

# Dual Channel PC Based Oscilloscope

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## Features

- Up to 100MHz bandwidth, and max. 1GS/s real-time sample rate
- 2 Channels
- Max 10M record length
- Friendly UI : FFT, or X-Y, and waveform 2 views displayed on the same screen
- Multi-trigger option: edge, video, slope, pulse, and alternate
- USB isolation - less signal interference, more PC protection
- USB bus powering, and LAN remote control (optional)
- Ultra-thin body design, easy portability
- SCPI supported
- LabVIEW supported (only in MP720019 EU-UK)

## Oscilloscope Specifications

Parameters	MP720017 EU-UK	MP720016 EU-UK	MP720018 EU-UK	MP720019 EU-UK
Bandwidth	25MHz		60MHz	100MHz
Channel	2 Analogue, 1 Ext Trigger			
Sample Rate	100MSa/s		1GSa/s	
Horizontal Scale (s/div)	5ns/div ~ 100s/div, step by 1~2~5			2ns/div ~ 100s/div, step by 1~2~5
Rise Time	≤14 ns		≤5.8 ns	≤3.5 ns
Record Length	5K		10M	
Input Coupling	DC, AC, GND			
Input Impedance	1MΩ±2%, in parallel with 10pF ±5pF			
Channels Isolation	50Hz : 100 : 1, 10MHz : 40 : 1			
Max Input Voltage	400V (PK - PK) (DC+AC, PK - PK)		40V (PK - PK) (DC+AC, PK - PK)	
DC Gain Accuracy	±3%			
DC Accuracy	Average≥16: ±(3% reading + 0.05div) for ΔT			
Probe Attenuation Factor	1X, 10X, 100X, 1000X			
LF Respond (AC, -3dB)	≥5Hz (at input, AC coupling, -3dB)			
Sampling Rate / Relay Time Accuracy	150ps			
Interpolation	sin(x) / x			

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Parameters		MP720017 EU-UK	MP720016 EU-UK	MP720018 EU-UK	MP720019 EU-UK
Interval ( $\Delta T$ ) Accuracy (full bandwidth)		Single: $\pm (1 \text{ interval time} + 100\text{ppm} \times \text{reading} + 0.6\text{ns})$ , Average >16: $\pm (1 \text{ interval time} + 100\text{ppm} \times \text{reading} + 0.4\text{ns})$			
Vertical Resolution (A/D)		8 bits (2 channels simultaneously)			
Vertical Sensitivity		5mV/div ~ 5V/div			
Trigger Type		Edge, Pulse, Video, Slope, and Alternate			
Trigger Mode		Auto, Normal, and Single			
Trigger Level		$\pm 5$ divisions from screen center			
Acquisition Mode		Sample, Peak Detect, and Average			
Line / Field Frequency (video)		NTSC, PAL, and SECAM standard			
Cursor Measurement		$\Delta V$ , and $\Delta T$ between cursors			
Automatic Measurement		Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B ↗, Delay A→B ↘, +Width, -Width, +Duty, -Duty			
Waveform Math		+, -, ×, ÷, invert, FFT			
Lissajous Figure	Bandwidth	Full bandwidth			
	Phase Difference	$\pm 3$ degrees			
Communication Interface		USB 2.0 (isolation)	USB 2.0	USB 2.0, LAN (optional)	
Multi-function Interface	Signal Type	Synchronized input / output, Pass / Fail, external trigger input			
	Level Standard	TTL			
Power Supply		5.0V/1A			
Power Consumption		$\leq 1.5\text{W}$		$\leq 5\text{W}$	
Dimensions (W × H × D)		170mm × 120mm × 18mm		190mm × 120mm × 18mm	
Device Weight		0.26 kg			0.3 kg
Standard Accessories Included		USB Cable, CD-Rom, Manual, Probes, Probe Adjust Tool			
Optional Accessories		Soft bag			
Warranty		03 years			

## Part Number Table

Description	Part Number
Dual Channel PC Based Oscilloscope, 25MHz	MP720016 EU-UK
Dual Channel PC Based Oscilloscope, 25MHz	MP720017 EU-UK
Dual Channel PC Based Oscilloscope, 60MHz	MP720018 EU-UK
Dual Channel PC Based Oscilloscope, 100MHz	MP720019 EU-UK

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