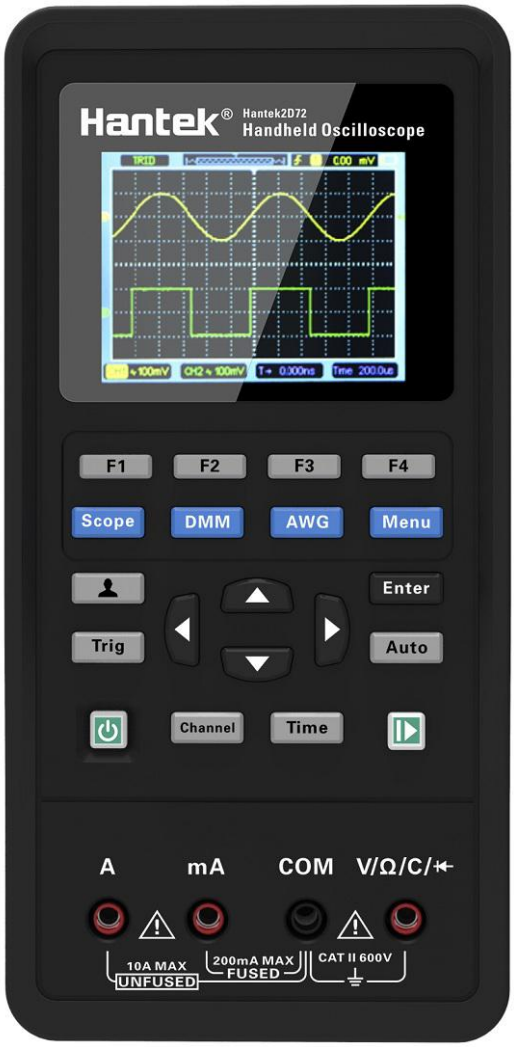
Mini Handheld Oscilloscope

2 CH, 70MHz Bandwidth, 250MSa/s Sample Rate + DMM + AWG

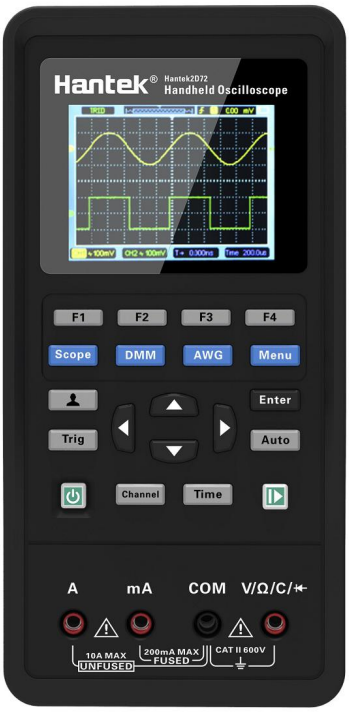
Hantek2D72



Accessory

Features

Oscilloscope Function



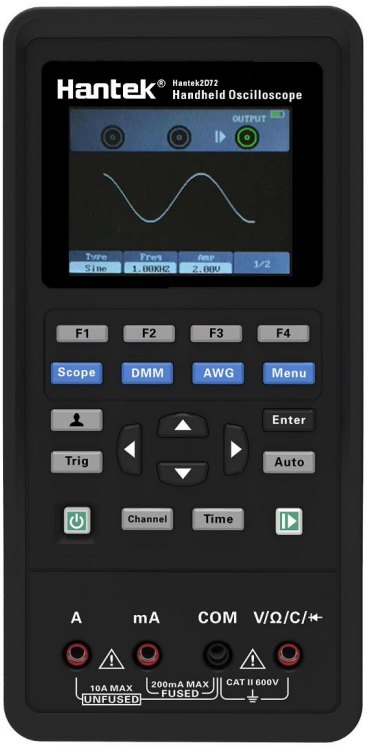
- 2 channels oscilloscope, 70MHz bandwidth, 250M sampling rate.
- 10mV-10V/DIV high input sensitivity and large input range.
- Auto automatic measuring function.
- Adjustable backlight brightness, backlight duration, and auto power off time.
- Cursor measurement, reference waveform, waveform storage function.
- Color highlight LCD screen, legible even in bright sunlight.
- Powered by two universal ICR18650 lithium battery only, be able to work continuously for a full day and standby ower 8 weeks.
- Digital voltmeter function.
- Key tone settings.
- Full function PC software.

Multimeter Function

With standard multi-functional digital multimeter which can be used to measure AC/DC voltage, current, resistance, diode, capacitance, continuity test.

- **V~** AC Voltage
- **V-** DC Voltage
- **A~** AC Current
- **A-** DC Current
- Diode Test
- On-off Buzzer
- **Ω** Resistance Test
- **C** Capacitance Test

Arbitrary/Function Waveform Generator Function



- 1 channel arbitrary/function waveform generator.
- 250MSa/s sampling rate.
- 12 bits vertical revolution.
- Output sine wave, square wave, triangle wave, trapezoidal wave and arbitrary wave.
- Sine: 1Hz-25MHz
- Square: 1Hz-10MHz
- Triangle: 1Hz-1MHz
- Trapezoid: 1Hz-5MHz
- 4 types arbitrary wave
- Frequency resolution: 1Hz.

Specification

Model	Hantek2D72
OSCILLOSCOPE	
Bandwidth	70MHz
Channel	2 CH
Horizontal	
Real-time Sampling Rate	250MSa/s dual channels, 125MSa/s single channel
Waveform Interpolation	(sin x)/x
Memory Depth	Max. 6K for single-channel; 3K samples per dual-channel
Time Base Range	5ns/div-500s/div (1-2-5 sequences)

Vertical	
Vertical Resolution	8Bit, all channel sampled simultaneously
Input Sensitivity	10mV/div～10V/div at BNC inupt
Bandwidth Limit (Typical)	20MHz
Low Frequency Response (-3db)	≤10Hz at BNC
Rise Time at BNC (Typical)	≤5 ns
DC Gain Accuracy	±3% for Normal or Average acquisition mode
Note: Bandwidth down to 6MHz when probe at X1	
Acquisition	
Acquisition Mode	Normal
Trigger	
Trigger Type	Edge
Trigger Mode	Auto, Normal, Single
Trigger Level Range	±4 divisions from center of screen
Trigger Level Accuracy	0.2div × volts/div within ±4 divisions from center of screen
Slope	Rising edge, Falling edge, Rising or Falling edge
Source	CH1, CH2
Input	
Inputs Coupling	AC, DC, GND
Input Impedance	25pF±3pF, 1MΩ±2%
Probe Attenuation	1X, 10X
Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X
Maximum Input Voltage	150VRMS
Measurement	
Cursor Measurement	Voltage difference between cursors: △V
	Time difference between cursors: △T
Auto Measuerment	Frequency, Amplitude
MULTIMETER	
Maximum Resolution	4000 Counts
DMM Testing Modes	Voltage,Current,Resistance,Capacitance,Diode &On-Off

Maximum Input Voltage	AC:600V, DC: 800V		
Maximum Input Current	AC: 10A, DC:10A		
Input Impedance	10MΩ		
Measurement Term	Range	Accuracy	Resolution
DC Voltage	400.00mV	± (0.8% + 5)	100uV
	4.000V		1mV
	40.00V		10mV
	400.0V		100mV
	600.0V	± (1% + 2)	1V
	Overload protection: 400mV: 250V, other: 600Vrms.		
AC Voltage	4.000V	± (1.2% + 5)	1mV
	40.00V		10mV
	400.0V		100mV
	600.0V	±(1.5% + 5)	1V
	Frequency: 40Hz~400Hz		
	Frequency of 400V and 600V: 40Hz~100Hz		
DC Current	40.00mA	± (1.3% + 2)	10uA
	200.0mA	± (1.8% + 2)	100uA
	4.000A	± (2% + 3)	1mA
	10.00A	± (3% + 5)	10mA
	Self restoring fuse: 200mA/250V, 4A and 10A range no fuse.		
AC Current	40.00mA	± (1.3% + 2)	10uA
	400.0mA	± (1.8% + 2)	100uA
	4.000A	± (2% + 3)	1mA
	10.00A	± (3% + 5)	10mA
	Frequency: 40Hz~400Hz		
	Self restoring fuse: 200mA/250V, 4A and 10A range no fuse.		
Resistance	400.0Ω	±(1% + 3)	0.1Ω
	4.000KΩ	±(1.2% + 5)	1Ω
	60.00KΩ		10Ω
	400.0KΩ		100Ω
	4.000MΩ		1KΩ
	40.00MΩ	± (1.5%±3)	10KΩ
	Overload protection: 220Vrms		
Capacitance	40.00nF	±(3% + 5)	10pF
	400.0nF		100pF
	4.000uF		1nF
	40.00uF		10nF
	100.0uF		100nF

	Overload protection: 220Vrms
Diode	0V~1.0V
On-Off	<50Ω

ARBITRARY WAVEFORM GENERATOR

Waveform Frequency	Sine: 1Hz~25MHz Square: 1Hz~10MHz Triangle: 1Hz~1MHz Trapezoidal: 1Hz~5MHz
Sampling Rate	250MSa/s
Amplitude	2.5Vpp (50Ω)
	5Vpp (High impedance)
Frequency Resolution	0.001
Channel	1CH waveform output
Waveform Depth	512 Sa
Vertical Resolution	12 bit
Frequency Stability	<30ppm
Output Impedance	50 Ω

GENERAL CHARACTORISTICS

Display

Display Type	2.8 inch64K color TFT
Display Resolution	320 horizontal by 240 vertical pixels

Power Supply

Supply Voltage	100V-240VAC, 50Hz-60Hz; DC INPUT: 5VDC, 2A
Power Consumption	<2.5W
Fuse	T, 3A
Battery	2600mA*2

Environmental

Operating Temperature	0~50 °C (32~122 °F)
Storage Temperature	-40~+71 °C (-40~159.8 °F)
Cooling Method	Convection

Mechanical

Dimension	199 x 98x 40mm (L x W x H)
Weight	400g