



HDS1022M-I Handheld DSO w/ Channel Isolation

- + 2 in 1 (DSO + Multimeter)
- + with good **ISOLATION** between channels
- + Auto-scale function
- + FFT function
- + 20 group automatic measurement options
- + Bandwidth : 20MHz
- + USB data transmission supported
- + Rechargeable Li-ion battery
- + Multimeter newly supported SCPI

+ Performance Specifications

Model	HDS1022M-I
Bandwidth	20MHz
Sample Rate	100MS/s
Rise Time (at input, typical)	≤17.5ns
Record Length	6K points
Channel	dual, insulated ground of 1000 : 1
Display	3.7" color TFT LCD, 640 x 480 pixels
Floating Meas. Channel	insulated input ground between multimeter / oscilloscope mode
Input Coupling	DC, AC, and GND
Input Impedance	1MΩ±2%, in parallel connection with 15pF± 5pF
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5
Interval (ΔT) Accuracy	single: ±(1 interval time + 100ppm x reading + 0.6ns), average>16: ±(1 interval time + 100ppm x reading + 0.4ns)
Vertical Sensitivity	5mV/div - 5V/div (at input)
Vertical Resolution	8 bits
Max Input Voltage	400V (DC + AC / PK - PK, 1MΩ input impedance, probe attenuation in 10 : 1)
Trigger Type	Edge: rising edge, falling edge Video: line, field, random line, odd / even fields Alternate:
Trigger Mode	Auto, Normal, and Single
Automatic Measurement	Vpp, Vavg, Vrms, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B↑, Delay A→B↓, +Width, -Width, +Duty, -Duty
DC Accuracy (average)	average>16: ±(5% reading 0.05 div) for ΔV
Waveform Math	+, -, *, /, FFT, invert
Waveform Storage	4 waveforms

Lissajous Figure	Bandwidth	full bandwidth
	Phase Difference	±3 degrees
Cursor Measurement		ΔV, and ΔT between cursors
Communication Interface		USB host, and USB device
Battery		built-in Li-ion battery, 7.4V / 3500mAh
Dimension (W / H / D)		180 x 113 x 40 mm
Weight		645 g

+ Multimeter Specifications

Full Scale Reading	3 ³ / ₄ digit (max 4000-count)	diode	0V-1.5V
Input Impedance	10 MΩ	On / Off Test	< 50 (± 30) beeping
Voltage	VDC : 400mV, 4V, 400V : ±(1% ± 1 digit); max input : DC 400V VAC : 4V, 40V, 400V : ±(1% ± 3 digits), Frequency : 40Hz - 400Hz; max input : AC 750V (virtual value)		
Current	DCA: 40mA, 400mA: ±(1.5% ±1 digit), 10A: ±(3% ± 3 digits) ACA: 40mA: ±(1.5% ± 3 digit); 400mA: ±(2 ± 1 digit); 10A: ±(3% ± 3 digits)		
Impedance	400Ω: ±(1% ± 3 digits); 4KΩ / 40KΩ / 400 KΩ / 4MΩ: ±(1% ± 1 digit); 40MΩ: ±(1.50% ± 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
automobile maintenance and testing

design and manufacture
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)