



HDS25(S) Handheld Multi-Function Digital Oscilloscope

- + All-in-One: Oscilloscope + Multimeter + Waveform Generator
- + Oscilloscope: 25MHz bandwidth, 250MSa/s sampling rate, 8K memory depth
- + Multimeter: 4.5-digit multimeter supporting standard voltage, current, resistance, capacitance, diode, and continuity tests
- + Waveform Generator: 10 MHz output frequency, 125MSa/s sampling rate, 14-bit vertical resolution
- + Standard USB Type-C Interface: Supports power bank charging and PC communication
- + 3.5-inch LCD display

Model	Channel	Bandwidth	Sample Rate	Multimeter	Waveform Generator
HDS25	2	25MHz	125MSa/s (Dual channel)	20000 counts	/
HDS25S			250MSa/s (Single channel)		10MHz

Instrument

variety of functions in one

FUNCTION



Oscilloscope

Max 10,000 wfms/s waveform refresh rate

- + Dual channels input, bandwidth up to 25 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

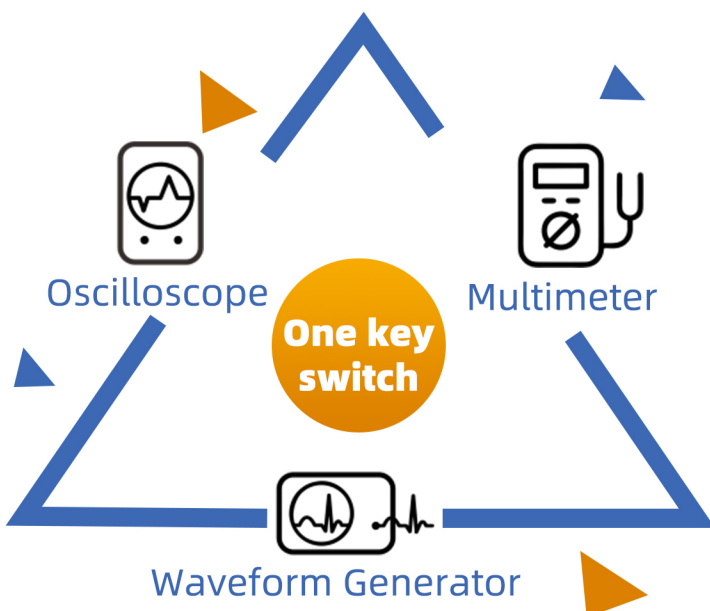


Waveform Generator

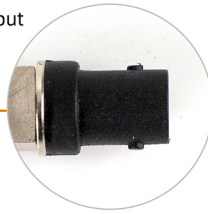
Only for HDS25S

Max 10MHz 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



Oscilloscope input Waveform generator output



Plastic shell design of the BNC makes the test safer



Calibration signal:
1kHz square wave
signal output

Charging and communication
interface



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



Multimeter input connectors

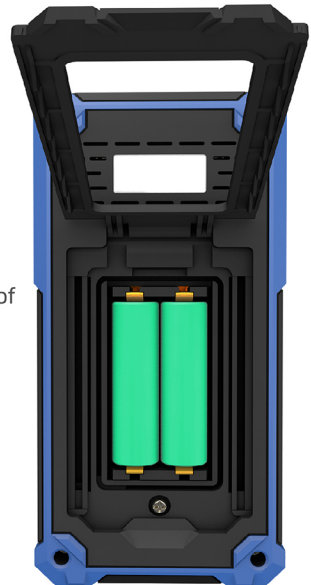
Approx. 0.6 kg (main device, without battery)

Excellent Power Management

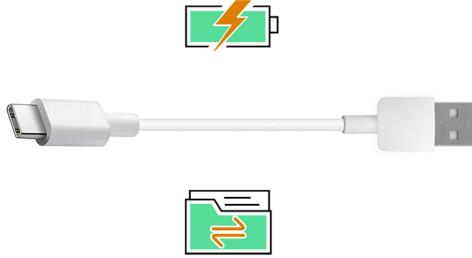
Low power consumption design, combined with 18650 lithium battery, brings longer battery life.

Can work continuously for 3-6 hours*.

* Based on Lillipu's standard experiments, the actual usage time of different models will vary.



The USB Type-C charging interface can be charged by an adapter or a power bank, and supports connection to a host computer.



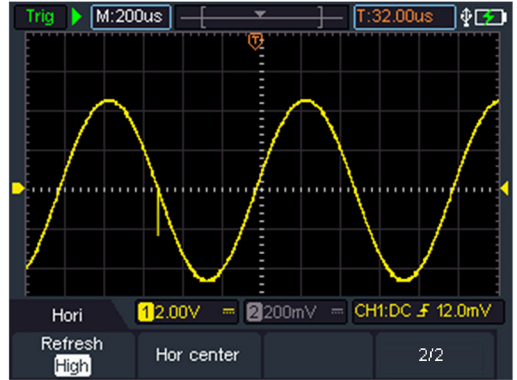
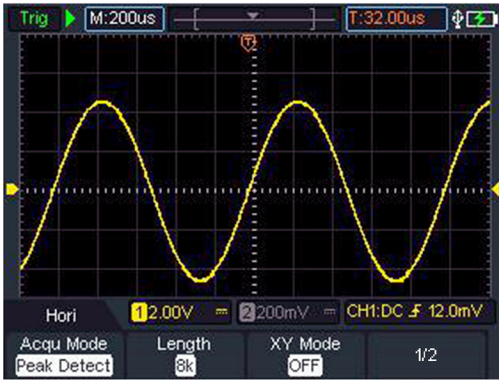
**Supports computer host computer,
can save waveform pictures and data**



Hangable bracket, saving working space



Excellent oscilloscope performance

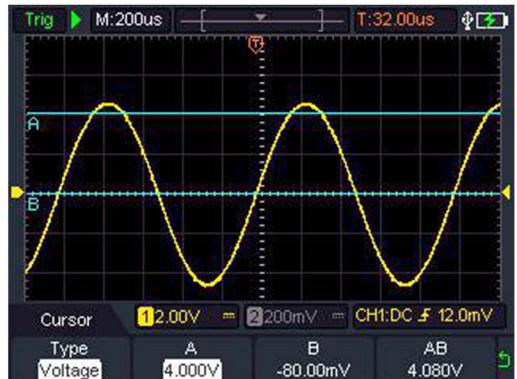
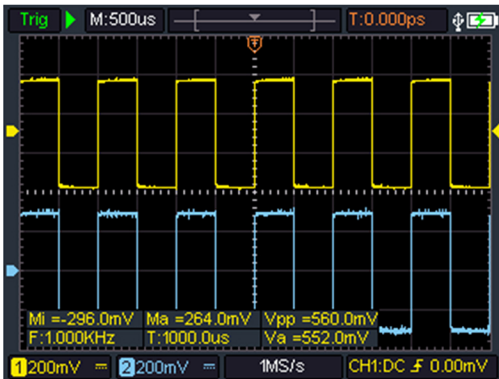


Two acquisition modes

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.



8 kinds of auto measurement

Frequency, Period, Amplitude, Max, Min, Mean, RMS 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

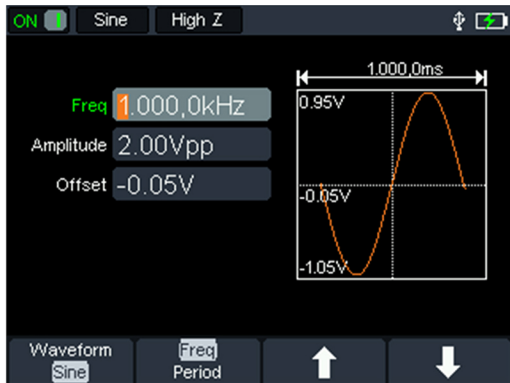
Save 4 settings, 4 reference waveforms, 4 waveform images, 4 CSV waveform files.

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

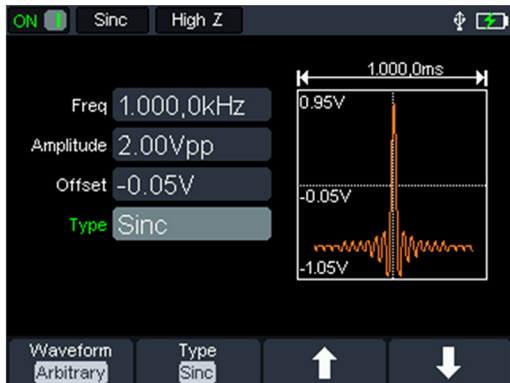
Connect to the computer through the USB Type-C interface, the computer can recognize the oscilloscope as a USB flash drive, and you can access the images or CSV waveform files to view, analyze or share the waveform data.

Waveform Generator Functions

Only for HDS25S



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



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

[Oscilloscope Specifications]

Model	HDS25	HDS25S
Bandwidth	25MHz	
Channel	2	
Sample Rate	250MSa/s (Single channel)	125MSa/s (Dual channel)
Acquisition Model	Sample, Peak detect	
Record Length	8K or 4K optional	
Display	3.5 inch LCD	
Waveform Refresh Rate	10,000wfms/s	
Input Coupling	DC, AC ,Ground	
Input Impedance (DC Coupling)	1 MΩ±2%, in parallel with 16 pF±10 pF	
Probe Attenuation	1X,10X,100X,1000X,10000X	
Max. Input Voltage	400V (DC+AC, PK - PK)	
Sensitivity Resolution	10mV/div~10V/div	
Vertical Resolution	8 bit	
Horizontal Scale	5ns/div-1000s/div, Step by 1-2-5	
Trigger Type	Edge	
Trigger Model	Auto, Normal,Single	
Automatic Measurement	Period, Frequency, Mean, PK-PK, Max, Min, Amplitude, RMS	
Cursor Measurement	ΔV, ΔT, ΔT&ΔV between cursors,auto cursor	

[Digital Multimeter Specification]

Full Scale Reading	4 $\frac{1}{2}$ digits (max 20000 counts)
Testing Modes	Voltage, Current, Resistance, Capacitance, Diode , Continuity
Max Input Voltage	AC 750V, DC 1000V
Max Input Current	AC 10A, DC 10A
Automatic Range	√
True RMS	√

[Waveform Generator Specification] (only for HDS25S)

Frequency Output	Sine	0.1Hz~10MHz	
	Square	0.1Hz~2MHz	
	Ramp	0.1Hz~1MHz	
	Pulse	0.1Hz~5MHz	
	Arbitrary Waveform	0.1Hz~5MHz	
Amplitude(50Ω)	0.01Vpp~2.5Vpp		
Sample Rate	125MSa/s	Channel	1
Waveform length	8K	Vertical resolution	14bits

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



1 Main device

2 Probe

3 Multimeter Leads

4 USB Cable

5 BNC to Alligator Clip

6 Quick Guide