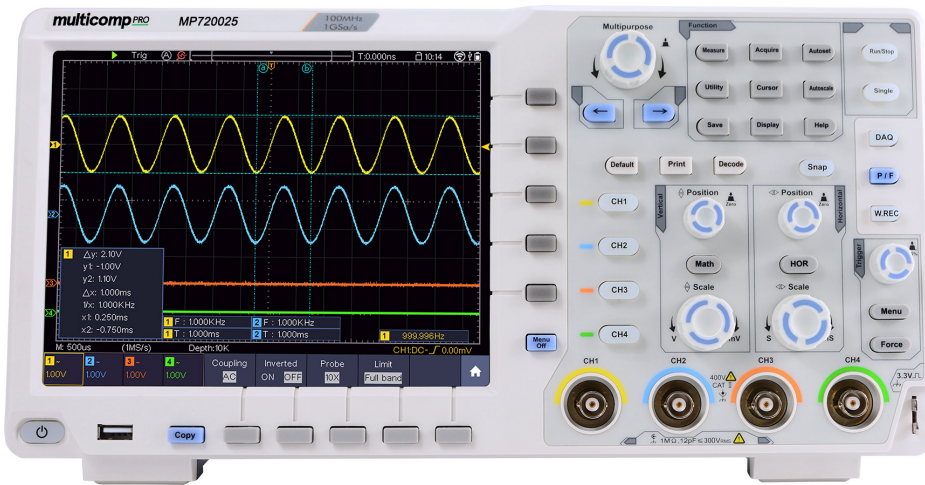


# 4 Channel Digital Storage Oscilloscope

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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

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Interpolation	(sinx) / x,x	
Interval ( $\Delta T$ ) Accuracy (full bandwidth)	Single: $\pm(1 \text{ interval time} + 1 \text{ ppm} \times \text{reading} + 0.6 \text{ ns})$ ; Average > 16: $\pm(1 \text{ interval time} + 1 \text{ ppm} \times \text{reading} + 0.4 \text{ ns})$	
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 <sup>2</sup> C, SPI, RS232, CAN	
Trigger Mode	Auto, Normal and Single	
Vertical Range	$\pm 2\text{V}(1\text{mV/div}\sim 50\text{mV/div})$ ; $\pm 20\text{V}(100\text{mV/div}\sim 1\text{V/div})$ ; $\pm 200\text{V}(2\text{V/div}\sim 10\text{V/div})$	
Line / Field Frequency (video)	NTSC, PAL and SECAM standard	
Cursor Measurement	$\Delta V$ , and $\Delta T$ between cursors, $\Delta V$ and $\Delta T$ between cursors, and auto- cursors	
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Peak 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
	$\pm 3$ degrees	$\pm 3$ 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	

## Multimeter Specifications (Optional)

Full Scale Reading	3-3/4 digits (max 4000 count)
Input Impedance	10M $\Omega$
Capacitance	51.2nF - 100 $\mu$ F: $\pm(3\% \pm 3 \text{ digits})$
Voltage	DCV: 400mV, 4V, 400V: $\pm(1 \pm 1 \text{ digit})$ ; max input: DC 1000V ACV: 4V, 40V, 400V: $\pm(1 \pm 3 \text{ digits})$ ; frequency: 40Hz - 400Hz Max input: AC 750V (virtual value)
Current	DCA: 40mA, 400mA: $\pm(1.5\% \pm 1 \text{ digit})$ ; 10A: $\pm(3\% \pm 3 \text{ digits})$ ACA: 40mA: $\pm(1.5\% \pm 3 \text{ digits})$ , 400mA: $\pm(2\% \pm 1 \text{ digit})$ , 10A: $\pm(3\% \pm 3 \text{ digits})$

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# 4 Channel Digital Storage Oscilloscope

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Impedance	400Ω: ±(1% ±3 digits), 4KΩ - 40MΩ: ±(1% ±1 digit)
Diode	0V -1.5V
Continuity Test	<50 (±30) beeping

## Arb Waveform Generator Specifications (Optional)

Max Frequency Output	25MHz
Sample Rate	125MS/s
Channel	2 channel ( only apply to XDS3064E, XDS3104E )
Vertical Resolution	14 bits
Amplitude Range	2mVpp - 6Vpp
Waveform Length	8K
Standard Waveform	Sine, Square, Pulse, Ramp
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, Noise, and others, total 46 built-in waveforms, and user-defined arbitrary waveform

## Optional Module / Function

VGA	VGA+AV port
WIF	Wifi
AWG	arb waveform generator
DMM	Digital multimeter
MTS	Touch screen(capacitor-type)

## Optional Decoding Kit

RS232	RS232
SPI	SPI
I <sup>2</sup> C	I <sup>2</sup> C
CAN	CAN

## Part Number Table

Description	Part Number
4 Channel Digital Storage Oscilloscope, 100MHz	MP720025 EU-UK

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