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



4 Series B MS0

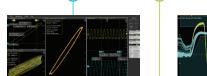
- Faster processor for 2X more responsive user interface, faster analysis, and faster data transfers
- New display technology for greater contrast and wider viewing angle
- 2 USB 3.1 host interfaces
- Full support for e*Scope browser-based remote access and control

Measurement annotations

- NFC: ISO/IEC 14443B and

FeliCa decode

- ARINC429 serial trigger
- 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
 - Stop acquisitions on search event found



automated compliance

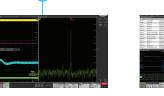
Bode plots

- SPMI serial trigger and decode solution
- Mount network drives Radix-specific keypad
- for IP addresses
- (6 Series) Ethernet 100/1000
- BASE-T compliance DDR3 and LPDDR3 analysis and debug



OCTOBER

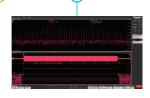
- - spectrum analysis Ethernet NBASE-T and
- CAN .DBC v symbolic decoding
- I3C decoding solution



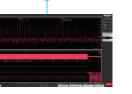
- channel, synchronized
 - Digital power management option

measurements

- 10GBASE-T compliance
 - Time-gated



- frequency, phase)
- Impedance measurements added



- conformance testing



- PAM3 measurement
- (5/6-PWR)



- 1000BASE-T1 decode
- Mask testing 8b10b decode
- Wide capture bandwidth



NRZ decode solution

OCTOBER

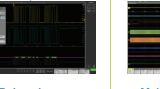
Inverters, motors and drives analysis (IMDA)

2020

Video triggering

- PSI5 decode

Phase noise plots



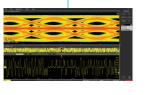
- added to TekScope RF vs time triggering
- SVID decode
- SDLC decode solution MDIO decode

NOVEMBER

MIPI D-PHY 1.2 decode

DQ0 measurements

- Multi-lane ethernet compliance
- Vector signal analyisis (SignalVu-PC)
- MIPI C-PHY (CSI/DSI) decode
- Eye mask added to jitter analysis solution



- Multi-gigabit automotive etherne <u>compliance</u>
- CurveStream fast
- transfer via LAN eSPI decode

- CXPI decode

Hall sensor measurements added to IMDA



- to user-defined filters
- EtherCAT decode

2022

SEPTEMBER

SMBus decode



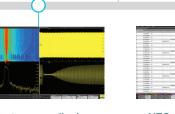
- added for session files
- History mode Hardware averaging
- Spectrum marker results tables



- **Double Pulse Test** - Act on Event timers



- Batch measurement transfers
- Motor power measurements



2023

Spectrogram display RF power measurements

OCTOBER

- - Multi-channel cursors Motor resolver measurements



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

deskew



mask definition Power FET deadtime

NOVEMBER

USB 3.0 decode

CAN XL Decode

- Port passwords
- PCle Gen 1, 2, 3 decode

interface

TekHSI high-speed

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

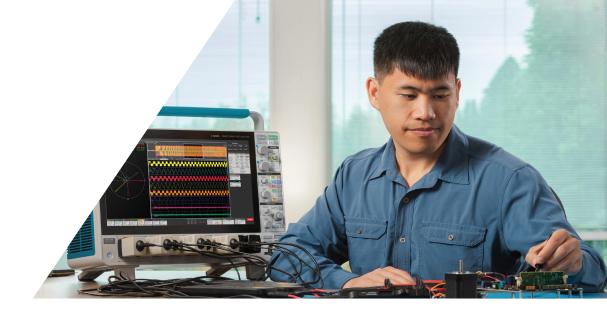


Get more for less with **Application Software Bundles**

- Serial Decode - Power
- Signal Integrity
- Standards Compliance Automotive
- Aerospace

- Ultimate Bundle

Download Brochure



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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