1 (DSO + Multimeter)
- + Auto-Set Function
- + Math functions with FFT
- + Peak Detect function for 50nS Glitch Capture
- + 20 Automatic Measurements
- + Bandwidth : 20MHz
- + USB communications
- + Rechargeable Li-ion battery (up to 6 hours backup)
- + Waveform Store and Recall
- + SCPI Support

+ 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" colour TFT display (640 × 480 pixels)
Channel	Single
Input Impedance	1MΩ ± 2%, in parallel with 18pF ± 5pF
Record Length	6K points
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 ΔV
Vertical Sensitivity	5mV/div ~ 5V/div (at input)
Vertical Resolution (A/D)	8 bits
Max Input Voltage	400V (PK - PK) (DC + AC, PK - PK, 1MΩ input impedance, probe attenuation 10 : 1), CAT II
Trigger Type	Edge, and Video
Trigger Mode	Auto, Normal, and 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, Preshoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Delay A→B  , Delay A→B 
Waveform Storage	4 waveforms
Communication Interface	mini-USB , mini-RS232
Power Supply	100 - 240V AC, 50/60Hz (External Power Adapter)

Li-ion Battery	7.4V, 6 hours operation
Dimensions (W × H × D)	115 × 180 × 40 (mm)
Weight (without package)	645 grams

+ Multimeter Specifications

Full Scale Reading	3 $\frac{3}{4}$ digits (max 4000-count)	Diode Test	0 - 1.5V
Input Impedance	10MΩ	Continuity Test	< 50Ω (± 30) (with sound)
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), 10A : ±(3% ± 3 digits) AC : 40mA : ±(1.5% ± 3 digits), 400mA : ±(2% ± 1 digit), 10A : ±(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)		

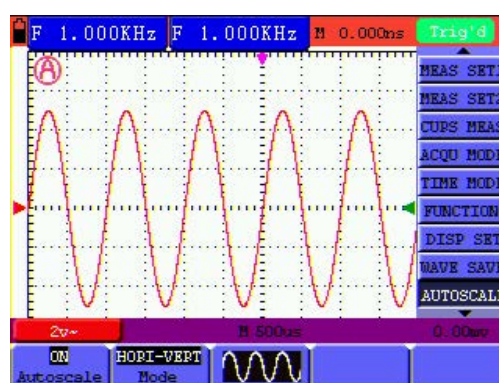
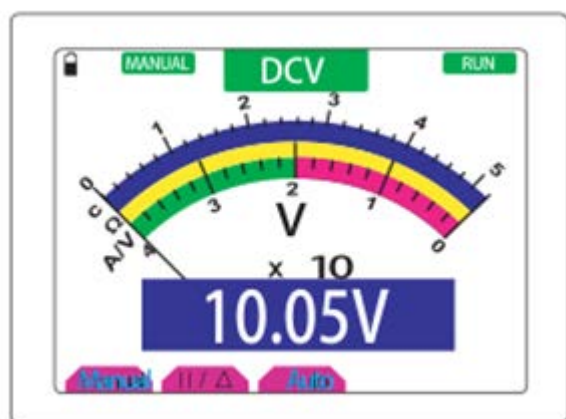
Specifications subject to change without prior notice

+ Applications

Electronic Circuit Debug
Education & Training

Circuit Testing
Automobile Maintenance & Testing

Design & Manufacture
Site Testing



+ Accessories

The accessories subject to final delivery



Power Cord



CD Rom



USB Cable



Probes



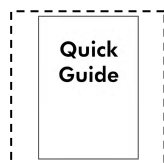
Probe Adjuster



Multimeter Leads



Mains Adapter



Quick Guide



5V, 1KHz Output



Ext Capacitance
Module



Soft Bag



Metal Case
(optional)