

HDS Series

Handheld Digital Storage Oscilloscope

1. Autoscale
2. 2 in 1(DSO+Multimeter)
3. Bandwidth:20MHz-60MHz, Sample Rate: 100MS/s-250MS/s
4. Support USB for data transmission
5. Replaceable li-ion battery back up
6. 20 Automatic Measurements

Application:
Electronic circuit debugging
Circuit testing
Design and manufacture
Education and training
Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final

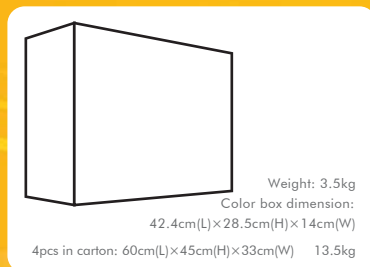


Package optional

Compact package
(Soft bag without metal case)



Standard package
(Metal case without soft bag)



Performance characteristics



Model	HDS1021M(Single)	HDS1022M	HDS2062M
Bandwidth	20MHz	20MHz	60MHz
Sample rate(real time)	100MS/s	100MS/s	250MS/s
Display	3.8 inch color display with TFT panel(320×240 pixels)		
Dimension	180mm(L)×113mm(H)×40mm(W)		
Weight	645g		

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Performance characteristics

Model	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
Channels	Single	Dual	
Input coupling	DC, AC, GND		DC, AC
Acquisition modes	Sample, Peak Detect and Average		
Input impedance	1MΩ±2%, in parallel with 20pF±3pF	1MΩ±2%, in parallel with 20pF±5pF	
Probe attenuation factor	1X, 10X, 100X, 1000X		
Max. input voltage	400V (PK-PK) (DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)		
Record length	Max.6000 points on each channel		
Interpolation	(sin x)/x		
Vertical resolution (A/D)	8 bit		
Vertical sensitivity	5mV/div~5V/div(at input)		
DC gain accuracy	±3%	±5%	
DC accuracy(Average)	Average>16:±(5% reading+0.05div) for ΔV		
Trigger type	Edge, Video		
Trigger level	±6 divisions from screen center		
Trigger mode	Auto, Normal, Single		
Cursor measurement	ΔV and ΔT between cursors		
Automatic measurement	Vpp, Vavg, RMS, Frequency, Period, Vmax, Vmin, Vtop, Vbase, Width, Overshoot, Pre-shoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Delay A→B, Delay A→B		
Waveform Math	Unavailable	+, -, ×, ÷, Invert	
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 $\frac{3}{4}$ digits (Max.4000-count)
Input Impedance	10 MΩ
Max input Voltage	AC: 400V, DC: 400V
Max input Current	AC: 20A, DC: 20A

OWON continues to improve products and reserves the rights to change specifications without advance notice. For latest ones, please refer to our website.

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Please contact local distributor for further information.



HDS-N Series

Handheld Digital Storage Oscilloscope



Performance characteristics

Model	HDS1022M-N	HDS2062M-N	HDS3102M-N
Bandwidth	20MHz	60MHz	100MHz
Sample rate(Real time)	100MS/s	250MS/s	500MS/s
Horizontal Scale(S/div)	5ns/div~100s/div,step by 1~2.5~5		
Rise time (at input, typical)	≤17.5ns	≤5.8ns	≤3.5ns
Channels	Dual		
Input coupling	DC, AC, GND		
Acquisition modes	Sample, Peak Detect and Average		
Input impedance	1MΩ±2%, in parallel with 20pF±5pF		1MΩ±2%, in parallel with 15pF±5pF
Probe attenuation factor	1X, 10X, 100X, 1000X		
Max. input voltage	400V (PK-PK) (DC + AC PK-PK, 1MΩ input impedance, Probe attenuation 10:1)		
Record length	Max.6000 points on each channel		
Interpolation	(sin x)/x		
Vertical resolution (A/D)	8 bit (2 channels simultaneously)		
Vertical sensitivity	5mV/div~5V/div(at input)		
DC gain accuracy	±5%	±3%	
DC accuracy(Average)	Average>16:±(5% reading+0.05div) for ΔV		
Trigger type	Edge, Video, Alternate		
Trigger level	±6 divisions from screen center		
Trigger mode	Auto, Normal, Single		
Cursor measurement	ΔV and ΔT between cursors		
Automatic measurement	Vpp, Vavg, RMS, Frequency, Period, Vmax, Vmin, Vtop, Vbase, Width, Overshoot, Pre-shoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Delay A→B \int , Delay A→B \int		
Waveform Math	+, -, ×, ÷, Invert, FFT		
Waveform storage	4 waveforms		
Lissajou's figure	Bandwidth	20MHz	60MHz
	Phase difference	±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 $\frac{3}{4}$ digits (Max.4000-count)
Input Impedance	10 MΩ
Max input Voltage	AC: 400V, DC:400V
Max input Current	AC:10A, DC:10A

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