



One machine in hand, worry-free testing

Suitable for outdoor maintenance, rapid on-site measurement, automobile maintenance, power detection, etc.

Mobile phone body, three-in-one function

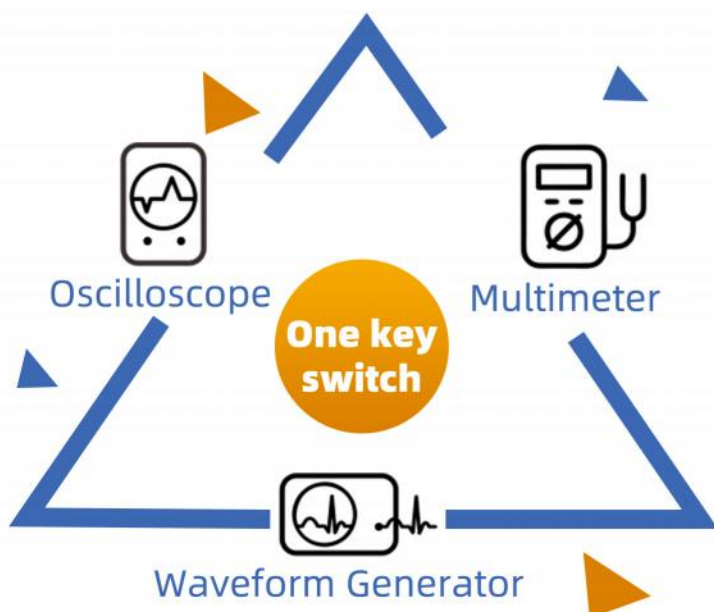
HDS200 Series 2-CH Handheld Oscilloscope

- Oscilloscope + multimeter + waveform generator, multifunction in one
- 3.5-inch high-resolution, high-contrast color LCD display, suitable for outdoor use
- 18650 lithium battery power, providing ≥ 4 hours working time
- USB Type-C interface, support power bank, support PC software connection
- Self-calibration function
- SCPI supported, facilitate secondary development

Model	Bandwidth	Sample Rate	Multimeter	Signal Generator
HDS242	40MHz	250MS/s	20000 counts	/
HDS242S	40MHz	250MS/s	20000 counts	25MHz
HDS272	70MHz	250MS/s	20000 counts	/
HDS272S	70MHz	250MS/s	20000 counts	25MHz
HDS2102	100MHz	500MS/s	20000 counts	/
HDS2102S	100MHz	500MS/s	20000 counts	25MHz
HDS2202	200MHz	1GS/s	20000 counts	/
HDS2202S	200MHz	1GS/s	20000 counts	25MHz

Instrument TRANSFORMERS

variety of functions in one



FUNCTION



Oscilloscope

Max 10,000 wfms/s waveform refresh rate

- + Dual channels input, bandwidth up to 200 MHz, max. real-time sampling rate 1GSa/s
- + Max 8k record length
- + Cursor measurement function
- + Multiple auto measurement functions
- + XY function
- + One-key auto set function, easy to detect and debug



Multimeter

20,000 counts, true RMS

- + Voltage, current, resistance, diode, capacitance measuring, and continuity test
- + Auto range function, easy to detect and debug
- + Max AC 750V, DC 1000V input voltage
- + Independent input of multimeter and oscilloscope
- + Reading hold function
- + Relative measurement function



Waveform Generator

Only for HDS242S, HDS272S, HDS2102S, HDS2202S

Max 25MHz frequency output

- + Output sine, square, ramp, pulse, and built-in special waveforms
- + 0.1Hz frequency resolution
- + 14-bit vertical resolution, 125MSa/s high sampling rate
- + 8k waveform length
- + Max 5Vpp output amplitude

Small size, powerful functions

Waveform generator output



Oscilloscope input



Plastic shell design of the BNC makes the test safer



Calibration signal:
1kHz square wave
signal output

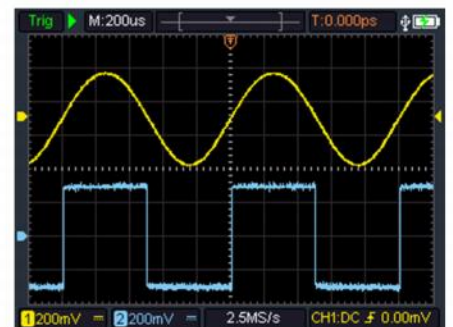
Charging and communication
interface

198mm

38mm

96mm

Integrated encapsulation
design, not easy to peel
off after long-term use,
and the hand feel is better.



3.5-inch (320×240) high-resolution
TFT color LCD screen, clear and
delicate display for observing
waveform details.



Multimeter input connectors

Approx. 0.6 kg (main device, without battery)

Excellent Power Management

A single battery can supply power normally.
Easy battery replacement.



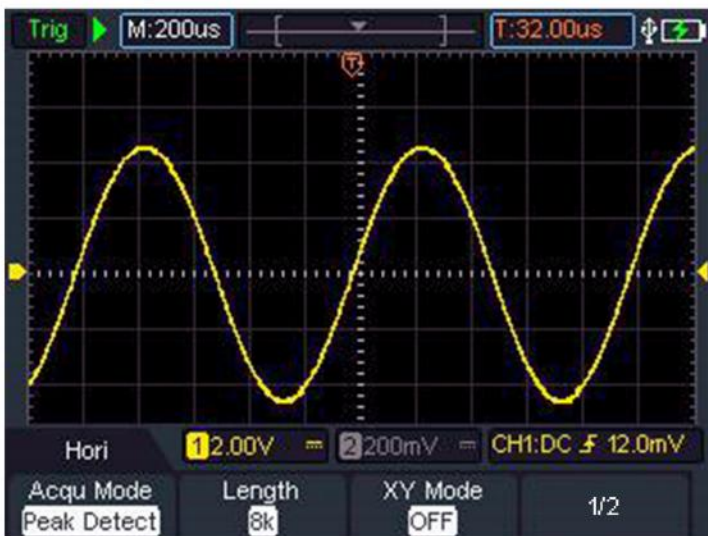
USB Type-C interface can be charged by an adapter or
a power bank, and supports PC software connection.



Hangable bracket, saving working space



Excellent oscilloscope performance



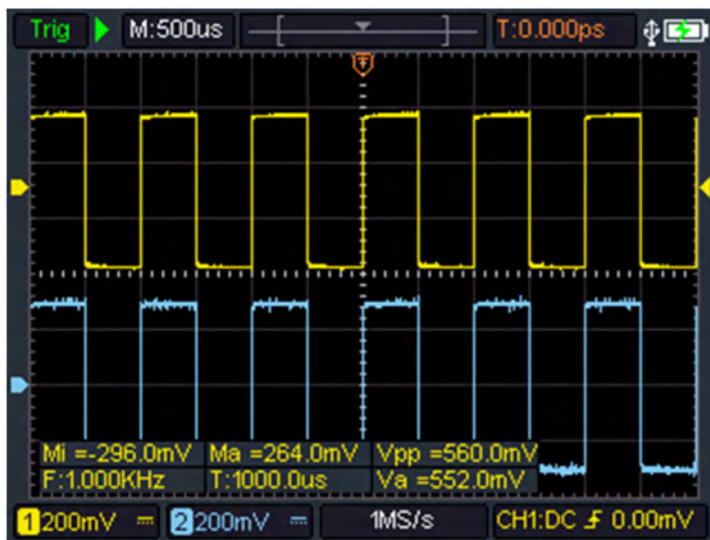
Two acquisition modes

Peak detect is used for the detection of the jamming burr and the possibility of reducing the confusion.



High refresh, deep storage

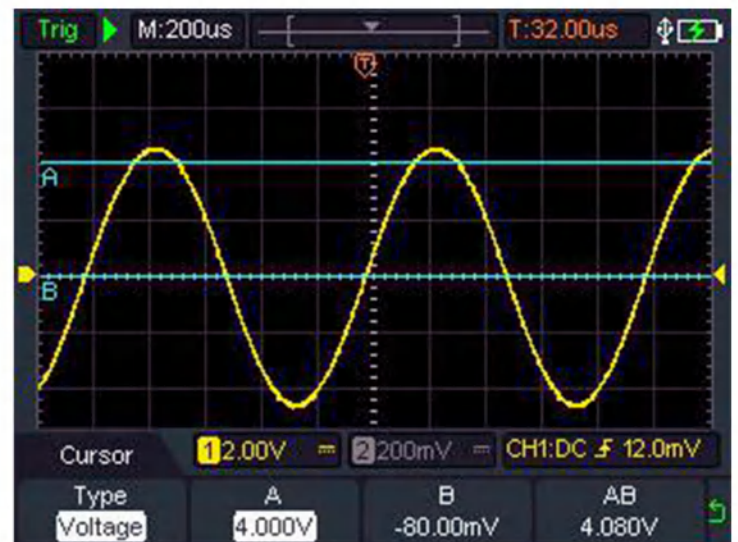
Max 10,000 wfms/s refresh rate, 8k record length, easy to capture exceptional and low probability events.



7 kinds of auto measurement

Frequency, Period, Amplitude, Max, Min, Mean, and PK-PK.

Max 6 auto measurements can be displayed on the screen at the same time.



Cursor measurement function

supports measuring the voltage difference between cursors (ΔV) and the time difference between cursors (ΔT).



Save function

Save 4 settings, 4 reference waveforms, 4 waveform images, 4 CSV waveform files.

The reference waveform can be displayed on the same screen as the measured waveform, convenient for waveform comparison.

Connect to the computer through the USB Type-C interface, the computer can recognize the oscilloscope as a USB flash drive, and you can access the images or CSV waveform files to view, analyze or share the waveform data.

20,000 Counts Multimeter with True RMS

Support measuring voltage, current, resistance, diode, capacitance, and continuity test

20,000 counts, high-precision professional multimeter, support relative value measurement.





Support 8 built-in special waveforms, including Sinc, Bessely, Besselj, StairUp, StairUpDown, StairDown, AttALT, AmpALT.

「Oscilloscope」 Specifications

Model	HDS242	HDS272	HDS2102	HDS2202	HDS242S	HDS272S	HDS2102S	HDS2202S
Bandwidth	40MHz	70MHz	100MHz	200MHz	40MHz	70MHz	100MHz	200MHz
Channels	2-CH Oscilloscope				2-CH Oscilloscope+1-CH Generator			
Sample Rate	250MSa/s		500MSa/s	1GSa/s	250MSa/s		500MSa/s	1GSa/s
Acquisition Model	Normal, Peak detect							
Record Length	8K							
Display	3.5-inch LCD							
Waveform Refresh Rate	10,000 wfms/s							
Input Coupling	DC, AC, and Ground							
Input Impedance	1 MΩ±2%, in parallel with 16pF±10pF							
Probe Attenuation Factors	1X,10X,100X,1000X,10000X							
Max. input Voltage	400V (DC+AC, PK-PK, 1MΩ input impedance) (10:1 probe attenuation)							
Bandwidth Limit (typical)	20MHz							
Horizontal Scale	5ns/div - 1000s/div, step by 1 - 2 - 5		2ns/div - 1000s/div, step by 1 - 2 - 5		5ns/div - 1000s/div, step by 1 - 2 - 5		2ns/div - 1000s/div, step by 1 - 2 - 5	
Vertical Sensitivity	10mV/div - 10V/div							
Vertical Resolution	8 bits							
Trigger Type	Edge							
Trigger Modes	Auto, Normal, single							
Automatic Measurement	Frequency, Period, Amplitude, Max, Min, Mean, PK-PK							
Cursor Measurement	ΔV, ΔT, ΔT&ΔV between cursors							
Communication Interface	USB Type-C							

[Multimeter] Specifications (Standard)

Max. Resolution	20,000 counts
Testing Mode	Voltage, Current, Resistance, Capacitance, Diode ,and Continuity test
Input Impedance	10M Ω
Max Input Voltage	AC 750V, DC 1000V
Max Input Current	DC : 10A AC : 10A
Diode	0 - 2V

[Waveform Generator] Specifications (Only for HDS242S,HDS272S,HDS2102S,HDS2202S)

Frequency Output	Sine	0.1Hz - 25MHz
	Square	0.1Hz - 5MHz
	Ramp	0.1Hz - 1MHz
	Pulse	0.1Hz - 5MHz
	Arbitrary	0.1Hz - 5MHz
Sampling Rate	125MSa/s	
Channel	1-CH	
Amplitude Range	20 mVpp - 5 Vpp	
Waveform Length	8K	
Vertical Resolution	14bits	
Output Impedance	50 Ω	

The above parameters are subject to change without further notice, please refer to the official website update.

PRODUCT ACCESSORIES



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|---------------------------|----------------------|--------------------------------|-----------------------|--------------------|
| 1 Main device | 2 Bag | 3 Probe | 4 Probe Adjust | 5 USB Cable |
| 6 Multimeter Leads | 7 Quick Guide | 8 BNC to Alligator Clip | | |