



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

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

2017

2018

2019

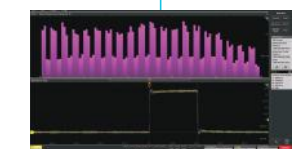
2020

2021

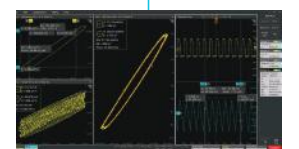
2022

2023

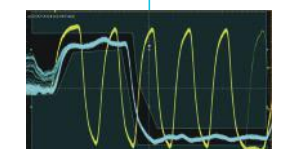
NOVEMBER FEBRUARY JULY OCTOBER MARCH MAY JULY OCTOBER FEBRUARY APRIL NOVEMBER FEBRUARY JUNE SEPTEMBER JANUARY JUNE OCTOBER MAY OCTOBER NOVEMBER



- **FastFrame segmented memory**
- Windows® 10 OS
- ARINC429 serial trigger / decode
- MIL-STD-1553 serial trigger / decode
- CAN-FD serial trigger / decode



- **New 5/6-PWR measurements**
- SENT decode and fast channel trigger
- Autoset enhancements (optimal use of ADC range)
- Stop acquisitions on search event found



- **Visual trigger**
- SPMI serial trigger and decode solution
- Mount network drives
- Radix-specific keypad for IP addresses



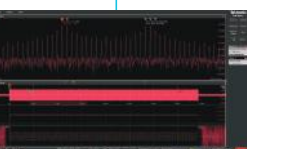
- **MIPI D-PHY 1.2 automated compliance (6 Series)**
- Ethernet 100/1000 BASE-T compliance
- DDR3 and LPDDR3 analysis and debug
- Bode plots



- **Spectrum view multi-channel, synchronized spectrum analysis**
- Ethernet NBASE-T and 10GBASE-T compliance
- CAN .DBC v symbolic decoding
- I3C decoding solution



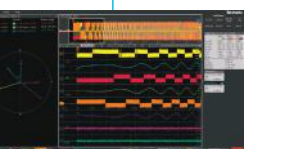
- **DDR3 automated conformance testing**
- Digital power management option
- Impedance measurements added (5/6-PWR)
- Time-gated measurements



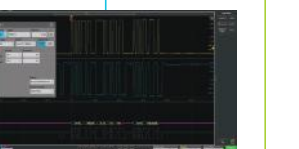
- **RF vs time (magnitude, frequency, phase)**
- PAM3 measurement
- 1000BASE-T1 decode
- Wide capture bandwidth



- **LVDS measurements solution**
- Mask testing
- 8b10b decode
- NRZ decode solution



- **Inverters, motors and drives analysis (IMDA)**
- Video triggering
- Phase noise plots
- PSIS decode



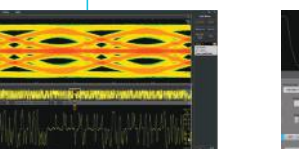
- **eUSB decode**
- RF vs time triggering
- SVID decode
- MDIO decode



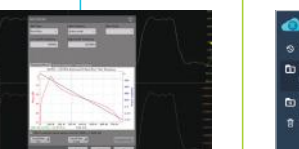
- **Multi-scope support added to TekScope**
- MIPI D-PHY 1.2 decode
- SDLC decode solution
- Multi-lane ethernet compliance
- DQ0 measurements



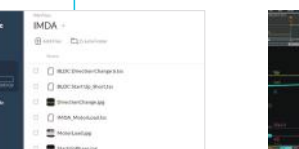
- **Application bundles added**
- Vector signal analysis (SignalVu-PC)
- MIPI C-PHY (CSI/DSI) decode
- Eye mask added to jitter analysis solution



- **Multi-gigabit automotive ethernet compliance**
- CurveStream fast transfer via LAN
- eSPI decode
- CXPI decode



- **Custom filters added to user-defined filters**
- EtherCAT decode
- SMBus decode
- Hall sensor measurements added to IMDA



- **TekDrive support added for session files**
- History mode
- Hardware averaging
- Spectrum marker results tables



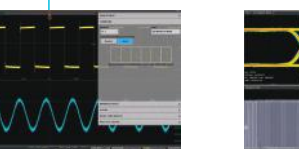
- **Double Pulse Test**
- Act on Event timers
- Batch measurement transfers
- Motor power measurements



- **Spectrogram display**
- RF power measurements
- Multi-channel cursors
- Motor resolver measurements



- **NFC wireless decoding**
- Waveform histograms
- Save/recall mask files
- Double pulse test deskew



- **e*Scope authentication**
- Measurement annotations
- NFC: ISO/IEC 14443B and FeliCa decode



- **Relative eye diagram mask definition**
- I3C 1.1 decode

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
- Delivers 16-bit resolution at 200 MHz when using the High Res mode



TekScope PC Software with Enhanced Multi-Scope Analysis

- Enables remote users to view and analyze data from up to 32 channels from multiple scopes at the same time in the same interface
- Most sophisticated waveform analysis PC software in the test and measurement market



5 Series B MSO

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





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 \(USB 2.0 example\)](#)

[Electromagnetic Interference \(EMI\) Troubleshooting](#)

[3-phase Invertors, Motors and Drives](#)



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