Features

- 12-bit high resolution ADC, restoring the waveform detail fully
- 20M record length, and 55,000wfms/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

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Channel Digital Storage Oscilloscope, 100MHz</td>
<td>MP720024 EU-UK</td>
</tr>
</tbody>
</table>

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### Interpolation
\[ \sin(x) / x \]

### Interval (\(\Delta T\)) 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, and GND

### Vertical Sensitivity
1mV/div - 10V/div (at input)

### Trigger Type
- Edge, Video, Pulse, Slope, Run, Windows, Timeout, Nth Edge, Logic, I2C, SPI, RS232 and CAN

### Bus Decoding
- I2C, SPI, RS232, and 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
- \(\Delta V\), and \(\Delta T\) between cursors, \(\Delta V\) and \(\Delta T\) between cursors, and auto-cursors

### Automatic Measurement
- Vpp, Vavg, Vrms, Freq, Period, Week 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: ±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
- UK / EU

### Warranty
- 12 months