

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 × 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: ΔV		
	Time difference between cursors: ΔT		
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 Ω		
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 Ω	$\pm(1\% + 3)$	0.1 Ω
	4.000K Ω	$\pm(1.2\% + 5)$	1 Ω
	60.00K Ω		10 Ω
	400.0K Ω		100 Ω
	4.000M Ω		1K Ω
	40.00M Ω	$\pm (1.5\%\pm 3)$	10K Ω
	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 Ω		
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 _{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	