Hantek 2000 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 stand by two months; High-definition color LCD screen display clear and delicate; Minimalist keyboard design simplify operation, easy to use.

- Oscilloscope + Waveform Generator + Multimeter: This multi-purpose station own three universal test instrument functions. It is outgoing right-hand product for engineers.
- **Intelligent charging control**: Its lithium batteries can be recharged by either high current-5V/2A or ordinary computer USB interface. Allow while charging, while using, very convenient and handy;
- **Ultra-low power design**: Type C charging interface, after every recharge of 2 hours, the device can be used continuously for a full day or standby more than two months;
- Large-capacity lithium battery power supply: 18650 replaceable lithium battery power system, free from replace battery;
- **5V/2A charger + Type C charging cable**: Type C power + data transfer interface, can share the charger and data cable with your mobile phone;
- **AUTO one-key test**: Magic tool and essential function for test newbie; Volume small, one hand holding: The 45 degree suspension bracket design provide you a work station anywhere anytime; One key page out, quick compare two groups of reference waveforms + 6 groups of waveforms storage, simple and effective;
- Digital voltmeter function: automatic frequency and amplitude measurement, convenient and worry-free; Its
 cursor measurement function supports time and voltage manual measurement, and measure the required
 waveforms accurately; One-click switching its Chinese and English language menu;
- **Color LCD screen**: exquisite and smooth lines make the waveforms clear and undistorted when magnify; Minimalist keyboard design simplify operation, convenient to use;
- **Unibody casing**: fine touch feeling, favorable impact resistance, outstanding heat resistance, easy to disassemble:
- **Self-calibration function**: free from level drift after long time unused;
- Universal multimeter function: voltage, current, resistance, diode, capacitor, on-off test;
- **Waveform generator output function**: output sine, square, triangle, trapezoidal and other waveforms; sine up to 25MHz:
- **Function of video help**: scan code on back of machine to get help of video course; The PC software supports windows7/8/10 32-bit and 64-bit.

Model	Channel	Bandwidth	Sample	Power	DMM	AFG
Hantek2C42	2 CH+DMM	40 MHz	250MSa/S	Direct charge	4	-
Hantek2C72	2 CH+DMM	70 MHz	250MSa/S	Direct charge	4	-
Hantek2D42	2 CH+AFG+DMM	40 MHz	250MSa/S	Direct charge	4	4
Hantek2D72	2 CH+AFG+DMM	70 MHz	250MSa/S	Direct charge	4	4

3 in 1

Dual Channel Oscilloscope + Waveform Generator+Multimeter

OSCILLOSCOPE

250M Sampling rate, 70/40MHz Bandwidth; 10mV~10V Vertical resolution; Auto automatic measuring function; Key tone settings;

Adjustable backlight brightness, backlight duration.

and auto power off time;

Digital voltmeter function; Support Chinese and English menu switch; Cursor measurement, reference waveform, waveform

Storage function.





Great function with small size!

Color highlight LCD screen, legible even in bright sunlight;

Soft colors, clear waveforms display; High quality casing + Silicon protective cover with fine touch feeling, favorable impact resistance, and outstanding heat resistance;

Powered by two 18650 lithium battery only; Be able to work continuously for a full day and standby over 8 weeks;
Minimalist keyboard design simplify operation, easy to use.

WAVEFORM GENERATOR

250MSa/s Sampling rate, 12 bits vertical

revolution;
Sine: 1Hz~25MHz
Square: 1Hz~10MHz
Triangular: 1Hz~1MHz
Trapezoid: 1Hz~5MHz
Frequency revolution: 1Hz
Output impedance: 50Ω
4 types arbitrary waveform;
A multipurpose tester that meet your current and future testing demands.



MULTIMETER

All-series with standard multifunctional digital multimeter which can be used to measure AC/DC voltage/current, resistance, diode, capacitance, on-off test. High sensitivity and accuracy, clear display, strong overload ability, and ultraportable.



INTELLIEGENT CHARGING CONTROL

It can be recharged by either high current-5V/2A or ordinary computer USB interface. Allow while charging, while using, very convenient and handy;



BUILT-IN LARGE CAPACITY LITHIUM BATTERY

18650 replaceable lithium battery power system, free from replace battery;

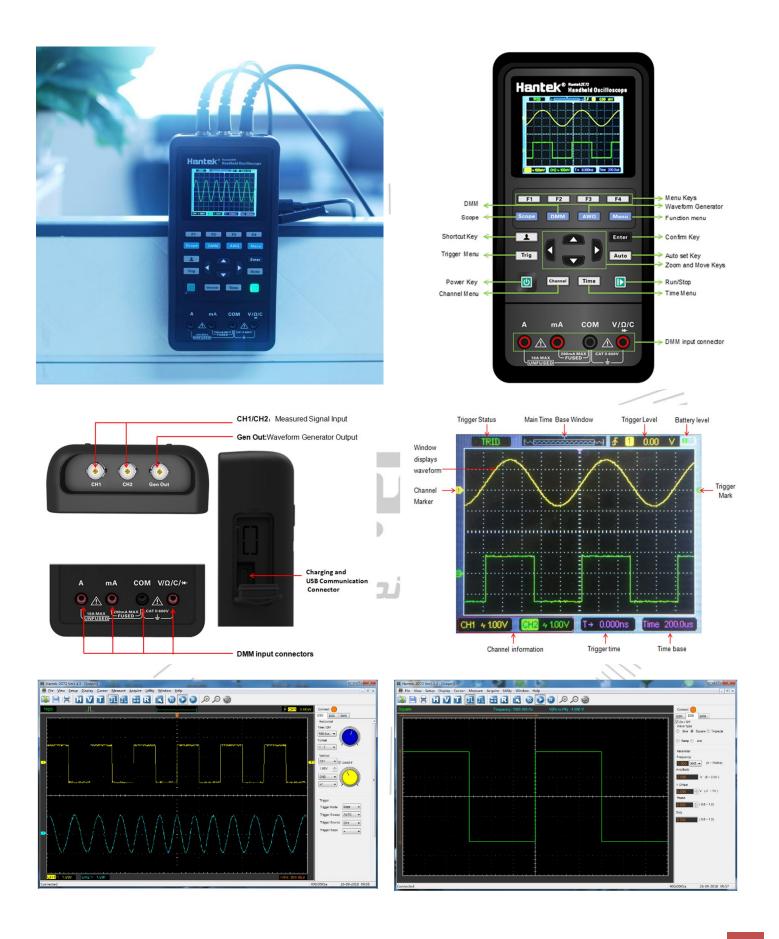
5V/2A CHARGER TYPEC CHARGING AND DATA TRANSMISSION CABLE

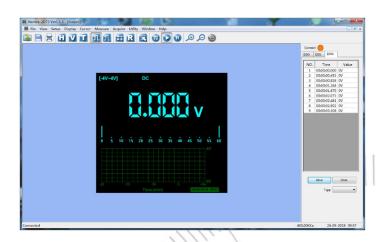
Type C power + data transfer interface, can share the charger and data cable with your mobile phone;

ULTRA LOW POWER DESIGN

Each 2 hours battery charge allow working one full day or standby two months;









Specification

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Model	Hantek 2D72	Hantek 2D42	Hantek 2C72	Hantek 2C42	
Oscilloscope Mode					
Bandwidth	70MHz	40MHz	70MHz	40MHz	
Channel	2CH+DMM+AWG	2CH+DMM+AWG	2CH+DMM	2CH+DMM	
Horizontal					
Sample Rate Range	e Rate 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: Bandwidt	h reduced to 6MHz when using a 1X probe.			
Acquisition				
Acquisition Modes	Normal			
Trigger				
Туре	Edge			
Mode	Auto, Normal, single			
Level	±4 divisions from center of screen			
Trigger Level Accuracy	0.2div × volts/div within ±4 divisions from center of screen			
Slope	Rising, Falling, Rising & Falling			
Source	CH1/CH2			
Input				
Coupling	DC, AC or GND			
Input Impedance,	25pF±3 pF, 1MΩ±2%			
DC coupled				
Probe Attenuation	1X, 10X			
Supported Probe Attenuation Factors	1X, 10X, 100X, 1000X			
Maximum Input Voltage	150V _{RMS}			
Measurement				
Cursor	Voltage difference between cursors: △V			
Guisoi	Time difference between cursors: △T			
Automatic Measurements Frequency, Amplitude				
Arbitrary Wavef	orm Generator Mode			

	Sine: 1Hz~25MHz	7	-	-	
Waveform Frequency	Square: 1Hz~10M	lHz	-	-	
	Ramp: 1Hz~1MHz	7	-	-	
	EXP: 1Hz~5MHz		-	-	
Sampling	250MSa/s		-	-	
	2.5Vpp(50Ω)		-	-	
Amplitude	5V pp (High imped	dance)	-	-	
Frequency Resolution	0.10%		-	-	
Channel	1CH waveform ou	itput	-	-	
Waveform Depth	512Sa		-	-	
Vertical Resolution	12 bit		-	-	
Output Impedance	50 Ω		-	-	
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	10ΜΩ				
Measurement Term	Range	Accuracy	Resolution		
DC Voltage	400.00mV		100uV		
	4.000V	± (0.8% + 5)	1mV		
	40.00V		10mV		
	400.0V		100mV		
	600.0V	± (1% + 2)	1V		

	Overload protection: 400mV: 250V, other: 600Vrms.					
AC Voltage	4.000V		1mV			
	40.00V	± (1.2% + 5)	10mV			
	400.0V		100mV			
	600.0V	±(1.5% + 5)	1V			
	Frequency: 40Hz	Frequency: 40Hz~400Hz;				
	Frequency of 400	Frequency of 400V and 600V: 40Hz~100Hz				
	40.00mA	± (1% + 2)	10uA			
	200.0mA	± (1.5% + 2)	100uA			
	4.000A	± (1.8% + 2)	1mA			
DC Current	10.00A	± (3% + 2)	10mA			
	Overload protection:					
	self restoring fuse: 200mA/250V, 4A and 10A range no fuse.					
	40.00mA	± (1.3% + 2)	10uA			
	400.0mA	± (1.8% + 2)	100uA			
	4.000A	± (2% + 3)	1mA			
AC Current	10.00A	± (3% + 5)	10mA			
	Frequency: 40Hz~400Hz;					
	self restoring fuse: 200mA/250V, 4A and 10A range no fuse.					
	400.0Ω	±(1% + 3)	0.1Ω			
	4.000ΚΩ		1Ω			
Resistance	60.00ΚΩ	±(1.2% + 5)	10Ω			
	400.0ΚΩ	<u> </u>	100Ω			
	4.000ΜΩ		1ΚΩ			
	40.00ΜΩ	± (1.5%±3)	10ΚΩ			
	Overload protection: 220Vrms					

Capacitance	40.00nF		10pF		
	400.0nF		100pF		
	4.000uF	±(3% + 5)	1nF		
	40.00uF		10nF		
	100.0uF	-	100nF		
	Overload protection: 220Vrms				
Diode	0V~1.0V				
On-Off	<50Ω				
General Speci	fications				
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 fe	eet)		

	Nonoperating			
Mechanical Shock	Random Vibration	0.31g _{RMS} from 50Hz to 500Hz, 10 minutes on each axis		
	Nonoperating	2.46g _{RMS} 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

