# Tektronix®

## Compact, Reliable Oscilloscope Makes Manufacturing Testing and Design Validation Easier

Allow your manufacturing and industrial customers more time to innovate and less time fixing old designs.

## The NEW 2 Series Mixed-Signal Oscilloscope

As the fastest growing industry in the world, manufacturing has never been safer, more creative and connected so their measurement technology must be on the same wavelength. Engineers need reliable tools that can test and troubleshoot with speed and accuracy.

### Small Footprint, Programmability, and Backward Compatibility

The 2 Series MSO is a full-featured oscilloscope in a compact form factor that saves bench space. The optional rackmount kit makes it easy to integrate the 2 Series with other equipment. The SCPI Programmable interface commands can be used to remotely control the scope via USB or ethernet port. Compatibility mode makes replacing an older model scope easier without rewriting code, making this a perfect choice for manufacturing engineers.

### Fast Failure Analysis with Limit/Mask Testing

Limit/Mask testing is a standard feature on the 2 Series MSO. These comprehensive features allow engineers to test and validate using a golden reference signal or user-defined tolerances. Mask tools include test duration, violation thresholds, failure statistical information, and action creation that could be widely used for mass quality control on the production floor.

### Efficient Board Rework and Troubleshooting

Failure analysis of rejected parts or part reworking for future improvement is a standard part of the manufacturing flow. The 2 Series MSO is equipped with advanced triggers, automated measurements, complex math, protocol triggering, and decoding capabilities that enable troubleshooting with speed and accuracy.

### Easy Data Sharing and Offline Analysis

Natively integrated, TekDrive and TekScope give users access to store, share, test and compare waveforms from any location. Allowing manufacturing engineers, the freedom to share data with design engineers, customers, and reliability, compliance team to analyze and root cause from any location reducing problem-solving time.

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## 2 Series MSO Key Specifications

| | MSO22 | MSO24 |
|---|---|---|
| Analog Channels | 2 | 4 |
| Bandwidth | 70 MHz, 100 MHz, 200 MHz, 350 MHz, 500 MHz | |
| Sample Rate | 1.25 GS/s (All), 2.5 GS/s (Half) | |
| Record Length | 10 Mpts all channels | |
| Battery Operation | 2 Slot, hot swappable with up to 8 hours | |
| Advanced Triggers | Edge, Pulse Width, Timeout, Setup & Hold, Rise/Fall Time, Parallel Bus | |
| Standard Analysis | Cursors: Waveform, V bars, H bars, and V&H bars, Math: Basic waveform arithmetic, FFT, and advanced equation editor | |
| Digital Channels (MSO) | 16 | |
| Function Generator | 50 MHz, single channel with 128k point arbitary waveform | |
| Digital Pattern Generator | 4 bit | |
| Protocol Analysis | I2C, SPI, UART, CAN, CAN-FD, LIN, SENT | |
| Display | 10.1-inch, WXGA, color, touch | |
| VESA | 100 mm x 100mm | |
| Warranty | 1 year | |
| TekDrive[1] | Collaborative workspace to save, recall, and share scope data | |
| TekScope[1] | Extend data visualization and analysis capabilities to your PC | |
| Kickstart | Quick data plotting and statistical summaries | |
| Optional Service Plans | Extended warranties, Total Product Protection Plan, and calibration services plans available | |

[1] 6 month subscription included with purchase

## Companion Products for Manufacturing Testing

Consider pairing these recommended bench instruments alongside the 2 Series MSO for a complete manufacturing testing solution. These industry-leading instruments help engineers move as fast and efficiently as their designs.

**4 Channel Probes**

**Battery Pack**

**2230 Power Supply**

**3706DMM Digital Multimeter**

**AFG31000**
**Arbitrary Function Generator**

**Vesa Mount**