



### 3 in 1

Dual Channel Oscilloscope + Waveform Generator+Multimeter

### OSCILLOSCOPE

250MSampling 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.



### ◆ Waveform Generator Function

A multipurpose instrument that helps complete your tasks more quickly, improves work efficiency, and meets all your current and future test needs.

### 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.



◆ Multifunction Digital Multimeter Function

High sensitivity and accuracy, showing clear, strong anti-overload capability, easy to carry.

**MULTIMETER**

All-series with standard multi-functional 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 ultra-portable.



◆ Intelligent Charging Control

Be able to recharged by 5V/2A large current or ordinary computer USB port, measurement can be done even while charging, convenience and user-friendly.

**INTELLIGENT 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;



◆ Large-capacity Lithium Battery + Ultra Low Power + Type C Data Transfer/Charging Interface

18650 replaceable lithium battery power system, free from replace battery;  
Be able to recharged by 5V/2A large current or ordinary computer USB port, allow while charging, while using, very convenient and handy;  
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;  
Type C power + data transfer interface, can share the charger and data cable with your mobile phone;

**BUILT-IN LARGE CAPACITY LITHIUM BATTERY**

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

**5V/2A CHARGER  
TYPE C CHARGING AND DATA  
TRANSMISSION CABLE**

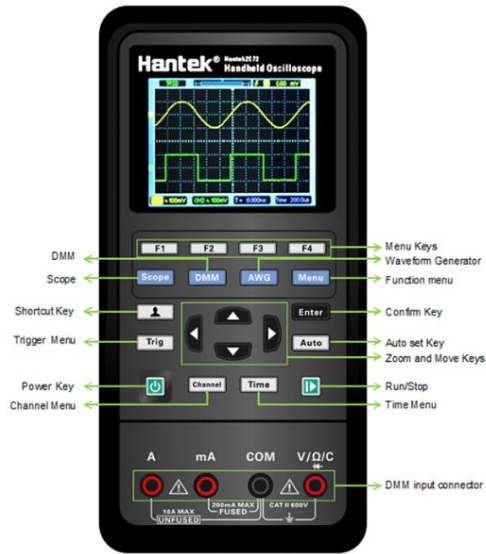
Type C power + data transfer interface, can share the charger and data cable with your mobile phone;

**ULTRA LOW POWER DESIGN**

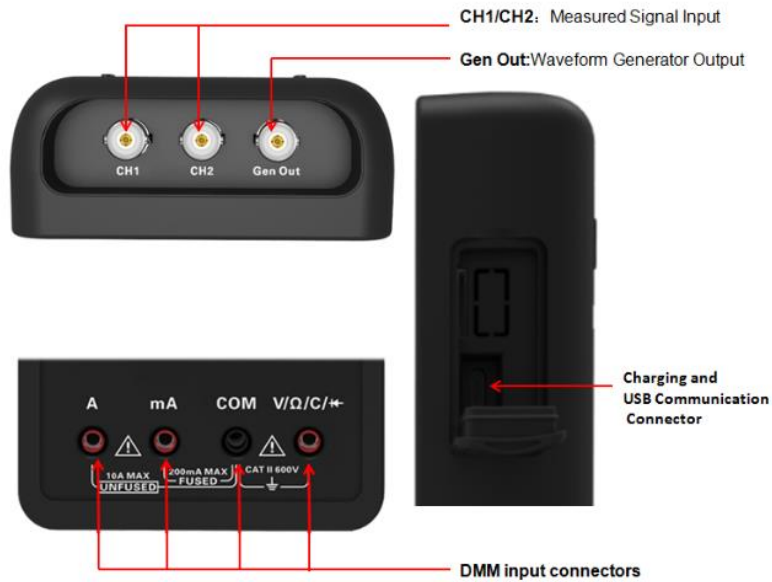
Each 2 hours battery charge allow working one full day or standby two months;



◆ Function Review



◆ Connectors Review



◆ Specification

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	±4 divisions from center of screen			
Trigger Level Accuracy	0.2div x 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 <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(50Ω)	-	-
	5Vpp(High impedance)	-	-
Frequency Resolution	0.10%	-	-
Channel	1CH waveform output	-	-
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	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