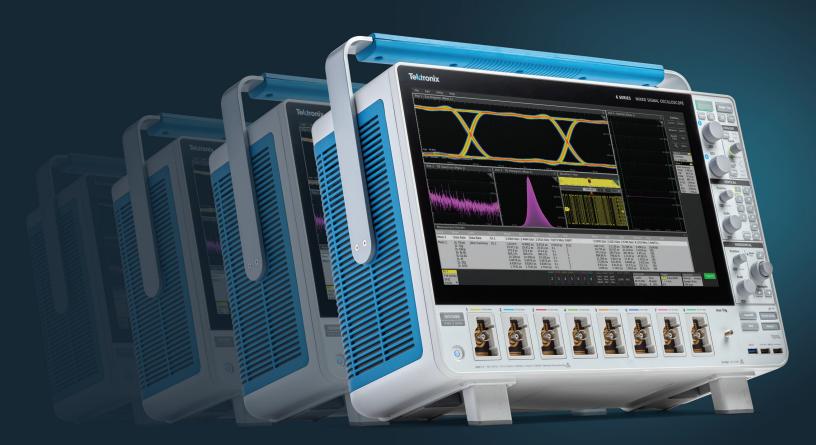
Tektronix

Evolution of the Tektronix Touchscreen Oscilloscope



In 2017, Tektronix launched the 5 Series MSO Oscilloscope, the first oscilloscope designed from the ground up with a touch interface. That was just the beginning.

Since then, regular updates, added functionalities, new capabilities and new models and series have been added, enabling engineers to keep innovating with ever-increasing ease and accuracy.

View the timeline to get the complete picture.

Evolution of the Tektronix Touchscreen Oscilloscope

With regular updates and added functionalities, the value of your Tektronix oscilloscope is always increasing.



5 Series MSO

- Redefines midrange oscilloscopes UX with large 15.6" capacitive touchscreen
- Industry's first FlexChannel™ technology enabling up to 8 analog and 64 digital channels
- Wins 6 major awards including Electronic Weekly Product of the Year

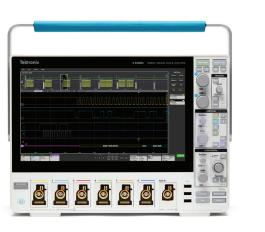
4 Series MSO

- Largest display (13.3") with highest resolution (1920 x 1080 HD) in its class
- 12-bit ADCs for the highest vertical resolution in its class
- First scope in this class to offer six input channels with innovative FlexChannel™ technology



6 Series B MSO

- Industry's first 10 GHz oscilloscope offering up to 8 analog and 64 digital channels
- Leading signal fidelity with 12-bit ADCs and exceptionally low noise, contributing less than 51.1 μV of noise at 1 mV/div and 1 GHz



OCTOBER

4 Series B MSO

- Faster processor for 2X more responsive user interface, faster analysis, and faster data transfers
- New display technology for greater contrast and wider viewing angle
- 2 USB 3.1 host interfaces
- Full support for e*Scope browser-based remote access and control

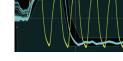
OCTOBER

- ARINC429 serial trigger
- MIL-STD-1553 serial trigger / decode
- CAN-FD serial trigger / decode



- measurements
- SENT decode and fast channel trigger
 - Autoset enhancements
 - (optimal use of ADC Stop acquisitions on

search event found



- decode solution
- Mount network drives
- Radix-specific keypad for IP addresses



SPMI serial trigger and (6 Series)

- Ethernet 100/1000 BASE-T compliance
- DDR3 and LPDDR3
- Bode plots



OCTOBER

automated compliance

2019

- - 10GBASE-T compliance
- analysis and debug



Spectrum view multichannel, synchronized spectrum analysis

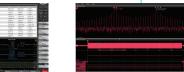
- Ethernet NBASE-T and
- CAN .DBC v symbolic
- I3C decoding solution



- Digital power management option
- Impedance measurements added

measurements

decoding



DDR3 automated conformance testing

- (5/6-PWR) Time-gated



RF vs time (magnitude, frequency, phase)

- PAM3 measurement
 - 1000BASE-T1 decode
- Wide capture bandwidth



solution

- Mask testing
- 8b10b decode
- NRZ decode solution



- Inverters, motors and drives analysis (IMDA)
 - Video triggering
- PSI5 decode



RF vs time triggering

- SVID decode
- Phase noise plots
 - MDIO decode



NOVEMBER

added to TekScope

MIPI D-PHY 1.2 decode

SDLC decode solution

compliance

- Multi-lane ethernet
- Eye mask added to - DQ0 measurements jitter analysis solution

2021



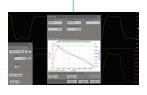
Application bundles

- Vector signal analyisis (SignalVu-PC)
- MIPI C-PHY (CSI/DSI)
- decode



automotive ethernet compliance

- CurveStream fast transfer via LAN
- eSPI decode
 - CXPI decode



SEPTEMBER

to user-defined filters

- EtherCAT decode
- Hall sensor measurements

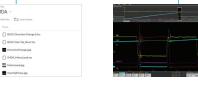
added to IMDA



2022

SMBus decode

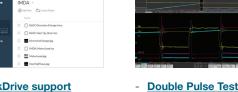




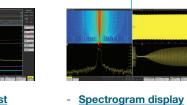
- History mode

results tables

Spectrum marker



- added for session files Act on Event timers
- Hardware averaging
- - transfers Motor power



RF power measurements

Motor resolver

measurements

Multi-channel cursors Save/recall mask files

2023

Waveform histograms Measurement annotations

NFC wireless decoding

Double pulse test

deskew

NFC: ISO/IEC 14443B and FeliCa decode



mask definition

NOVEMBER



- Most sophisticated waveform analysis PC software in the test and measurement market



- New auxiliary trigger enables sync without consuming a full-capability input channel
- 2x faster waveforms from the built-in function generator for frequency response analysis and general-purpose use

Batch measurement

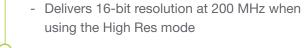
measurements

Solid state drive system stores data on removable drive for added security

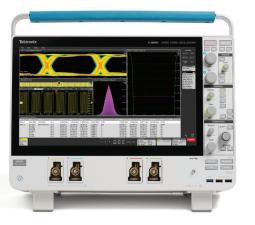


6 Series MSO

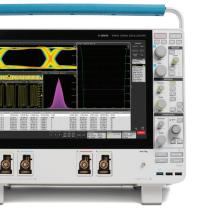
- First midrange scope with 8 GHz bandwidth and 25 GS/s sample rate simultaneously on all 4 channels
- Incorporates a new low-noise preamplifier ASIC, the TEK061















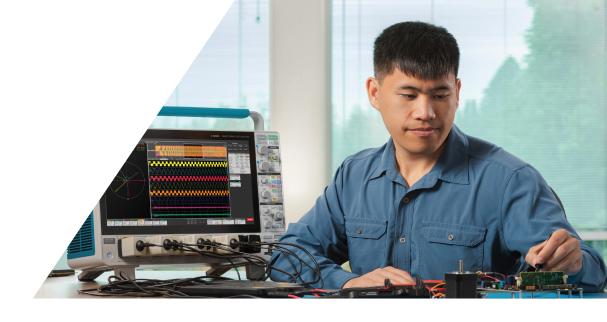








 Enables remote users to view and analyze data from up to 32 channels from multiple scopes at the same time in the same interface



Support for Your Applications

Tektronix touchscreen oscilloscopes offer solutions for major testing standards and support for applications in embedded systems, digital communications, high speed serial, power, automotive, wideband RF analysis and more.

Learn more with these application notes (click the links below):

Power Integrity and Power Management

Jitter Analysis

Automotive Serial Bus Analysis

Embedded Serial Bus Analysis

Serial Bus Compliance Testing (USB 2.0 example)

Electromagentic Interference (EMI) Troubleshooting

3-phase Invertors, Motors and Drives









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