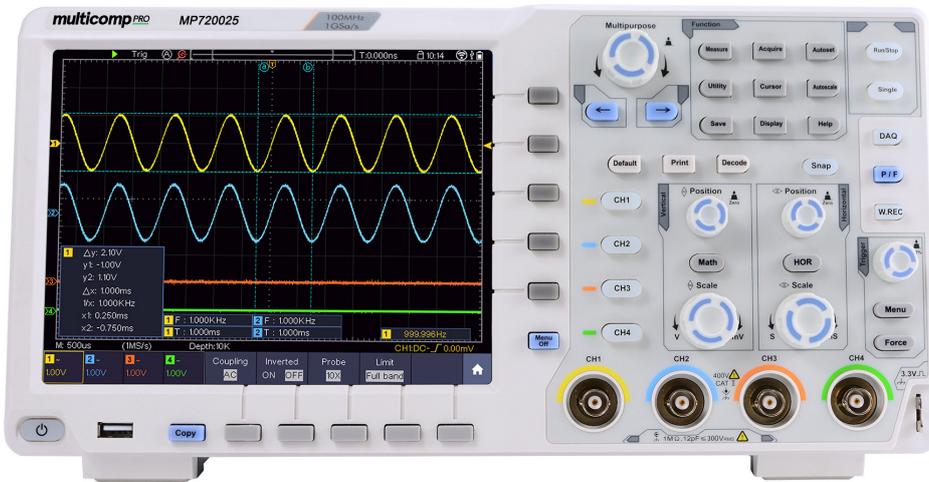# 4 Channel Digital Storage Oscilloscope

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Features

- 100MHz Bandwidth, 1GS/s sample rate
- 40M record length 45,000 wfms/s waveform refresh rate
- Low back ground noise
- 8″ 800 × 600 high resolution LCD Display, optional multi-touch screen, more user-friendly operation experience
- SCPI and LabVIEW supported
- Multi- trigger, and bus decoding function
- Multi-interface integration - USB host, USB device, USB port for PictBridge, LAN, AUX, and VGA

Oscilloscope Specifications

Bandwidth	100MHz
Sample Rate	1GS/s
Vertical Resolution (A/D))	8 bits
Record length	40M
Waveform Refresh Rate	45,000 wfms/s
Horizontal Scale (s/div))	2ns/div - 1000s/div, step by 1 - 2 - 5
Rise Time (at input, typical)	≤3.5ns
Channels	4
Display	8" colour LCD, 800 x 600 pixels display
Input Impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1
Max Input Voltage	1MΩ ≤ 300Vrms;
DC Gain Accuracy	±3%
DC Accuracy	Average≥16: ±(3% +0.05div) for ΔV
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5
LF Respond (AC, -3dB)	≥5Hz
Sample Rate / Relay Time Accuracy	±2.5ppm

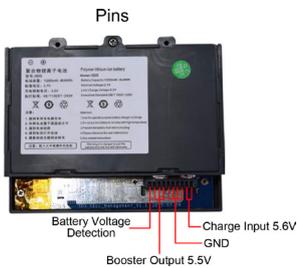Newark.com/exclusive-brands
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4 Channel Digital Storage Oscilloscope

Interpolation		(sinx) / x,x
Interval (∆T) Accuracy (full bandwidth)		Single: ±(1 interval time + 1ppm x reading + 0.6ns); Average > 16: ±(1 interval time + 1ppm x reading + 0.4ns)
Input Coupling		DC, AC, GND
Vertical Sensitivity		1mV/div - 10V/div (at input)
Trigger Type		Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I2C, SPI, RS232, and CAN (optional)
Bus Decoding (optional)		I^2C, SPI, RS232, CAN
Trigger Mode		Auto, Normal and Single
Vertical Range		±2V(1mV/div~50mV/div); ±20V(100mV/div~1V/div); ±200V(2V/div~10V/div)
Line / Field Frequency (video)		NTSC, PAL and SECAM standard
Cursor Measurement		∆V, and ∆T between cursors, ∆V and ∆T between cursors, and auto- cursors
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase A→B ↑, Phase A→B↓, Preshoot, Rise Time, Fall Time,+Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B ↑, Delay A→B↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edges Count, Area, Cycle Area
Waveform Math		+, -, ×, ÷, FFT
Waveform Storage		100 waveforms
Lissajou's Figure	Full bandwidth	Full bandwidth
	±3 degrees	±3 degrees
Communication Interface		USB host, USB device, USB port for PictBridge, Trig Out (P/F), LAN, and VGA (optional)
Frequency Counter		Available
Power Supply		100V AC to 240V AC, 50/60Hz, CAT II
Fuse		2A, T class, 250V
Battery (optional)		3.7V, 13200mA
Dimension (W × H × D)		340mm × 177mm × 90mm
Standard Accessories Included		Power cord, USB cable, CD-Rom.Manual, Probes, Probe Adjust Tool
Optional Accessories		Soft bag & Battery
Power Cord Plug Type		UK / EU
Warranty		12 months

Module / Function

VGA	VGA+AV port
MTS	Touch screen(capacitor-type)

Decoding Kit

RS232	RS232
SPI	SPI
I^2C	I^2C
CAN	CAN

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Polymer Lithium-ion Battery

Battery Specification Table

Characteristics	Item	Values
Li Battery	Capacity	13200mAh 48.84Wh
	Nominal Voltage	3.7V
	Limited Charge Voltage	4.2V
Protective Circuit	Charge Voltage	≤4.2V
	Charge Current	≤3A
	Discharge Voltage	2.8V ≤ Voltage ≤ 4.2V
	Discharge Current	≤7A
Charging Management	Charge Voltage Input Range	4.2V to 10V
	Rated Charge Voltage	5.6V
Battery Booster	Rated Output Voltage	5.5V ± 2%
	Output Voltage Ripple (20MHz)	≤100mVpp
	Output Current	≤4A
System	Charging Time	8 hours approximately
	Discharging Time	3.5 hours approximately
Operating Temperature	Charging Temperature	0°C to +45°C
	Discharging Temperature	-20°C to +60°C
	Storage Temperature	-10°C to +45°C
Dimension	119.2mm × 97.2mm × 25.7mm (L × W × T)	
Weight	371.9g	

Pins

Battery Voltage Detection
Charge Input 5.6V
GND
Booster Output 5.5V

Part Number Table

Description	Part Number
4 Channel Digital Storage Oscilloscope, 100MHz	MP720025 EU-UK
Polymer Lithium-ion Battery for Oscilloscope (MP720025 EU-UK)	MP720417

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