

# Dual Channel Handheld Digital Storage Oscilloscopes

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**RoHS  
Compliant**



## Features

- Oscilloscope + multimeter + waveform generator, multi-function in one
- 3.5-inch high-resolution, high-contrast colour LCD display
- USB Type-C interface, support power bank, support PC software connection
- Self-calibration function
- 18650 lithium battery, providing up to 6 hours working time suitable for outdoor

Part Number	MP720780	MP720781	MP720782	MP720783	MP720856	MP720857
Bandwidth	40MHz		70MHz	70MHz	100MHz	
Channel	2	2+1 (signal generator)	2	2+1 (signal generator)	2	2+1 (signal generator)
Sample rate	250MSa/s					
Acquisition model	Sample, Peak detect					
Record length	6K					
Display	3.5 inch LCD					
Waveform refresh rate	10000 wfms/s					
Input coupling	DC, AC ,Ground					
Input impedance	1 MΩ±2%, in parallel with 16 pF±10 pF					
Probe attenuation	1X,10X,100X,1000X					
Max. input voltage	400V (DC+AC, PK - PK)					
Bandwidth limit(typical)	20MHz / Full bandwidth					
Sampling rate range	5ns/div ~ 500s/div,step by 1 – 2 - 5					
Sensitivity Resolution	10mV/div~10V/div					
Low Frequency (-3db)	≥10 Hz (at input, AC coupling)					
Rise time (at input, Typical)	≤8ns		≤5ns	≤8ns		≤5ns
Trigger type	Edge					
Trigger model	Auto, Normal, single					
Trigger level range	±4 div from the screen centre					
Automatic measurement	Period, Frequency, Mean, PK-PK, Max, Min					
Cursor measurement	ΔV, ΔT, ΔT&ΔV between cursors, auto cursor					
Communication interface	USB Type-C					

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## Digital Multimeter Specification

Full scale reading	4 ½ digitals (max 20000 count)
Testing Modes	Voltage, Current, Resistance, Capacitance, Diode ,Continuity
Maximum Input Voltage	AC 750V, DC 1000V
Maximum Input Current	DC : 10A AC : 10A
Diodes Test	0-2V

	Measurement Range	Accuracy
DC Voltage	200.00mV	±(0.5%+5 dig)
	2.0000V/20.000V/200.00V	±(0.3%+3 dig)
	1000.0V	±(0.5%+2 dig)
AC Voltage	200.00mV/2.0000V/20.000V/200.00V	±(0.8%+5dig)
	750.00V	±(1%+5dig)
DC Current	20.000mA/200.00mA	±(1%+5dig)
	10.000A	±(2.5%+2dig)
AC Current	20.000mA/200.00mA	±(1%+5dig)
	10.000A	±(2.8%+5dig)
Resistance (Ω)	200.00Ω/2.0000kΩ/20.000kΩ/200.00kΩ/2.0000MΩ	±(0.8%+3dig)
	20.000MΩ	±(1%+3dig)
	100.00MΩ	±(3%+3dig)
Capacitance (F)	20.000nF/200.00nF/2.0000μF/20.000μF/200.00μF/2.0000mF	±(3.0%+10dig)
Frequency response (Hz)	(40 - 1000) Hz	

## Signal Generator Specification (Only MP720781, MP720783 & MP720867)

Frequency Output	Sine	0.1Hz~25MHz
	Square	0.1Hz~5MHz
	Ramp	0.1Hz~1MHz
	Arbitrary Waveform	0.1Hz~5MHz
Sample Rate	125MSa/s	
Channel	1	
Amplitude	20mVpp-5Vpp (high impedance), 10mVpp-2.5Vpp (50Ω)	
Waveform length	8K	
Vertical resolution	14bits	
Load impedance	1MΩ/50Ω	

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Standard Warranty : 03 years

## Accessories for MP720780 MP720781 MP720782 & MP720783



UK/EU Power Cord



Power Supply Adapter



Passive probe



Quick Guide



USB Cable



Multimeter Lead



Probe Adjust Tool



Soft Bag



BNC Plug to Alligator clips cable  
1x for MP720780/MP720782,  
2x for MP720781/MP720783

## Accessories for MP720856 & MP720857



Quick Guide



USB Cable



Probe Adjust Tool



Multimeter Lead



Soft Bag



Bolt Driver



Probe

BNC to Alligator  
Clip Cable

## Part Number Table

Description	Part Number
Handheld Digital Storage Oscilloscope, 2 Channel, 40MHz	MP720780
Handheld Digital Storage Oscilloscope, 2 + 1 Channel (Signal Generator), 40MHz	MP720781
Handheld Digital Storage Oscilloscope, 2 Channel, 70MHz	MP720782
Handheld Digital Storage Oscilloscope, 2 + 1 Channel (Signal Generator), 70MHz	MP720783
Oscilloscope, 2 Channel, 100 MHz, 250 MSPS, 6kpts, 5ns	MP720856
Oscilloscope, 2+1 Channel, 100 MHz, 250 MSPS, 6kpts, 5ns	MP720857

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