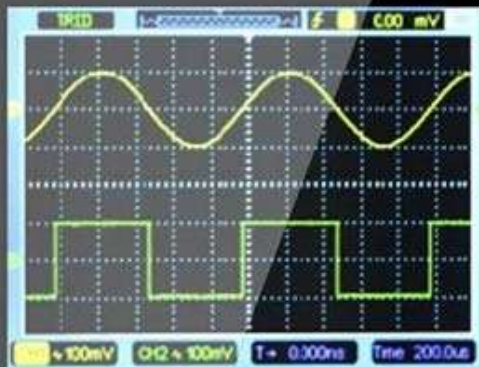


Hantek® Hantek2C42  
Handheld Oscilloscope



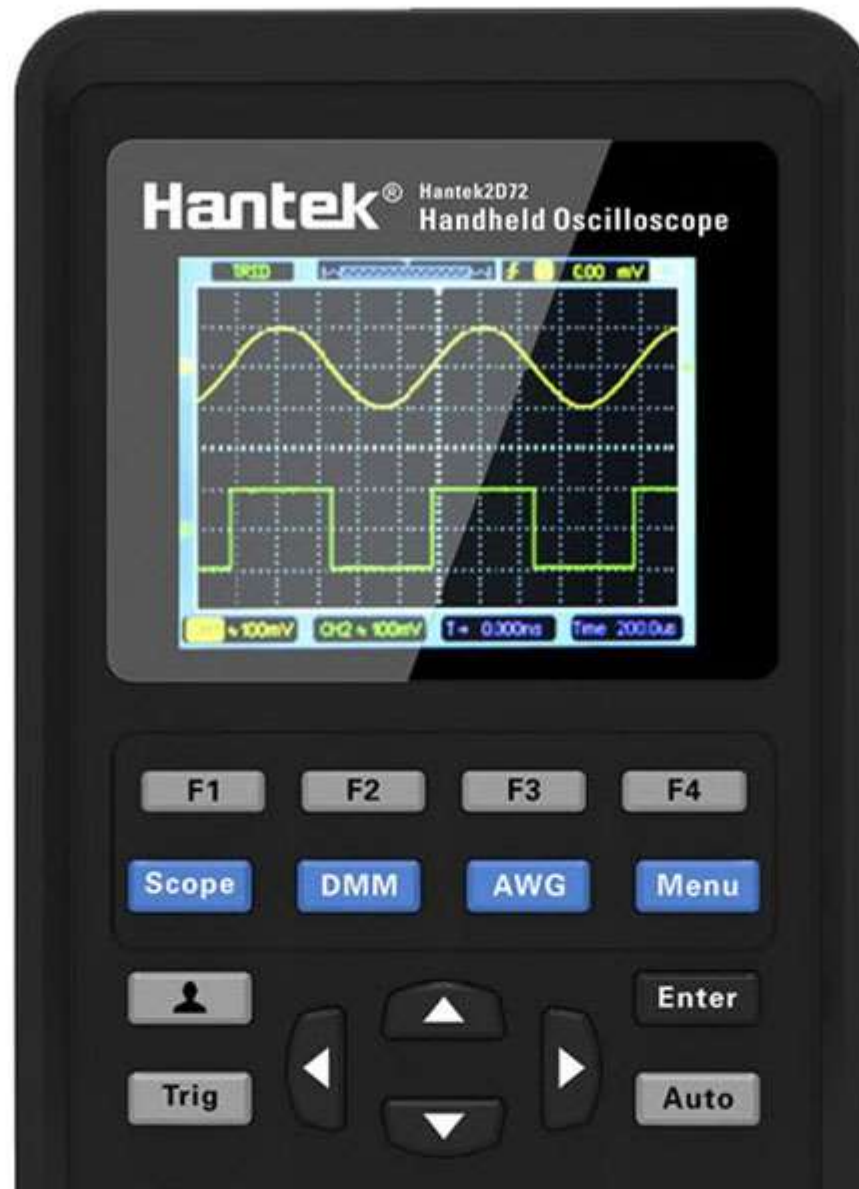
F1 F2 F3 F4

Scope DMM AWG Menu

Trig Enter

Auto

Channel Time







Hantek

**WARNING**

Do not touch any exposed terminals (BNC, USB, Cal, Ground) when this device is connected to other things. Please connect the

## Hantek2000 Series

An all-new handheld oscilloscope-Hantek2000 series, it continues the compact and lightweight concept but with a new generation of 3 in 1 multifunction tester: oscilloscope, signal source and multimeter; A small volume of the non-profit grip by a single hand; The suspendingstand was designed to support multi-angle adjustment; Ultra-low-power, Type C charging interface, each 2 hours battery charge allow working one full day or standbytwo months; High-definition color LCD screen display clear and delicate; Minimalist keyboard design simplifyoperation, easy to use.

- Overview

- **Parameters**

- Comparison

- Accessories

- Download

Model	Hantek2D72	Hantek2D42	Hantek2C72	Hantek2C42
Oscilloscope Mode				
Bandwidth	70MHz	40MHz	70MHz	40MHz
Channel	2CH+DMM+AWG	2CH+DMM+AWG	2CH+DMM	2CH+DMM
Horizontal				

Sample Rate Range	250MSa/s(Single-channel), 125MSa/s(Dual-channel)
Waveform Interpolation	(sin x)/x
Record Length	Max. 6K for single-channel; 3K samples per dual-channel
SEC/DIV Range	5ns/div~500s/div 1, 2, 5 sequence
Vertical	
A/D Converter	8-bit resolution,each channel sampled simultaneously
VOLTS/DIV Range	10mV/div~10V/divat input BNC
Bandwidth Limit, typical	20MHz
Low Frequency Response (-3db)	≤10Hz at BNC
Rise Time at BNC, typical	≤5ns
DC Gain Accuracy	±3% for Normal or Average acquisition mode, 10V/div to 10mV/div
Note: Bandwidth reduced to 6MHz when using a 1X probe.	
Acquisition	
Acquisition Modes	Normal

Trigger	
Type	Edge
Mode	Auto, Normal, single
Level	$\pm 4$ divisions from center of screen
Trigger Level Accuracy	0.2div $\times$ volts/div within $\pm 4$ divisions from center of screen
Slope	Rising, Falling, Rising & Falling
Source	CH1/CH2
Input	
Coupling	DC, AC or GND
Input Impedance, DC coupled	25pF $\pm$ 3 pF, 1M $\Omega$ $\pm$ 2%
Probe Attenuation	1X, 10X
Supported Probe Attenuation Factors	1X, 10X, 100X, 1000X
Maximum Input Voltage	150V <sub>RMS</sub>
Measurement	

Cursor	Voltage difference between cursors: $\Delta V$		
	Time difference between cursors: $\Delta T$		
Automatic Measurements	Frequency, Amplitude		
Arbitrary Waveform Generator Mode			
Waveform Frequency	Sine: 1Hz~25MHz	-	-
	Square: 1Hz~10MHz	-	-
	Ramp: 1Hz~1MHz	-	-
	EXP: 1Hz~5MHz	-	-
Sampling	250MSa/s	-	-
Amplitude	2.5Vpp(50 $\Omega$ )	-	-
	5Vpp(High impedance)	-	-
Frequency Resolution	0.10%	-	-
Channel	1CH waveform output	-	-
Waveform Depth	512Sa	-	-
Vertical Resolution	12 bit	-	-
Output Impedance	50 $\Omega$	-	-
DMM			



Maximum Resolution	4000 Counts		
DMM Testing Modes	Voltage, Current, Resistance, Capacitance, Diode & On-Off		
Maximum Input Voltage	AC: 600V, DC: 600V		
Maximum Input Current	AC: 10A, DC: 10A		
Input Impedance	10M $\Omega$		
Measurement Term	Range	Accuracy	Resolution
DC Voltage	400.00mV	$\pm (0.8\% + 5)$	100uV
	4.000V		1mV
	40.00V		10mV
	400.0V		100mV
	600.0V	$\pm (1\% + 2)$	1V
	Overload protection: 400mV: 250V, other: 600Vrms.		
AC Voltage	4.000V	$\pm (1.2\% + 5)$	1mV
	40.00V		10mV
	400.0V		100mV
	600.0V	$\pm (1.5\% + 5)$	1V

	Frequency: 40Hz~400Hz;		
	Frequency of 400V and 600V: 40Hz~100Hz		
DC Current	40.00mA	$\pm (1\% + 2)$	10uA
	200.0mA	$\pm (1.5\% + 2)$	100uA
	4.000A	$\pm (1.8\% + 2)$	1mA
	10.00A	$\pm (3\% + 2)$	10mA
	Overload protection:		
	self restoring fuse: 200mA/250V, 4A and 10A range no fuse.		
AC Current	40.00mA	$\pm (1.3\% + 2)$	10uA
	400.0mA	$\pm (1.8\% + 2)$	100uA
	4.000A	$\pm (2\% + 3)$	1mA
	10.00A	$\pm (3\% + 5)$	10mA
	Frequency: 40Hz~400Hz;		
	self restoring fuse: 200mA/250V, 4A and 10A range no fuse.		
Resistance	400.0 $\Omega$	$\pm(1\% + 3)$	0.1 $\Omega$
	4.000K $\Omega$	$\pm(1.2\% + 5)$	1 $\Omega$
	60.00K $\Omega$		10 $\Omega$

	400.0K $\Omega$		100 $\Omega$
	4.000M $\Omega$		1K $\Omega$
	40.00M $\Omega$	$\pm (1.5\% \pm 3)$	10K $\Omega$
Overload protection: 220Vrms			
Capacitance	40.00nF	$\pm(3\% + 5)$	10pF
	400.0nF		100pF
	4.000uF		1nF
	40.00uF		10nF
	100.0uF		100nF
	Overload protection: 220Vrms		
Diode	0V~1.0V		
On-Off	<50 $\Omega$		
General Specifications			
Display			
Display Type	2.8 inch64K color TFT		
Display Resolution	320 horizontal by 240 vertical pixels		

Display Contrast	Adjustable	
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)	
Humidity	≤+104°F(≤+40°C): ≤90% relative humidity	
	106°F~122°F (+41°C ~50°C): ≤60% relative humidity	
Cooling Method	Convection	
Altitude	Operating and	3,000m (10,000 feet)
	Nonoperating	
Mechanical Shock	Random Vibration	0.31g <sub>RMS</sub> from 50Hz to 500Hz, 10 minutes on each axis
	Nonoperating	2.46g <sub>RMS</sub> from 5Hz to 500Hz, 10 minutes on each axis

	Operating	50g, 11ms, half sine		
Mechanical				
Dimension	199 x 98x 40mm (L x W x H)			
Weight	624g			
Standard Accessories	Probe*1,Clip Probe*2, Type Charging Cable*1, Power Adapter*1, Multimeter Probe*1	Probe*1,Clip Probe*2, Type Charging Cable*1, Power Adapter*1, Multimeter Probe*1	Probe*1,Clip Probe*1, Type Charging Cable*1, Power Adapter*1, Multimeter Probe*1	Probe*1,Clip Probe*1, Type Charging Cable*1, Power Adapter*1, Multimeter Probe*1



# TECHNICAL SPECIFICATIONS



**2C42**



**2C72**



**2D42**



**2D72**

Model

Channel

Bandwidth

Sample

Power

DMM

AFG



(Without battery)



Multimeter \*1



Clip probe\*1



Probe\*1



