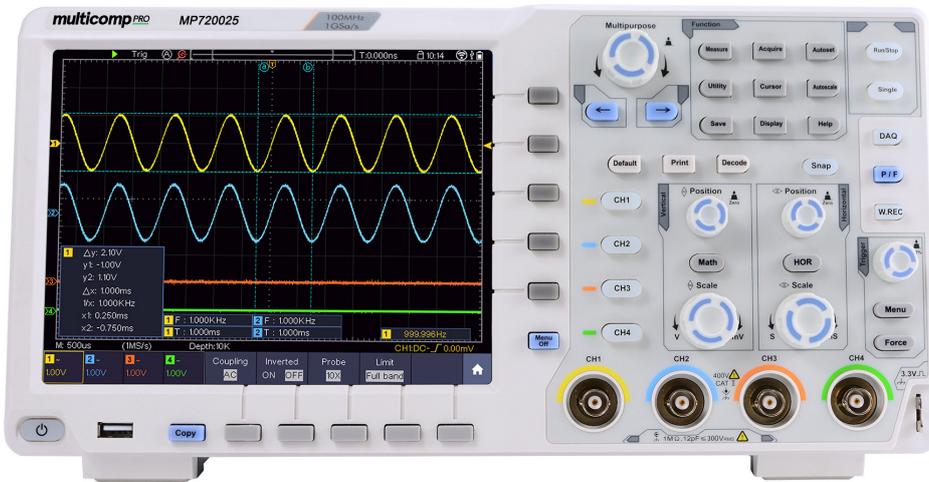


4 Channel Digital Storage Oscilloscope

multicomp PRO



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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4 Channel Digital Storage Oscilloscope

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| | | |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Interpolation | (sinx) / x,x | |
| Interval (ΔT) 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 ² 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 | ΔV , and ΔT between cursors, ΔV and ΔT 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 |
| | ± 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 ² C | I ² C |
| CAN | CAN |

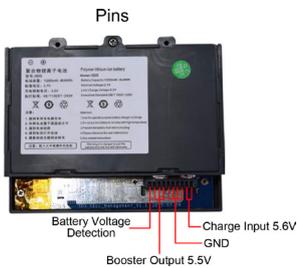
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4 Channel Digital Storage Oscilloscope

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 | |

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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