



This changes everything.

Introducing the 5 Series MSO.

The largest display. The most channels.

The greatest experience.



15.6"
HD display



Pinch-swipe-zoom
touchscreen



4, 6, or 8
FlexChannel® inputs



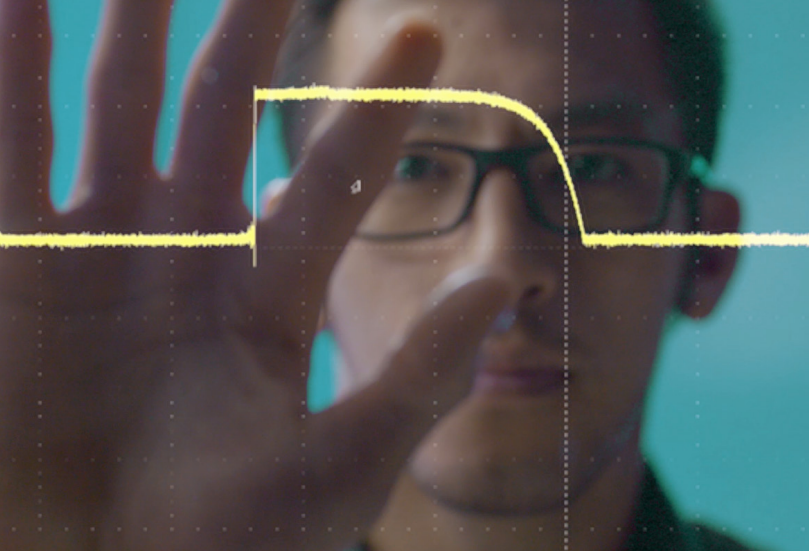
12-bit analog to
digital converters



350 MHz to 2 GHz
bandwidth



Starting
at \$12k



More than a remarkably intuitive user interface: a delightful experience.

Get the big picture and take total control, with the 15.6-inch HD touchscreen display. Use the capacitive pinch-zoom-swipe touchscreen, front panel controls, or mouse to analyze and manage multiple signals without fighting through menus.



Swipe to navigate through signals



Pinch to scale waveforms



Drag-and-drop cursors and measurements

Let no detail go unseen, with up to 16 bits of vertical resolution.

12-bit analog to digital converters deliver up to 16 bits of vertical resolution using advanced digital signal processing. See and measure small signal details, even if they're riding on large signals.

Buy what you need now. Add on as your needs change.

Performance

Bandwidth up to 2 GHz
Record Length up to 125 Mpoints

Digital Inputs

TLP058 Logic Probes each provide 8 digital channels

Operating System

Add Windows 10 OS to run PC software on the scope

Signal Generation

Add a built-in Arbitrary/Function Generator

Serial Bus Decode/Trigger

Support for key buses like I²C, SPI, USB 2.0, Ethernet, CAN, LIN, and many others

Advanced Analysis

Automated power supply measurement and analysis
Comprehensive jitter decomposition and eye-diagram analysis

Don't run out of channels.

Available with 4, 6, or 8 FlexChannel[®] inputs. Each can be used to look at 1 high-resolution analog waveform or 8 digital logic waveforms, just by changing the probe.

FlexChannel Input



1 high-resolution analog input

8 digital logic inputs per channel

NEW

- Automated power measurements
- SENT bus decode/trigger
- Automotive Ethernet compliance
- Aerospace bus decode/trigger

Powerful Analysis

- 36 standard measurements with trend, histogram, and spectrum plots
- Advanced Jitter Analysis option
- **NEW!** Power Measurement option

15.6" HD (1,920 x 1,080) display w/ capacitive touchscreen

Next generation user interface designed for both touch and mouse

- Provides simple, intuitive scope operation
- Access controls directly through objects on the display rather than navigating menus to get to menus

Record length

- 62.5 Mpts Standard
- 125 Mpts Optional

12-bit ADCs and new High Res mode offer up to 16-bit vertical resolution

Built in Arbitrary/Function Generator option

FlexChannel inputs

- 1 analog or 8 digital signals each

Available bandwidth (upgradeable)

- 350 MHz
- 500 MHz
- 1 GHz
- 2 GHz

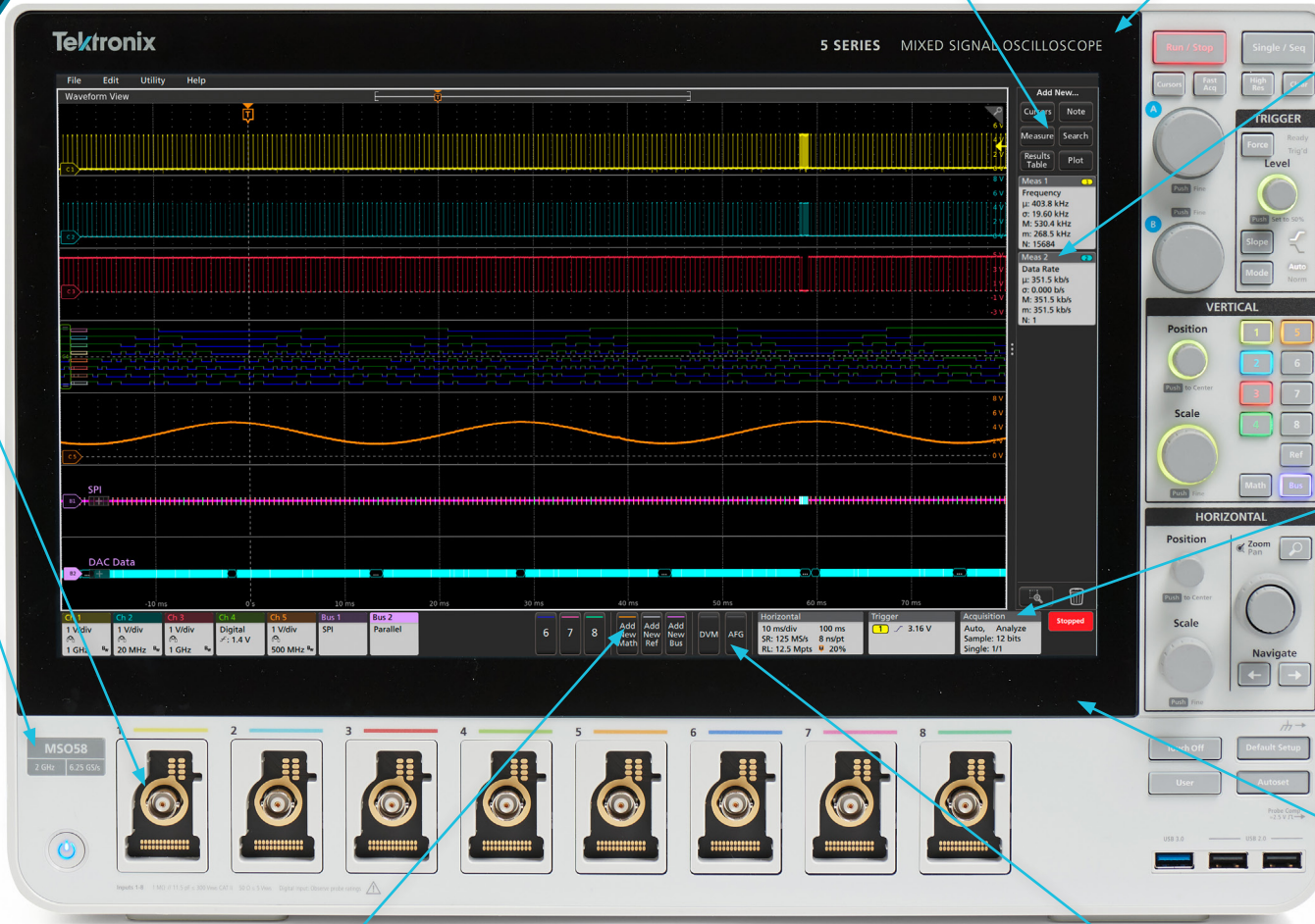
Protocol options

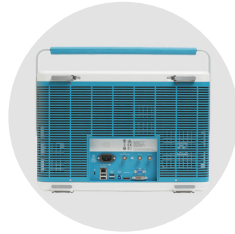
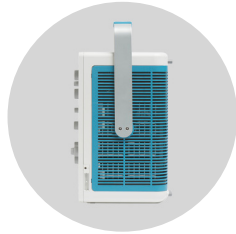
Serial bus trigger and analysis

- I²C/SPI
- RS-232/UART
- CAN/CAN FD/LIN/FlexRay
- USB 2.0
- Ethernet
- Audio
- **NEW!** Aerospace
- **NEW!** SENT

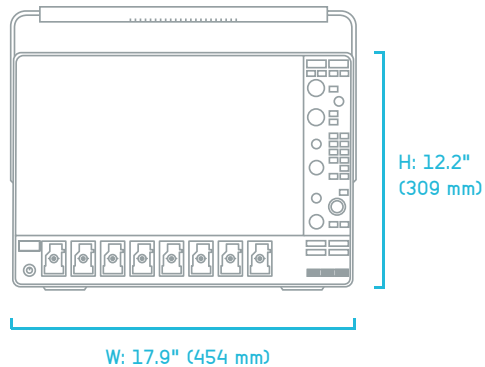
When removable SSD w/ Windows 10 license is:

- Installed: scope boots as open Windows OS (w/ desktop)
- Not installed: scope boots as a dedicated scope

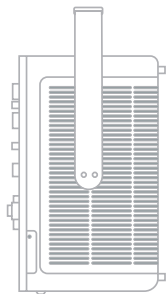




Strength in numbers.



W: 17.9" (454 mm)



D: 8.0" (204 mm)

NEW! The 5 Series MSO is now available in a low-profile rackmount version called MSO58LP.

Input Channels

4, 6, or 8 FlexChannel inputs
Each FlexChannel® provides 1 analog signal input, or 8 digital logic inputs with TLP058 logic probe

Bandwidth¹

350 MHz, 500 MHz, 1 GHz, 2 GHz

Sample Rate

Real-time: 6.25 GS/s on all analog / digital channels
Interpolated: 500 GS/s

Record Length

62.5 Mpoints standard on all analog / digital channels
125 Mpoints optional on all analog / digital channels¹

Vertical Resolution

12-bits standard, up to 16-bits in High Res mode

Trigger Types

Edge, Pulse Width, Runt, Timeout, Window, Logic, Setup & Hold, Rise/Fall Time, I²C¹, SPI¹, USB¹, Ethernet¹, CAN¹, CAN FD¹, LIN¹, FlexRay¹, RS-232/422/485/UART¹, I²S/LJ/RJ/ TDM¹, MIL-STD-1553¹, ARINC429¹, **NEW** SENT¹, Parallel, Sequence

Standard Analysis

Cursors: Waveform, V Bars, H Bars, V&H Bars, Split
Measurements: 36 standard, along with Trend, Histogram and Spectrum Plots of measurement results.
Math: Basic Waveform Arithmetic, FFT, and Advanced Equation Editor
Search: Search on any trigger criteria
Jitter: TIE and Phase Noise

Optional Arbitrary / Function Generator¹

Arbitrary, Sine, Square, Pulse, Ramp, Triangle, DC Level, Gaussian, Lorentz, Exponential Rise/Fall, Sin(x)/x, Random Noise, Haversine, Cardiac

Digital Voltmeter²

4-digit

Trigger Frequency Counter²

8-digit

Display

15.6-inch (385 mm) TFT color
HD (1,920 x 1,080) resolution
Capacitive (multi-touch) touchscreen

Connectivity

USB Host (x7), USB Device, LAN (10/100/1000 Base-T Ethernet; LXI Compliant), Display Port, DVI-D, Video Out (**NEW** Security option locks ports)

Optional Serial Bus Decode and Analysis¹

I²C, SPI
RS-232/422/485/UART
USB 2.0
Ethernet
I²S, LJ, RJ, TDM
CAN, CAN FD, LIN, FlexRay, MIL-STD-1553, ARINC429, **NEW** SENT

Optional Analysis¹

Advanced Jitter and Eye Diagram Analysis,
NEW Automated Compliance Testing for Automotive Ethernet, **NEW** Automated Power Measurement and Analysis

¹ Optional and Upgradeable

² Free with product registration

Visit us at TEK.COM/5SERIESMSO or call 1-800-833-9200 for more information.

