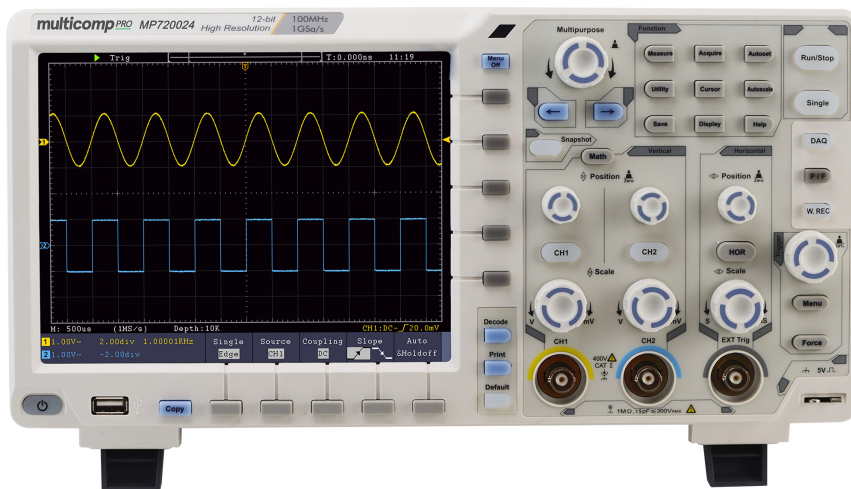


# Dual Channel Digital Storage Oscilloscope

**multicomp**PRO



## Features

- 12-bit high resolution ADC, restoring the waveform detail fully
- 20M record length, and 55,000 wfms/s waveform refresh rate
- Low background noise, vertical sensitivity in 1 mV/div - 10 V/div
- Multi- trigger, and bus decoding function
- SCPI, and LabVIEW supported
- Ultra-thin body-design, less space accommodation
- Multi-interface integration - USB host, USB device, USB port for PictBridge, LAN, AUX, and more
- VGA port - better solution for video expansion, and teaching demonstration
- 8" 800 × 600 high resolution LCD Display

## Oscilloscope Specifications

Bandwidth	100MHz
Sample Rate	1GS/s (8 bits) 500MS/s (12 bits)
Vertical Resolution (A/D)	12 bits
Record length	20M
Waveform Refresh Rate	55,000 wfms/s
Horizontal Scale (s/div)	2ns/div - 1000s/div, step by 1~2~5
Rise Time (at input, typical)	≤3.5ns
Channel	2 + 1 Ext Trigger
Display	8" colour LCD, 800 × 600 pixels
Input Impedance	1MΩ ± 2%, in parallel with 15pF ±5pF
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1
Max Input Voltage	1MΩ ≤ 300Vrms
DC Accuracy	Average≥16: ±(3% reading + 0.05 div) for ΔV
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)
Sample Rate / Relay Time Accuracy	±1 ppm (TYP, Ta=+25°C)

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Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

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Interpolation	sin(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, and 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	
Bus Decoding	I <sup>2</sup> C, SPI, RS232, and CAN	
Trigger Mode	Auto, Normal, and Single	
Vertical Range	$\pm 2 \text{ V}$ ( 1mv/div - 50mv/div), $\pm 20 \text{ V}$ ( 100mv/div - 1V/div), $\pm 200 \text{ V}$ (2V/div - 10V/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, 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 Edge Count	
Waveform Math	+, -, ×, ÷, FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)	
Waveform Storage	50 waveforms	
Lissajou's Figure	Bandwidth	Full bandwidth
	Phase Difference	$\pm 3$ 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	
Power Consumption	<15W	
Fuse	2A, T class, 250V	
Dimension (W × H × D)	340mm × 177mm × 90mm	
Weight	2.4kg	
Standard Accessories Included	Power cord, USB cable, CD-Rom.Manual, Probes, Probe Adjust Tool	
Optional Accessories	Soft bag	
Power Cord Plug Type	US	
Warranty	03 years	

## Part Number Table

Description	Part Number
Dual Channel Digital Storage Oscilloscope, 100MHz	MP720024 US

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