

TekScope™ Analysis Datasheet

Analyze Anywhere Anytime



TekScope brings the power of the oscilloscope analysis environment to the PC. Users have the flexibility to perform analysis tasks including serial decode, power analysis, as well as timing, eye, and jitter analysis outside the lab. You can continue your session from your oscilloscope at any place and share the results. Reduces efforts to see screenshots when you need to dive deeper or while sharing. Reload the session on your 4/5/6 oscilloscope, if you want to redo the measurement.

Waveform data and setup in sessions from Tektronix 4/5/6 Series MSO, 5LP/6LPD Series MSO, and waveform data from 3 Series MDO, DPO/MSO/MDO3000, DPO/MSO/MDO4000, DPO7000C, or DPO/MSO70000C/D/DX/SX Series Oscilloscopes can quickly be shared between team members and remote sites, resulting in improved efficiency.

Key features

• Collaborate

- TekScope runs on your PC: Enables better time and resource utilization; view, measure, and analyze data captured in your lab, independent of the oscilloscope hardware.
- Compatible with most common save/recall waveform files: Common analysis tools independent of the hardware acquisition, including:
 - .tss (4/5/6 Series session files – setups and waveforms)
 - .wfm, .isf (Tektronix)
 - .bin (Keysight)
 - .trc (Lecroy)
 - .tr0 (Spice)
 - .csv (general purpose)

• Analyze

- Cursors: Waveform, V Bars, H Bars, and V&H Bars
- Measurements: 34 standard
- Plots: Time Trend, Histogram, Spectrum, XY, and XYZ
- Math: Basic waveform arithmetic, FFT, and advanced equation editor
- Search: Quickly find events in your data based on specified criteria
- Clocked/unlocked Parallel Bus Decode
- Multi-Scope Analysis: Remotely connect to multiple oscilloscopes to view and analyze real-time data from many channels simultaneously. Connect up to four oscilloscopes and 32 channels.
- Low Speed Protocol Decode: Protocol Decode and Search Analysis of all common Embedded, Automotive, Aerospace, Consumer and Audio protocols.
- Advanced Jitter Measurements and Eye Analysis
- Power Electronic Analysis:
 - Advanced Power Analysis
 - Magnetics Analysis
 - Inverter Motor Drive Analysis
- Power Integrity Analysis:
 - Digital Power Management
 - SPMI Serial Decode and Search
- SpectrumView Analysis: Perform time and frequency domains simultaneously.
- Easy Access to Remote Oscilloscope: Use TekScope to remotely pull data from your oscilloscope and perform offline measurements and analysis.

• Document

- Waveform and plot annotations: Share detailed analysis results; measurements, anomalies, and points of interest for future reference, collaboration with suppliers, or communicating with the team.
- Reports: Easily document measurement results and configuration details with detailed test report.
- Custom display configuration: Group plots in multiple configurations with stacked or overlaid waveform view.

Applications and uses

- Offline analysis: Analyze your waveform files from any location at any time to improve your working efficiency without any internet or intranet connection.

- **Real-Time analysis:** Remotely connect to the newest and most modern Tektronix oscilloscopes to acquire data directly from oscilloscope in real-time. Save time and eliminate unnecessary trips to the lab with data available at your desk, at home, or while traveling.
- **Multi-Scope analysis:** View and analyze data from multiple oscilloscopes on the same screen. Rearrange channel information, stack group, zoom, add cursors or measurements in a seamless interface. Increase your ability to look at a greater number of channels, all in a single view to accelerate your analysis efficiency.
- **Data sharing:** Share waveforms, measurements, and configuration details among distributed team members or suppliers to root cause the source of failures. Dive into the actual data rather than using static screenshots and eyeballing images.
- **Enhance your measurements and analysis options:** Not every oscilloscope has the latest and most modern software options. TekScope enables you to leverage our award-winning 4/5/6 Series user interface and software options and apply them to any Tektronix oscilloscope and to most of competitors' oscilloscopes as well.

TekScope overview

Today's systems become more complex and teams are more distributed across geographies, functional areas of expertise, even partners and suppliers. As many engineers move to off-scope environments, TekScope allows the engineer to process, analyze, and share data efficiently, without having to be physically next to an oscilloscope or in the testing environment. The ease of operating with the TekScope software alongside other tools that you use every day allows faster correlation and insight. These needs range from easy ways to share data, the ability to run measurements outside the lab, and methods to correlating lab measurements with simulation results.

Collaborate - TekScope runs on your PC, enabling analysis of data captured in your lab. Sessions can easily be saved on your Tektronix oscilloscope and recalled at any given time. In addition to Tektronix waveforms, other file formats are supported including .wfm, .isf, .tss, .bin, .trc, .csv, and .tr0, to enable correlation.

Analyze - Measurements performed on TekScope use a common measurement library with 4/5/6 Series Tektronix oscilloscope to correlate the results. TekScope supports a range of measurements including power, jitter, and eye measurements. Plots can be customized and are interactive with zoom and cursor controls allowing custom views to share.

Document - Results and views can be saved as a session file and archived for later use or sent to a colleague or supplier for a debug session. Alternatively, results can be archived and saved in the .pdf or the .mht format using the report generator. The report can be customized to include the information of interest including: configuration details, measurement results, and plots. Plot and measurement data can also be saved to a .csv format file for archiving or data analysis in external applications.

Collaboration and setup sharing

Sharing data acquired on the oscilloscope for use with TekScope is as simple as saving 4/5/6 Series session and recalling in the application. Waveforms captured on any Tektronix oscilloscope can also be loaded using TekScope application.

Workflow improvements

Sessions from the 4/5/6 Series Oscilloscope enables improvements to your workflow. Saving a session from your oscilloscope is easily recalled in TekScope for further analysis and annotations. Using TekScope to tell your data story improves the ability to provide clarity over static images like screenshots. With a 4/5/6 Series Oscilloscope, you can also make changes to settings and restore your session back on your oscilloscope to resume where you left off without needing to reconfigure the oscilloscope from the beginning.

Analysis

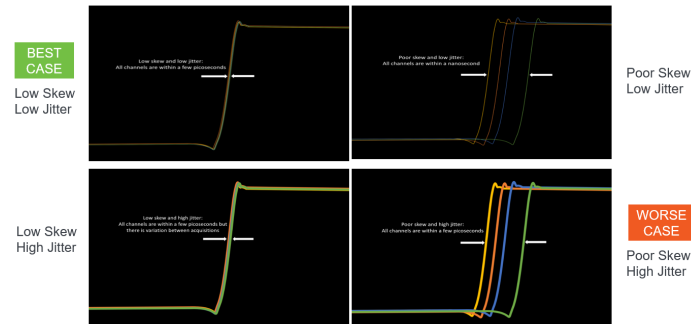
Start to add annotations, measurements, decode, and plots after capturing your data. Free up your oscilloscope for colleagues, work from the comfort of your desk or even from home. By adding analysis when you want to, your data story unfolds for more flexibility in creating presentations and sharing results than relying only on static screenshots. Post-analysis lets you go back to past captures to double check results without needing to set up the oscilloscope again. Rather than starting from scratch when you do need to re-measure, simply reload your session file on the 4/5/6 Series MSO with any changes you need in settings and rapidly get back to work.

Measurements

Most oscilloscopes measure only on the first cycles of the waveform. TekScope measurement system allows measurements on all occurrences in the record. This improvement increases your measurement insights from all other waveforms and from other oscilloscopes. To gather measurement statistics, generates statistics from a single waveform rather than requiring multiple waveforms. Our measurement algorithms are also clearly documented in our Help system, which ensures the confidence in your results.

Synchronizing channels across instruments

For the Multi-Scope analysis solution to be most accurate, it is important to set up your instruments so that all channels can be tightly synchronized and less skewed. Skew is the time difference between instrument channels from the perfect ideal alignment. Deskewing removes different forms of errors such as jitter, delta-time accuracy, and cable delay. There are multiple ways to skew channel data.



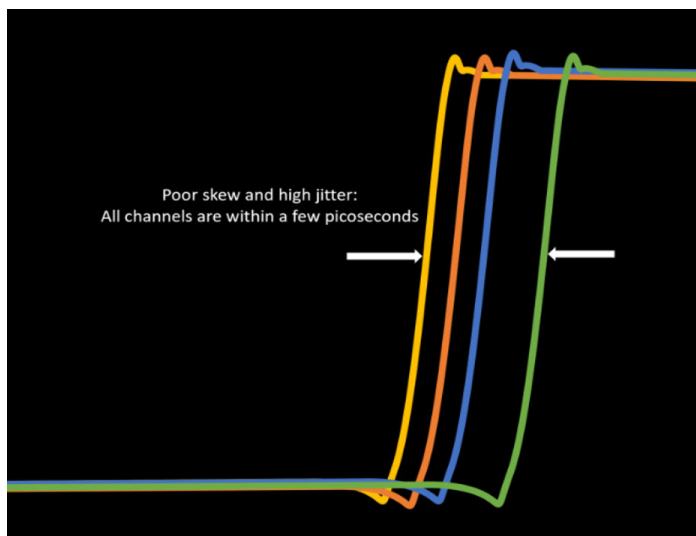
Examples for skew among channels

As time correlation among channels from different oscilloscopes is dependent on the instruments' setup, cases can range from 350 ps of skew between all channels using an easy setup to below 50 ps using a setup that involves more steps. Following are the examples of two edges:

350 ps Skew example

Easy setup

1. Use matched phase cables into the Aux input.
2. Set Aux input for trigger.



Demonstrating skew among channels using an easy setup

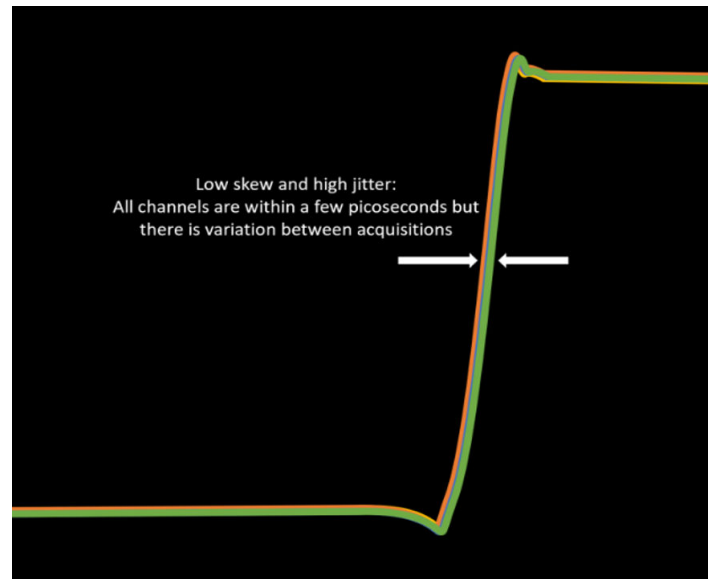


Setup diagram to quickly achieve moderate skew among channels

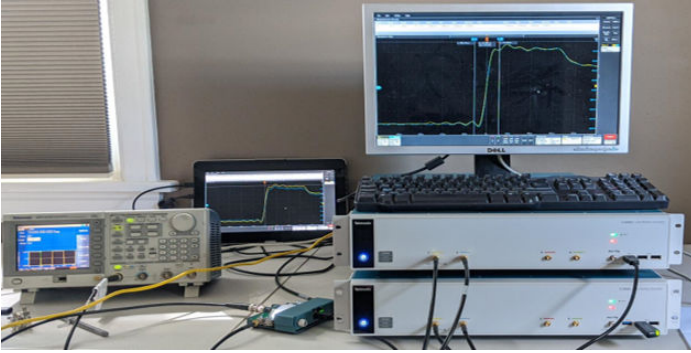
<50 ps Skew example

Best performance setup

1. Use matched sync cables.
2. Use CH<x> for trigger (not aux input).
3. Deskew each CH to trigger input.
4. Attach ref clock sync cable between instruments if capturing $>2 \mu\text{s}$ of time.
5. Measure to validate the amount of skew coming through all the channels.



Demonstrating low skew among channels from different oscilloscopes



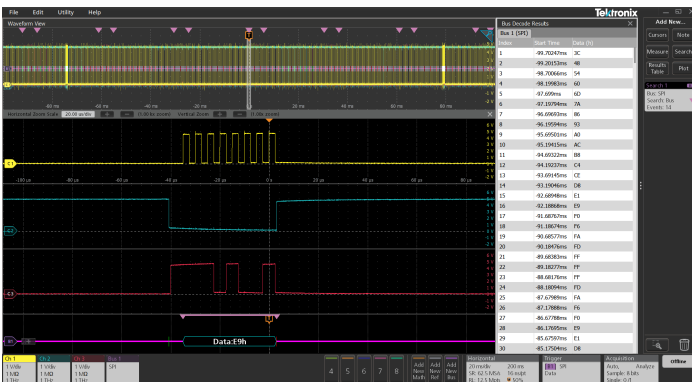
Setup example to achieve best skew performance

You can watch videos for more understanding on Multi-Scope analysis.

- For Multi-Scope analysis 24-channel example refer www.tek.com/video/tekscope-multi-scope-analysis
- To know more about how to set up Multi-Scope analysis on a TekScope, refer www.tek.com/video/how-to-set-up-multi-scope-analysis-on-tekscope-pc-software%20

Serial protocol decode and analysis

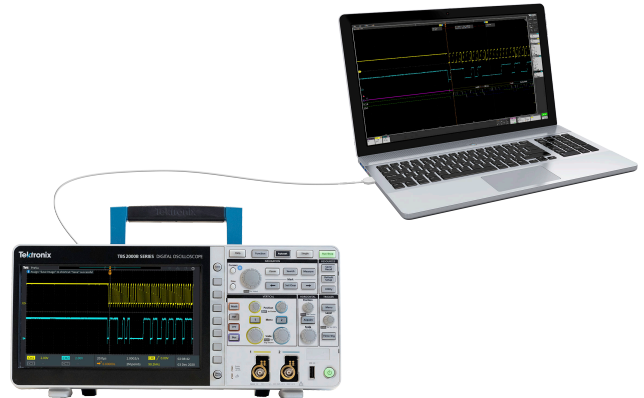
Enhance your productivity through serial protocol decode tools to rapidly decode and search on results in your waveforms. Recognizing errors or correlating control results to other behaviors rapidly speeds up your ability to identify and resolve issues in your system.



Performing bus decode analysis and generating results table

Easy access to your remote oscilloscope

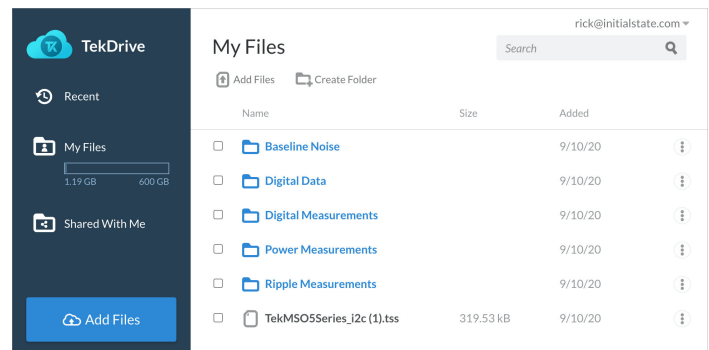
TekScope allows you to remotely connect to your Tektronix oscilloscope and retrieve data in real-time. Once the data is automatically transferred into the TekScope PC software, you can continue to run your analysis offline. All new Tektronix oscilloscope models are supported - TBS 1000 Series, TDS 1000 Series, TBS 2000 Series, TDS 2000 Series, 3 Series MDO, 4 Series MSO, 5 Series MSO, 5 Series Low-Profile MSO, 6 Series MSO, 6B Series MSO, 6 Series Low-Profile Digitizer, and DPO/MSO/DPS 70000 SX/DX/C.



Performing remote instrument control, waveform transfer, analysis and protocol decode with TEKSCOPE-STARTER license.

TekDrive collaborative workspace

Using TekDrive, you can upload, store, organize, search, download, and share any file type from any connected device. TekDrive is natively integrated into the TekScope PC Software for seamless sharing and recalling of files - no USB stick required. TekDrive is purpose built for integration, automation, and security. Visit www.tek.com/software/tekdrive to learn more.



TekDrive collaborative workspace - save files directly from your TekScope PC Software and share across your team

Customizable display

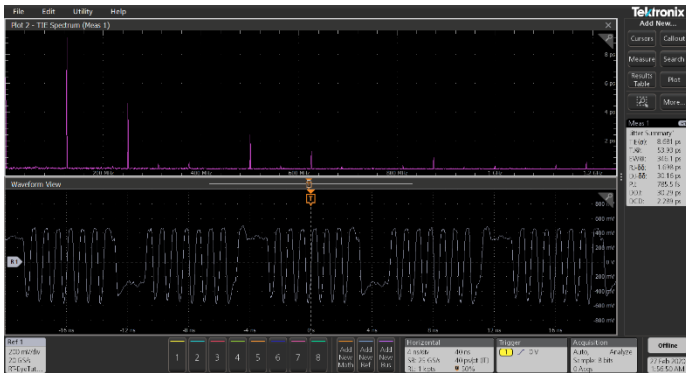
Waveform analysis is no longer constrained to a single oscilloscope display. TekScope allows you to control the analysis environment.

Two options are available for waveform viewing, either overlay mode or stacked mode. You can simply toggle between the two modes based on the required analysis. For example, when looking at edge crossings between two data signals, overlay mode may be preferred. As the number of waveforms grows, stacked mode is typically preferred.

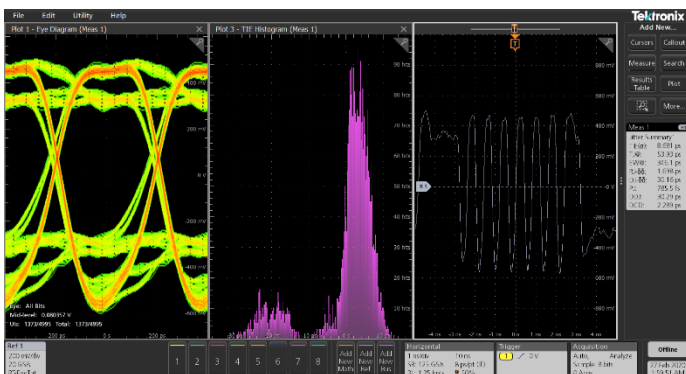
Other scenarios require the evaluation of waveforms and plot data, including eye diagrams, spectrums, bathtub plots, or histograms. Plots can be viewed in the same window as the waveform or in cases where additional screen real estate is needed a group of plots can be created

and displayed on a second monitor. Within the group of plots, the user has the flexibility to customize the layout by simply dragging and dropping the plots within the display. For example, as shown below when viewing the jitter spectrum or FFT of a waveform, a stacked view is preferred.

You can also have a side-by-side view.



Stacked view of time domain waveform and jitter spectrum



Side-by-side view of eye diagram, TIE histogram and waveform shown in individual views

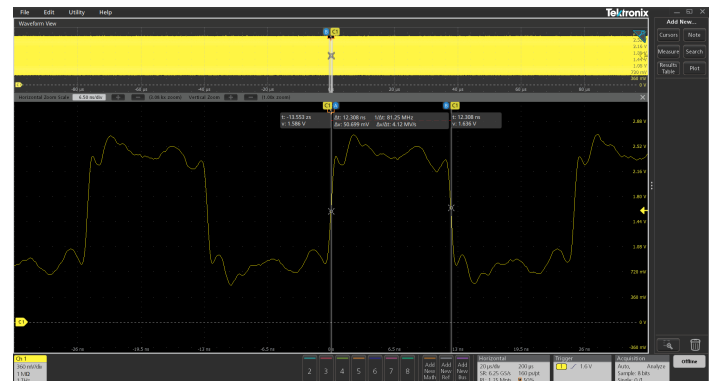
When a single display is not sufficient to view the necessary plots, they can quickly be grouped and moved to a second monitor. Once grouped, the user has the flexibility to customize the layout and the ability to view the plots in either tabbed or grid mode. Tab mode provides a maximized view of an individual plot while allowing you to click on the other tabs to toggle between the plots. Grid mode provides a single view of all the plots in the group.

Waveform zoom and cursors

Interactive plots with zoom and cursors – Plots provide a deep level understanding of system behavior. It is often desired to zoom in on plot data, some common reasons to zoom on plots include placing cursors to take measurements at precise locations. Zooming enables precise viewing of the portion of the plot of interest. While zoomed in the overview window, it always provides context of the zoomed area in relation to the entire plot.

Cursor support for plots and waveforms can provide additional measurement details. For example, the amplitude and period of a

waveform can be determined using cursors, or measurement results variation can be determined by evaluating the trend plot.



Cursor measurements with prominent readouts provide quick results for both plot and waveform data

Key capabilities

TekScope is available with three license tiers to meet your needs. This table summarizes the core capabilities TekScope offers.

Starter License
View and annotate unlimited waveforms and plots
Zoom on waveforms and plots
View in stacked or overlay modes
Cursors: Waveform, V Bars, H Bars, and V&H Bars
34 Amplitude and timing measurements with statistics
Math: Basic waveform arithmetic, FFT, and Equation editor
Plots: Time Trend, Histogram, Spectrum, and XY/XYZ
Search: Quickly find events in your data based on specified criteria
Import from and Export to a wide range of file formats
Decode clocked and Unclocked parallel bus
FastFrame segmented memory
Generate reports
Edit your session file for recall on your oscilloscope - resume where you left off
Multiple-language support
Serial decode, search and event table analysis on I2C, SPI, and RS-232/422/485/UART buses
Remote Access to a single oscilloscope
Programmable Interface for Automation
Spectrum View Basic

Pro License
Pro Serial Decode License
CAN, CAN FD, LIN, FlexRay, USB2.0, eUSB2.0, Ethernet, eSPI, I3C, NRZ, SPMI, MDIO, SVID, SDLC, 8b/10b, Audio, MIPI C-PHY, MIPI D-PHY, Spacewire, Manchester, 1-Wire
Pro Power License
• Advanced Power Analysis • Digital Power Management Analysis • Magnetic Analysis • Frequency Response Analysis • Inverter & Motor Drive Analysis • IMDA DQ0 • Serial Decode: SPMI, SVID
Pro Automotive License
• Jitter Analysis • Mask/Limit Testing • Inverter & Motor Drive Analysis • IMDA DQ0 • Serial Decode: CAN, CAN FD, LIN, FlexRay, 100BASE-T1, SENT, PSIS, and I3C
Pro Aerospace License
• Jitter Analysis • Mask/Limit Testing • Serial Decode: Mil-Std-1553, ARINC429, Spacewire, NRZ, and Manchester
Ultimate License
• Multi-Scope Analysis Solution – Remote Access and Simultaneous Synchronization of Multiple oscilloscopes on one screen Spectrum View RF vs. Time waveforms, Extended Spectrum View capture bandwidth • User-Defined Filter (UDFT)

Add analysis packages for the capabilities you need. Powerful additions are designed to save your time in protocol decode, power measurements, jitter analysis, and ensure that you have the tools you need at your fingertips.

Multi-Scope analysis provides you with the ability to remotely connect to four oscilloscopes and acquire 32-channel data directly from them without the need to manually load/recall waveforms.

Serial protocol enables faster time to answer by highlighting packet information and errors that can be correlated with events in your acquisitions. Decoded serial data may also be searched, enabling rapid identification of events in longer captures.

Power analysis enables deeper insight into the performance of your system with measurements and plots created with a power designer in mind.

TekScope with jitter analysis uses the same DPOJET measurement framework available on Tektronix oscilloscopes. Comprehensive jitter and eye-diagram analysis, along with decomposition algorithms, simplify the discovery of signal integrity and jitter problems in today's high-speed serial, digital, and communication system designs.

Perform spectrum view analysis from your local machine while having the option to work anywhere and apply these analysis capabilities on any historical data files.

Specifications

General

Specification type	Subtypes		Description
TekScope PC analysis software - Version	-		v 1.34.8.303
Time measurements	22		Period, Frequency, Unit Interval, Data Rate, Positive Pulse Width, Negative Pulse Width, Skew, Delay, Rise Time, Fall Time, Phase, Rising Slew Rate, Falling Slew Rate, Burst Width, Positive Duty Cycle, Negative Duty Cycle, Time Outside Level, Setup Time, Hold Time, Duration N-Periods, High Time, and Low Time
Amplitude measurements	12		Amplitude, Maximum, Minimum, Peak-to-Peak, Positive Overshoot, Negative Overshoot, Mean, RMS, AC RMS, Top, Base, and Area
Plots	5		Histogram, Spectrum ¹ , Eye Diagram ¹ , Bathtub ¹ , Time Trend, and XY/XYZ
Standard math functions	9		+, -, *, /, Integral, Derivative, Arbfilt, FFT Magnitude and Phase
Advanced math functions	33		^, <, <=, >, >=, ==, !=, Inv, (,), Time Point Gating (GATE {y1,y2} expression), log, ln, Exp, Sqrt, Floor, Ceil, Fabs, Sin, Cos, Tan, Asin, Acos, Atan, Sinh, Cosh, Tanh, Intg, Diff, Min, Max, Avg, and - (negate)
Multi-Scope analysis	-	General specifications	- Maximum number of oscilloscopes: 4 - Maximum number of channels: 32
	-	Signal types	- Analog data - supported - Digital data - not supported - Spectrum data - supported
	-	Remote oscilloscope connection interfaces	- LAN - Using ethernet connection - USB - Using automatic connection discovery
	-	Oscilloscope models	Please check ' Remote Oscilloscope Access ' for details.
	-	Data transfer modes	- Refresh waveforms - simple data transfer without triggering remote oscilloscopes. - Acquire new waveform data upon triggering remote oscilloscopes; TekScope controls acquisition settings across all connected oscilloscopes. - Acquire new waveform data upon triggering remote oscilloscopes; TekScope does not control acquisition settings of connected oscilloscopes - using the acquisition settings configured locally in the oscilloscopes.
Power electronics measurements and analysis	4	Input analysis	Power Quality, Harmonics, Inrush Current, and Input Capacitance
	6	Amplitude analysis	Cycle Amplitude, Cycle Top, Cycle Base, Cycle Peak-to-Peak, Cycle Maximum, and Cycle Minimum

Table continued...

¹ only available in jitter analysis

Specification type	Subtypes		Description
	5	Timing analysis	Period, Frequency, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, and Negative Pulse Width
	5	Switching analysis	Switching Loss, dv/dt, di/dt, SOA, and RDS(on)
	4	Magnetic analysis	Inductance, Magnetic Property, Magnetic Loss, and Current vs. Integral of Voltage Plot
	5	Output analysis	Line Ripple, Switching Ripple, Efficiency, Turn On Time, and Turn Off Time
	5	Inverter motor drive analysis	Power Quality, Harmonics, Ripple, Efficiency, DQ0
Power integrity measurements and analysis	1	Ripple analysis	Ripple
	4	Transient analysis	Overshoot, Undershoot, Turn on Overshoot, and DC Rail Voltage
	2	Power sequence analysis	Turn On Time and Turn Off Time
	8	Jitter analysis	TIE, PJ, RJ, DJ, Eye Height, Eye Width, Eye High, and Eye Low
	1	Protocol decode and search analysis	SPMI Protocol
Jitter measurements and analysis	18	Jitter measurements	Jitter Summary, TIE, Phase Noise, TJ@BER, RJ- $\delta\delta$, DJ- $\delta\delta$, PJ, RJ, DJ, DDJ, DCD, SRJ, J2, J9, NPJ, F/2, F/4, and F/8
	7	Eye measurements	Eye Height, Eye Width, Eye High, Eye Height@BER, Eye Width@BER, Eye Low, and Q-Factor
	7	Amplitude measurements	Bit High, Bit Low, Bit Amplitude, DC Common Mode, AC Common Mode (Pk-Pk), Differential Crossover, and T/nT Ratio
	2	Time measurements	SSC Freq Deviation, SSC Modulation Rate
Low speed protocol decode	29	Protocol decode and search analysis	CAN, CAN FD, LIN, FlexRay, USB2.0, eUSB2.0, Ethernet, eSPI, I3C, NRZ, SPMI, MDIO, SVID, SDLC, 8b/10b, Audio, MIPI C-PHY, MIPI D-PHY, Spacewire, Manchester, 1-Wire, CXPI, SENT, 100BASE-T1, PSI5, Mil-Std-1553, and ARINC429
Remote Oscilloscope Access	-	Signal types	- Analog data - supported - Digital data - not supported - Spectrum data - supported
	-	Remote oscilloscope connection interfaces	- LAN - Using ethernet connection - USB - Using automatic connection discovery
	-	Oscilloscope models	TBS 1000 Series, TDS 1000 Series, TBS 2000 Series, TDS 2000 Series, 3 Series MDO, 4 Series MSO, 5 Series MSO, 5 Series Low-Profile MSO, 6 Series MSO, 6B Series MSO, 6 Series Low-Profile Digitizer, and DPO/MSO/DPS 70000 SX/DX/C
	-	Oscilloscope Operating System	- Embedded OS - Windows 10 OS

Table continued...

Specification type	Subtypes		Description
	-	Data transfer modes	- Refresh waveforms - simple data transfer without triggering remote oscilloscope. - Acquire new waveform data upon triggering remote oscilloscope; TekScope controls acquisition settings of connected oscilloscope. - Acquire new waveform data upon triggering remote oscilloscope; TekScope does not control acquisition settings of connected oscilloscope - using the acquisition settings configured locally in the oscilloscope.
Supported file types	7	Import	.tss (Tektronix 4/5/6 Series session) .wfm, .isf (Tektronix) .bin (Keysight) .trc (Lecroy) .tr0 (Spice) .csv (general purpose)
	10	Export	.jpg, .bmp, and .png (Screen capture - Save to PC drive, not to oscilloscope memory) .wfm (Tektronix Waveform Data) .csv, .mat (Waveform Data to CSV or Matlab format) .set (Setup Information) .tss (Tektronix 4/5/6 Series session) .pdf, .mht (Reports)
Programmable interface	-		All licenses on TekScope include programmable interface for automated testing. The programmable interface will run on your PC and communicate with the TekScope software. Find out more in the Programmer manual: www.tek.com/manual/oscilloscope/4-5-6-series-mso-5-series-mso-mixed-signal-oscilloscope

Waveform controls

Zoom Horizontal and/or Vertical

Cursors Waveform or Screen

Plot controls

Zoom Horizontal and/or Vertical

Cursors Waveform or Screen

Number of views

Waveform views One with the ability to configure in stacked, overlay, or mixed modes. Up to 32 waveforms are viewed simultaneously

Available outputs

Report	Comprehensive report with measurement results, plots, and system configuration details are available in .pdf or .mht formats
Composite setup	Single file for saving waveforms, measurements, and configuration details
Plot and measurement data	Export plot and measurement data in .csv formats

Minimum system configuration

System requirements	64-bit Windows 10 8 GB or higher of RAM recommended Intel® Core™ i5 or AMD Athlon® X4 processor (2GHz or faster) 5 GB of available hard disk space, 10 GB recommended (exact space is dependent on the number of waveforms and their size) 1920x1080 or greater at 100% scaling recommended OpenGL® 2.0, 32-bit color, and 1 GB of VRAM Internet Browser - Chrome or Firefox (for software and license download)² For the best experience when using advanced features such as Serial Bus Protocol Decode, Power Measurements, Jitter Analysis, Multi-Scope, or when analyzing large numbers of waveforms and long records, we recommend more capable PC systems with additional RAM, disk space, and processor capability. It's highly recommended to ensure you have the latest updates from Microsoft to your Windows PC as well as Visual Studio standard redistributable library. For more details, refer to this Microsoft page support.microsoft.com/en-us/topic/the-latest-supported-visual-c-downloads-2647da03-1eea-4433-9aff-95f26a218cc0.
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² Internet connection is needed to download the software and any license file. Once completed, Internet connection will no longer be needed. The software does not require online Internet connectivity in order to use it for its regular operation.

Ordering information

Register and download TekScope PC software from www.tek.com/software/tekscope-pc-analysis-software. Software is enabled by a license file that can be downloaded from the TekCloud website using a trial or a paid license.

Base license

Tier	License Option	Description	License Term
Starter	TEKSCOPE-STARTER	License; Starter License for TekScope PC Software; Perpetual License for 2 Individual Seats; Node Locked	Perpetual
	TEKSCOPE-STARTER-1Y	License; Starter License for TekScope PC Software; 1-Year License for 2 Individual Seats; Node Locked	1-Year Time-Based
Professional Serial Decode	TEKSCOPE-PRO-SR	License; Pro Serial Decode License for TekScope PC Software; Perpetual License for 2 Individual Seats; Node Locked	Perpetual
	TEKSCOPE-PRO-SR-1Y	License; Pro Serial Decode License for TekScope PC Software; 1-Year License for 2 Individual Seats; Node Locked	1-Year Time-Based
Professional Power	TEKSCOPE-PRO-PWR	License; Pro Power License for TekScope PC Software; Perpetual License for 2 Individual Seats; Node Locked	Perpetual
	TEKSCOPE-PRO-PWR-1Y	License; Pro Power License for TekScope PC Software; 1-Year License for 2 Individual Seats; Node Locked	1-Year Time-Based
Professional Automotive	TEKSCOPE-PRO-AUTO	License; Pro Automotive License for TekScope PC Software; Perpetual License for 2 Individual Seats; Node Locked	Perpetual
	TEKSCOPE-PRO-AUTO-1Y	License; Pro Automotive License for TekScope PC Software; 1-Year License for 2 Individual Seats; Node Locked	1-Year Time-Based
Professional Aerospace	TEKSCOPE-PRO-MIL	License; Pro Mil/Gov License for TekScope PC Software; Perpetual License for 2 Individual Seats; Node Locked	Perpetual
	TEKSCOPE-PRO-MIL-1Y	License; Pro Mil/Gov License for TekScope PC Software; 1-Year License for 2 Individual Seats; Node Locked	1-Year Time-Based

Table continued...

Tier	License Option	Description	License Term
Ultimate	TEKSCOPE-ULTIMATE	License; Ultimate License for TekScope PC Software; Perpetual License for 2 Individual Seats; Node Locked	Perpetual
	TEKSCOPE-ULTIMATE-1Y	License; Ultimate License for TekScope PC Software; 1-Year License for 2 Individual Seats; Node Locked	1-Year Time-Based

Legacy Licenses

Product	Description	License Term	License Option
Multi-Scope Analysis	License; Multi-Scope Analysis License, Viewing and Analysis of Real-time Channels from Multiple Remote Scopes Simultaneously; 2 Individual Seats, Node Locked.	1-Year Time-Based	TEKSCOPE-MULTI-1YR
		Perpetual	TEKSCOPE-MULTI-PER
Low Speed Protocol Decode	License; Low Speed Protocol Decode - I2C, I3C, SPI, RS-232, SPMI, I2S, LJ, RJ, TDM, CAN, CAN-FD, LIN, FlexRay, SENT, 100BASE-T1 Automotive Ethernet, MIL-STD-1553, ARINC-429, SpaceWire, USB 2.0, eUSB2, PSI5, SVID, 10BASE-T / 100BASE-TX Ethernet, MDIO, NRZ, 8b/10b, MIPI D-PHY, Manchester, SDLC, 1-Wire, MIPI C-PHY CSI/DSI; 2 Individual Seats, Node Locked	1-Year Time-Based	TEKSCOPE-DECODE-1YR
		Perpetual	TEKSCOPE-DECODE-PER
Jitter Measurements and Analysis	License; Advanced Jitter and Eye Analysis; 2 Individual Seats, Node Locked	1-Year Time-Based	TEKSCOPE-DJA-1YR
		Perpetual	TEKSCOPE-DJA-PER
Power Electronics Analysis	License; Power Electronics: Advanced Power Analysis, Magnetics Analysis, Inverter Motor Drive Analysis; 2 Individual Seats, Node Locked	1-Year Time-Based	TEKSCOPE-PWR-ELC-1YR
		Perpetual	TEKSCOPE-PWR-ELC-PER
Power Integrity Analysis	License; Power Integrity: Digital Power Management and Analysis, Power Management Serial Decode and Analysis (SPMI); 2 Individual Seats, Node Locked	1-Year Time-Based	TEKSCOPE-PWR-INT-1YR
		Perpetual	TEKSCOPE-PWR-INT-PER
SpectrumView Analysis	License; SpectrumView Application; 2 Individual Seats, Node Locked	1-Year Time-Based	TEKSCOPE-SV-1YR
		Perpetual	TEKSCOPE-SV-PER
Remote Analysis for Bench Oscilloscopes	License; Real-Time Remote Data Acquisition from a Single TBS/TDS/TPS Oscilloscope, Essential Protocol Decoders - I2C, SPI, UART, CAN, CAN-FD, LIN; 2 Individual Seats, Node Locked	1-Year Time-Based	TEKSCOPE-ENTRY-1YR
		Perpetual	TEKSCOPE-ENTRY-PER

License Comparison

	Starter	Professional	Ultimate
Base Application: Waveforms viewing and analysis, standard measurements, basic and advanced math options, basic and advanced plot options, wide range of file formats, FastFrame of segmented memory, multi-language support	✓	✓	✓
Serial decode, search and event table analysis on I2C, SPI, RS-232/422/485/UART buses.	✓	✓	✓
Remote access to a single oscilloscope Supports most Tektronix oscilloscope models	✓	✓	✓
Programable Interface for Automation	✓	✓	✓
Multi-Scope Analysis Solution: Remote access and simultaneous synchronization of channels from multiple oscilloscopes on one screen			✓
SpectrumView RF vs. Time analysis: Extended spectrumView capture bandwidth			✓
User-Defined Filters			✓
Pro licenses	None	One	All

Pro Licenses

Serial Decode :	CAN, CAN FD, LIN, FlexRay, USB2.0, eUSB2.0, Ethernet, eSPI, I3C, NRZ, SPMI, MDIO, SVID, SDLC, 8b/10b, Audio, MIPI C-PHY, MIPI D, PHY, Spacewire, Manchester, 1-Wire, and CXPI
Power :	Advanced Power Analysis, Digital Power, Management Analysis, Magnetic Analysis, Frequency Response Analysis, Inverter & Motor Drive Analysis, Inverter & Motor Drive Analysis, IMDA DQ0, and Serial Decode: <i>SPMI, SVD</i>
Aerospace & Defence:	Jitter Analysis, Mask/Limit Testing, and Serial Decode: <i>Mil-Std-1553, ARINC429, Spacewire, NRZ, Manchester</i>
Automotive:	Jitter Analysis, Mask/Limit Testing, Inverter & Motor Drive Analysis, IMDA DQ0, and Serial Decode: <i>CAN, CAN FD, LIN, FlexRay, 100Base-T1, SENT, PSI5, I3C</i>

Installing prerequisite software

Pay special attention to install the prerequisite software needed in order to run properly any licenses that you have subscribed in TekScope. The prerequisite software can be downloaded from: scope.tekcloud.com/#/help/prerequisites (you need to sign in first to your account to access this page).

Required for Remote Oscilloscope Access

1. Install TekVISA on the PC where TekScope software is installed.



Note: Ensure you have the right firewall settings configuration. You can configure the firewall settings during the TekScope installation using the installer menu, or check our User Manual for more information on how to update your firewall settings.

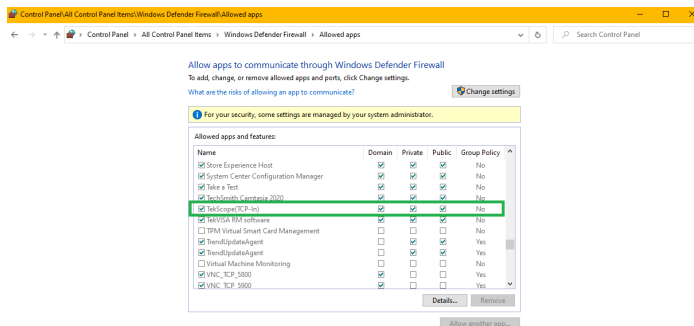
2. Install Myrtile on the oscilloscope, if it runs a Windows operating system.

Required for Programmable Interface for Automation

1. Install TekVISA on the PC where TekScope software is installed.

Recommendation for overcoming connection issue while trying to remotely access your oscilloscope

The company's IT firewall settings sometimes impact the ability to remotely connect to your oscilloscopes. To overcome this challenge, make sure Domain, Private, and Public checkboxes are all checked for the TekScope application in your Windows firewall list. Look at the below image for an example.



License activation

All license options are available for a 14-day trial. At the end of the 14-day trial, you may continue using the licenses after purchasing them.

Customers can purchase advanced licenses in one of two ways:

- Placing a Purchase Order (PO) with any Tektronix Sales channels. Upon placing a PO, you will receive a software activation key. The activation key can be entered during the sign-up process or after your account is set up.

HAVE A PREPAID CODE?

PREPAID CODE

(case-sensitive)

APPLY 

- Using a credit card directly on the TekCloud website [Available only to U.S. Customers].

Payment required ⓘ [Add Card](#)

[← Add Payment Method](#)

Credit Card *

 Card number

MM / YY CVC

Cancel

Add Card

License types and software updates

The following definitions apply to the TekScope license types:

Maintenance for Software: Maintenance for software offers continuous delivery of software updates when purchased with perpetual licenses or time-based licenses. Perpetual licenses include maintenance for the first year but will require a new maintenance license to continue to receive updates after the first year. If you have a time-based license, maintenance is active during the period of the time-based license only.

Perpetual License: The software can be used indefinitely; license does not expire but updates/support only available for the first 12-months. Support can be extended by purchasing a maintenance license. If a perpetual license goes out of support, all features will be frozen to the last released version before the support expired. The software will continue to work, but you cannot get any updates newer than the support expiration date.

Maintenance License: Apply to perpetual licenses only. Maintenance license is an extension license that extends the period of support of an original perpetual license for 12 months.

Time-Based License: The software can be used through the term of the license only. Software updates and support through the term of the license are included. When the Time-Based license expires, all features will no longer work, but a new Time-Based license may be purchased.

Every TekScope license is a Node-Locked License and is used on a PC. Upon purchasing a TekScope license, you have the option to use it for two software installations on individual PCs. However, bear in mind that these are not floating or enterprise licenses that can be moved from one PC to another. Customers can install the license on two different PCs or on the same PC while using two different users to log into this PC. Once installed, these two software installations can be used simultaneously.



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

ASEAN / Australasia (65) 6356 3900
Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (120) 441 046
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea +822 6917 5084, 822 6917 5080
Spain 00800 2255 4835*
Taiwan 886 (2) 2656 6688

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
United Kingdom & Ireland 00800 2255 4835*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
Italy 00800 2255 4835*
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 80 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tek.com.

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