

OWON Classic Scopemeter -- HDS



Main Features:

1. Autoscale
2. 20 Automatic Measurements
3. 3. 2 in 1 (DSO + Multimeter)
4. Bandwidth: 20MHz-60MHZ
5. Support USB for data transmission to PC
6. TFT true color display
7. Replaceable li-ion battery back up (6 hours)

Application:

Design and Debug	Circuit function test
Education	Technical training
Maintenance testing	

Oscilloscope Specification

Model Name	HDS1021M 	HDS1022M	HDS2062M
Bandwidth	20MHz	20MHz	60MHz
Sample Rate (Real time)	100MS/s	100MS/s	250MS/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
Display	3.5" color TFT display (320×240 pixels)	3.7" color TFT display (640×480 pixels)	3.8" color TFT display (320×240 pixels)
Channels	Single	Dual	
Record length	Max. 6000 points on each channel		
Interpolation	(sin x)/x		
Probe attenuation factor	1X, 10X, 100X, 1000X		
Input coupling	DC, AC, GND	DC, AC	
DC accuracy(Average)	Average>16:±(3% reading +0.05div) for ΔV	Average>16:±(5% reading+0.05div) for ΔV	
Vertical Sensitivity	5mV/div~5V/div (at input)		
Vertical resolution (A/D)	8 bit		
Max. Input Voltage	400V (PK-PK) (DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1) CAT II		
Trigger Type	Edge, Video		
Trigger Mode	Auto, Normal, Single		
Trigger level	±6 divisions from screen center		
Acquisition modes	Sample, Peak Detect and Average		
DC gain accuracy	±3%	±5%	
Automatic Measurement	Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot, Preshoot,Risetime,Falltime,+Width,-Width,+Duty,-Duty, Delay A→B  、 Delay A→B 		
Waveform math	Unavailable	+, −, ×, ÷	
Waveform storage	4 waveforms		
Lissajou's figure	Bandwidth	Unavailable	20MHz 60MHz
	Phase difference	Unavailable	±3 degrees
Communication interface	USB		
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	10 MΩ	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) 20A:±(3%±3digit) DAA:40mA±(1.5%±3digit) 400mA:±(2±1digit) 20A:±(3%±3digit)		
Impedance	400Ω:±(1%±3digit), 40Ω		

General specifications		
Interface	USB Data Cable (Transfer waveform data to a PC)	
Power	Supply:100V~240V AC,50/60Hz DC input: 8.5VDC, 1500mA. Battery: 6 hours	
Dimension	180mm x 115mm x 40mm	
Weight	455g	645g

Made in China