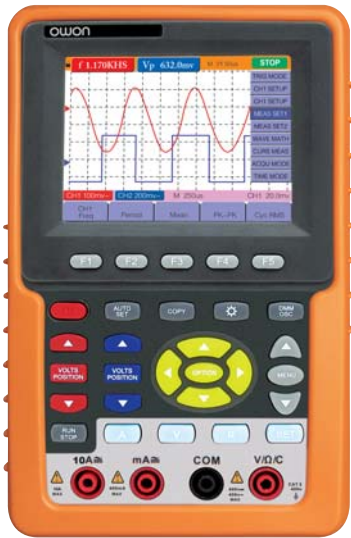


# NEW HANDHELD DIGITAL STORAGE OSCILLOSCOPE --NEW CHANGE,NEWSPACE



**HDS-N series**



1. 3.8 Inch COLOR DISPLAY WITH HIGH RESOLUTION
2. 2 IN 1 (MULTIMETER FUNCTION SUPPORT)
3. MINI DESIGN FOR EASY CARRYING
4. REPLACEABLE LI-ION BATTERY BACK UP(6H)
5. HARD PACKAGE FOR REPETITIOUS USING

#### New design:

Creative design of Silica gel key offer easy touching and friendly operation  
Creative design of separate shortcut key simplified operation steps

#### New feature:

USB Mass Storage Device      Support Alternative Trigger      Complete Video Trigger  
Optimize Trigger Sensitivity      Advance Whole Measure Precision

#### New package:

Extra Part: 1 pair of 100: 1 probe.



## PERFORMANCE CHARACTERISTICS

Bandwidth	HDS1022M-N: 20MHz	HDS2062M-N: 60MHz
Channels	2	
Display	3.8 Inch color display with TFT panel (320X240 pixels)	

### Acquisition

Mode	Sample, Peak detect, Averaging	
Sample rate (real time)	HDS1022M-N: 100MS/s	HDS2062M-N: 250MS/s

### Input

Input coupling	DC, AC
Input impedance	1MΩ ±2% in parallel with 20pF ± 5pF
Probe attenuation factors	1X, 10X, 100X, 1000X
Max. input voltage	400V(PK-PK) CAT II

### Horizontal system

Sampling range	HDS1022M-N: 10S/s ~ 100MS/s	HDS2062M-N: 10S/s ~ 250MS/s
Record length	Max. 6K points	
Time base range	HDS1022M-N: 5ns/div ~ 5s/div (step as 1~2.5~5) HDS2062M-N: 5ns/div ~ 5s/div (step as 1~2~5)	
Time base accuracy	100ppm	

### Vertical system

Vertical resolution	8 bits	
Vertical sensitivity	5mV/div ~ 5V/div (Input to BNC)	
Position range	±50V(500mV~5V) ±2V(5mV~200mV)	
Single bandwidth	Full bandwidth	
LF Respond (AC, -3dB)	≥5Hz (to BNC)	
Rising time (typical on BNC)	HDS1022M-N: ≤ 17.5 ns	HDS2062M-N: ≤ 5.8 ns
DC Gain accuracy	±5%	

## PERFORMANCE CHARACTERISTICS

## Trigger

Trigger type	Edge、Video
Trigger slope(Edge)	Rising、Falling
Trigger mode(Edge)	Auto, Normal, Single, Alternate
Trigger sensitivity (Edge)	DC coupling: CH1 and CH2: 1div(HDS1022M-N:DC~20M,HDS2062M-N: DC~60M) AC coupling: CH1 and CH2: 1div (50Hz~Full bandwidth)
Trigger level range (Edge)	±6 divisions from screen center
Trigger level accuracy (Edge)	±0.3 divisions
Trigger sync(Video)	Field、line
Trigger Sensitivity (Video)	2 div (PK-PK)
Line/field frequency(Video)	Support NTSC, PAL and SECAM

## Measurement system

Automatic measurement	PK-PK, Averaging, RMS, Frequency, Cycle
Waveform math	+, -, ×, ÷, INVERTED
Waveform storage	4 waveforms, 4 settings
Lissajou's figure	Available

## Probe

## 1X

## 10X

Bandwidth	DC to 6MHz	DC ~ full bandwidth
Attenuation rate	1:1	10:1
Compensate range	10pf~35pf	10pf~35pf
Input impedance	1MΩ±2%	10MΩ±2%
Input capacitance	85pf~115pf	14.5pf~17.5pf
Input voltage	150V DC	300V DC

## Adapter

Output voltage	8.5 V DC
Output current	1500mA

## Li-ion battery

7.4V, 3500mA

## Power supply

Voltage	100 ~ 240 V AC, 50-60Hz, CATII
Fuse	1A, T class, 250V

## DIGITAL MULTIMETER CHARACTERISTICS

Input impedance	10MΩ
Voltage	DCV: 400mV,4V,40V,400V: ±(1%±1 digit) ACV: 4V,40V,400V: ±(1%±3 digit) Frequency: 40Hz~400Hz
Current	DCA: 40mA, 400mA: ±(1.5%±1 digit)      10A: ±(5%±3 digit) ACA: 40mA±(1.5%±3digit) 400mA: ±(2%±1 digit)      10A: ±(5%±3 digit)
Impedance	400Ω: ±(1%±3digit) 4kΩ,40kΩ, 400kΩ, 4MΩ : ±(1%±1 digit) 40MΩ: ±(1.5%±3digit)
Capacitance	51.2nF ~ 100uF: ±(3% ±3 digit )
Diode	0V ~ 1.5V
On/off measurement	<50Ω (±30Ω ) beeping

ACCESSORIES: 1 pair of 1:1(10:1) passive probe、 Probe adjust pen、 1 pair of multimeter lead  
Current measurement extend module、 Small capacitance measurement module  
USB cable (RS232 optional)、 Adapter、 Instruction manual、 Driver CD 、 Metal case