Dual Channel Digital Storage Oscilloscope

Features
- Bandwidth: 100MHz
- Sample rate: 1GS/s
- Ultra-thin body
- 8” high resolution LCD Display
- Pass / Fail function
- SCPI, and LabVIEW supported
- Newly added function - digital filtering, and current measurement

Oscilloscope Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bandwidth</td>
<td>100MHz</td>
</tr>
<tr>
<td>Sample Rate (real time)</td>
<td>1GS/s</td>
</tr>
<tr>
<td>Horizontal Scale (s/div)</td>
<td>2ns/div ~ 100s/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 (external)</td>
</tr>
<tr>
<td>Display</td>
<td>8” colour LCD, 800 × 600 pixels</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>1MΩ ± 2%, in parallel with 15pF±3pF</td>
</tr>
<tr>
<td>Channel Isolation</td>
<td>50Hz : 100 : 1, 10MHz : 40 : 1</td>
</tr>
<tr>
<td>Max Input Voltage</td>
<td>400V (PK - PK) (DC+AC, PK - PK)</td>
</tr>
<tr>
<td>DC Gain Accuracy</td>
<td>±3%</td>
</tr>
<tr>
<td>Record Length</td>
<td>1M (optional 10M)</td>
</tr>
<tr>
<td>DC Accuracy (average)</td>
<td>Average≥16: ±(3% reading + 0.05 div) for ΔV</td>
</tr>
<tr>
<td>Probe Attenuation Factor</td>
<td>1X, 10X, 100X, 1000X</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>±100ppm</td>
</tr>
<tr>
<td>Interpolation</td>
<td>sin (x) / x</td>
</tr>
</tbody>
</table>
### Dual Channel Digital Storage Oscilloscope

**Interval (ΔT) Accuracy**
- Single: ±(1 interval time + 100ppm × reading + 0.6ns)
- Average > 16: ±(1 interval time + 100ppm × reading + 0.4ns)

**Input Coupling**
- DC, AC, and GND

**Vertical Resolution (A/D)**
- 8 bits (2 Channels simultaneously)

**Vertical Sensitivity**
- 2mV/div ~ 10V/div (at input)

**Digital Filtering**
- low-pass, high-pass, band-pass, and band-reject

**Trigger Type**
- Edge, Pulse, Video, Slope, and Alternate

**Trigger Mode**
- Auto, Normal, and Single

**Trigger Level**
- ±6 divisions from screen centre

**Line / Field Frequency (video)**
- NTSC, PAL, and SECAM standard

**Cursor Measurement**
- ΔV, and ΔT between cursors

**Automatic Measurement**
- Vpp, Vavg, RMS, Frequency, Period, Vmax, Vmin, Vtop, Vbase, Width, Over-shoot, Pre-shoot, Rise time, Fall time, +Width, -Width, +Duty, -Duty, Delay A→B , Delay A→B

**Waveform Math**
- +, -, ×, ÷, invert, FFT

**Waveform Storage**
- 15 waveforms

**Lissajous Figure**
- Bandwidth: Full bandwidth
- Phase Difference: ±3 degrees

**Communication Interface**
- USB host, USB device, Pass / Fail, LAN, and VGA (optional)

**Cymometer**
- Available

**Power Consumption**
- <18W

**Fuse**
- 2A, T class, 250V

**Battery**
- Not supported

**Dimension (W×H×D)**
- 348mm × 170mm × 78mm

**Weight (without package)**
- 1.5 kg

**Power Supply**
- 100V AC to 240V AC, 50/60Hz, CAT II

**Power Cord Plug Type**
- UK / EU

**Standard Accessories Included**
- Power cord, USB cable, CD-Rom, Manual, Probes, Probe Adjust Tool

**Optional Accessories**
- Soft bag

**Warranty**
- 12 months

### Part Number Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Channel Digital Storage Oscilloscope, 100MHz</td>
<td>MP720012 EU-UK</td>
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</table>

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