



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 up to 6 hours working time
- USB Type-C interface, support power bank, support PC software connection
- Self-calibration function
- SCPI supported, facilitate secondary development

Instrument TRANSFORMERS

variety of functions in one



FUNCTION



Oscilloscope

Max 10,000 wfms/s waveform refresh rate

- + Dual channels input, bandwidth up to 70 MHz, max. real-time sampling rate 250MSa/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)

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

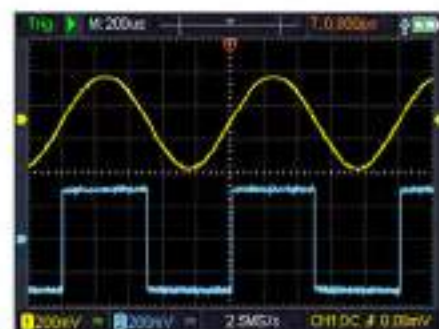
Charging and communication
interface

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

Ultra-low comprehensive power consumption less than 3W. Powered by 4400mAh lithium battery, work continuously for about 6 hours. A single battery can supply power normally. Easy battery replacement.



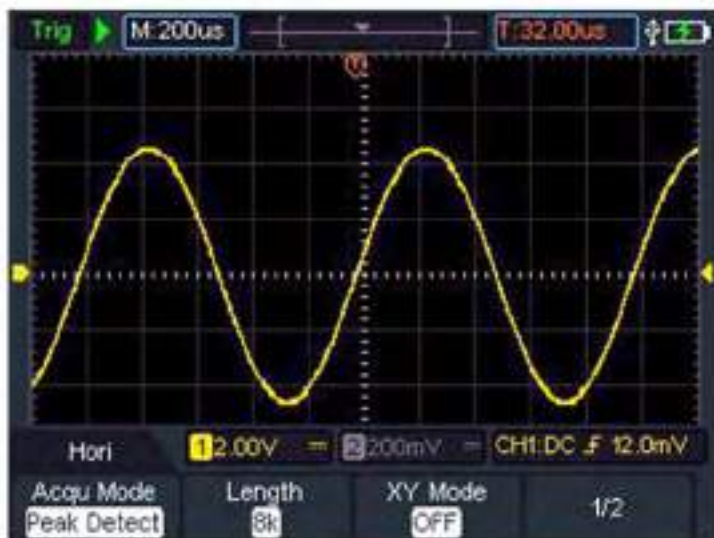
USB Type-C interface can be charged by an adapter or a power bank, and supports PC software connection.



Hangable bracket, saving working space



Excellent oscilloscope performance



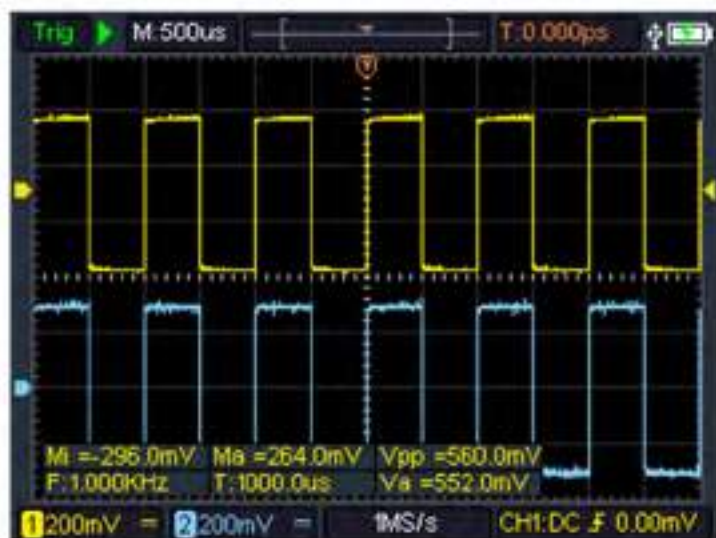
Two acquisition modes

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



High refresh, deep storage

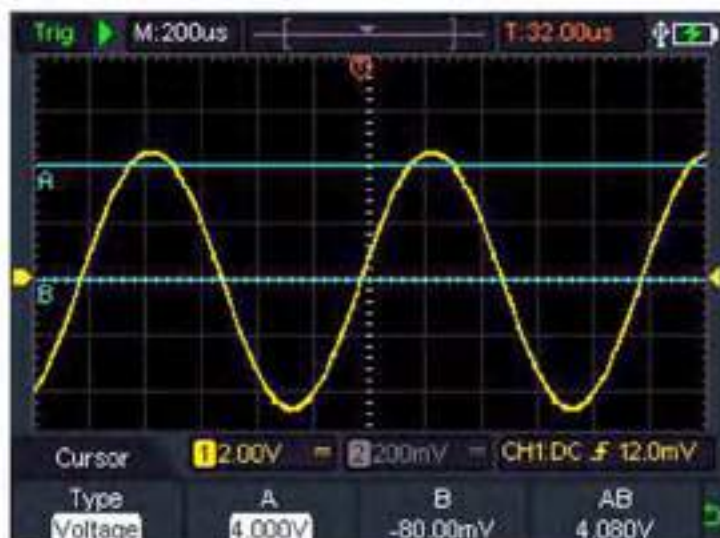
Max 10,000 wfms/s refresh rate, 8k record length, easy to capture exceptional and low probability events.



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.



Waveform Generator Functions (Only for HDS242S & HDS272S)



Output sine, square, ramp, pulse, and built-in special waveforms



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

PRODUCT SPECIFICATIONS

[Oscilloscope] Specifications

Model	HDS242	HDS272	HDS242S	HDS272S
Bandwidth	40MHz	70MHz	40MHz	70MHz
Channels	2-CH Oscilloscope		2-CH Oscilloscope+1-CH Generator	
Sample Rate	250MSa/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			
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)

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 | | |