



## HDS Series

### 1-channel Handheld Digital Storage Oscilloscope

- + 2 in 1 (DSO + Multimeter)
- + Auto-scale function
- + FFT function
- + 20 group automatic measurement options
- + Bandwidth : 20MHz - 100MHz
- + USB data transmission supported
- + Rechargeable Li-ion battery (6 hours' backup)
- + Waveform record and replay
- + Multimeter newly supported SCPI

### + Performance Specifications

Model	HDS1021M-N	HDS2061M-N	HDS3101M-N
Bandwidth	20MHz	60MHz	100MHz
Sample Rate (real time )	500MS/s		1GS/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" color TFT display (640 × 480 pixels)		
Channel	single		
Input Impedance	1MΩ ± 2%, in parallel with 18pF ± 5pF	1MΩ ± 2%, in parallel with 15pF ± 5pF	
Record Length	24K 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	100V-240V AC, 50/60Hz		

Li-ion Battery	7.4V, 6 hours' operation
Dimensions (W × H × D)	115 × 180 × 40 (mm)
Weight (without package)	645.00 g

### + Multimeter Specifications

Full Scale Reading	3 $\frac{3}{4}$ digits (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), 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.

### + Application

electronic circuit debugging  
education and training

circuit testing      design and manufacture  
automobile maintenance and testing

### + Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



USB Cable



Probe



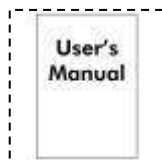
Probe Adjust



Multimeter Lead



Adapter



Manual



5V, 1KHz Output



Capacitance Ext  
Module



Soft Bag



Metal Case  
(optional)