



news & updates January 2026 | Issue 1

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Pico Technology's Amazing PicoScope 7.2 Software Upgrade!

ROCK SOLID



PicoScope Software

CEO's Corner

PicoScope Software 7.2 has been released, which introduces powerful new features and enhancements designed to improve waveform capture, analysis and measurement confidence, making the control of



PicoScope instruments are faster, clearer, and more efficient for engineers and technicians worldwide. The new features in PicoScope 7.2 incorporate suggestions from the PicoScope user community, plus innovative thinking from Pico Technology's engineering team, to address the practical challenges faced in electronic test and measurement.

There are links at the end of the newsletter for the PicoScope videos discuss the updates in further detail.

Alan Lowne
CEO, Saelig Company Inc.

What's New?

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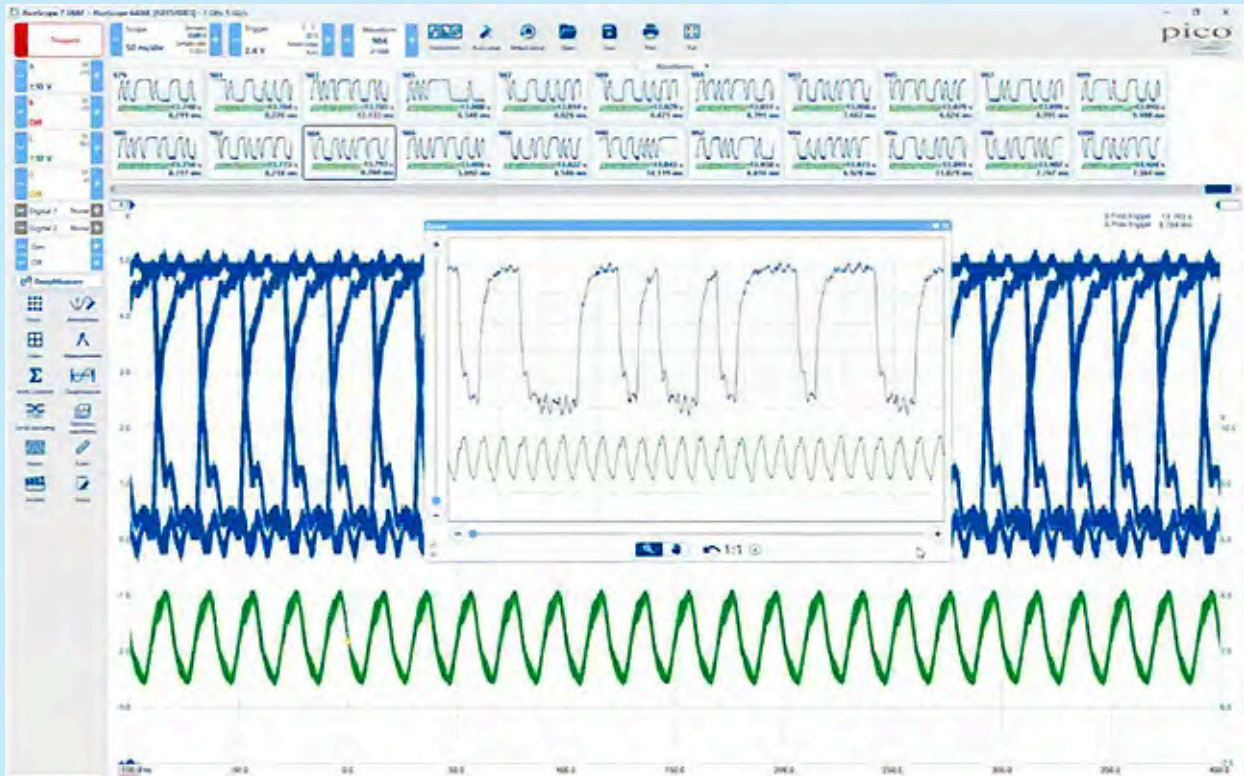
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Pico Technology's Amazing PicoScope 7.2 Software is a Major Upgrade!

(from <https://www.picotech.com/library/news/product-news/pico-technology-announces-major-upgrade-to-picoscope-7-software-with-release-of-version-7-2>)







Key Features in PicoScope 7.2

“We’ve listened closely to our community and built tools like Waveform Overlays and Advanced Serial Filtering to turn tedious tasks into instant insights,” said Trevor Smith, Product Manager at Pico Technology.

PicoScope 7.2 introduces *Waveform Overlays*, a powerful visualization tool that displays multiple waveform captures stacked on top of each other in a single view. This feature effectively creates a visual “envelope” of a signal’s normal behavior, enabling users to drill down to view details of intermittent glitches, jitter and anomalies that might be missed in traditional single-shot views. This is analogous to an advanced digital persistence display, providing unparalleled clarity for signal integrity analysis.

The new *Serial decoding Advanced Filters* tool dramatically reduces the time spent sifting through long serial data captures. This feature allows users to easily set up filters to identify specific packets, data types or indexed date ranges of interest based on criteria such as data length or specific content. Crucially, this advanced filtering works seamlessly across all *40 serial protocols* supported by PicoScope 7

							
SMBus	SBS Data	SPI - SDIO	SPI - MISO/ MOSI	PS/2	Parallel bus	1-Wire	I2C
							
I2S	I3C BASIC	PMBus	Quadrature	Wind Sensor	MIL-STD-1553	DALI	DMX512
							
BroadR-Reach	Ethernet 10BASE-T	Fast Ethernet 100BASE-TX	DCC	ARINC 429	CAN	CAN FD	CAN XL
							
FlexRay	LIN	SENT Fast	SENT Slow	CAN J1939	SENT SPC	PSIS (Sensor)	USB (1.0/1.1)
							
MODBUS ASCII	MODBUS RTU	Manchester	RS232/UART	Extended UART	NMEA-0183	Differential Manchester	10BASE-T1S

40

serial
protocol
decoders

These serial protocol decoders are built-in and included as standard at **no extra cost.**

To ensure clarity and complete trust in measurement results, PicoScope 7.2 includes *Measurement Indicators*. These clear visual markers are placed directly on the waveform, highlighting the precise “decision points” PicoScope uses for its automatic measurement calculations (e.g., rise time, frequency). This eliminates guesswork, allowing users to see exactly where values are derived.

The software now features displayable and savable *Capture Timestamps* (the date and time the waveform buffer was received by the PC, to the resolution of the host PC clock, typically some tens of milliseconds). Also, for PicoScope 3000E and 6000E Series, precise Trigger Timestamps are available, allowing for high-resolution delay measurement between events relative to the first or previous waveform, with resolution down to 200ps, depending on instrument settings. Timestamp times are recorded by default and can now be exported to a .csv file for detailed reporting and integration with other analysis tools.

PicoScope 7.2 includes a host of smaller, but significant, improvements to streamline the user experience:

- **Smarter Actions:** The Pass/Fail limit system has been enhanced, allowing users to set up Actions (e.g., saving a file) to trigger based on limits for specific measurements.
- **Channel Deskew:** A new feature has been added to easily compensate for timing differences caused by probes with different cable lengths, ensuring perfectly aligned multi-channel measurements.
- **Precise control:** Users can now make coarse and fine adjustments (by pressing the shift key while scrolling the mouse wheel) when entering values in settings control boxes. Available now in PicoScope 7.2 for Windows, and coming soon for Mac and Linux users.
- **Fresh start:** A convenient Default setup button has been added to the top toolbar for quickly restoring factory settings.

PicoScope 7.2 is available now as a *free update* for all existing and new users of PicoScope instruments on Windows, macOS, and Linux operating systems.

Download PicoScope 7.2: <https://www.picotech.com/downloads>

PicoScope Models

PicoScope 2000 Series - Entry-level price, high-end features

The PicoScope 2000 Series offers 2/4 channels with up to 100MHz bandwidth, sampling rates up to 1GSa/s and deep memory up to 128MS; this compact oscilloscope series is incredibly capable, yet fits on the busiest of desks with no problem. 8-bit resolution can be enhanced to add another 4-bits. All models also include a built-in function and arbitrary waveform generator. Mixed-signal models include a 16-channel digital input for powerful debugging. The 2000A models offer unbeatable value, while the 2000B models provide higher bandwidth and deeper memory for advanced analysis. All PicoScope 2000 Series oscilloscopes are powered over USB to maximize portability and convenience.



PicoScope 3000 Series Power, portability and performance

PicoScope 3000 Series USB-powered PC oscilloscopes are small, light, and portable while offering a range of high-performance specifications. 2 or 4 analog channels and a built-in function / arbitrary waveform generator. MSO models add 16 digital channels. Up to 200MHz analog bandwidth, 1GSa/s real-time sampling, and 512MSa buffer memory, these scopes are USB 3.0 connected and powered. 8-bit resolution can be enhanced to add another 4-bits. Decode over 30 serial protocols and perform serial decoding and mask testing. Spectrum view plots amplitude against frequency - ideal for finding noise, crosstalk or distortion in signals.



PicoScope 3000E Series High bandwidth, high sampling rate, deep memory

The PicoScope 3000E Series offers several firsts for USB powered scopes: first to 500 MHz with 8/10-bit resolution, first with 5GSa/s sampling, first with 2GSa of buffer memory. These USB-powered PC oscilloscopes offer 4 analog channels with 10-bit resolution plus 16 digital logic analyzer channels on MSO models. Easy-to-use zoom functions plus mask tests let you scan through 1000s of waveforms; DeepMeasure™ helps make millions of measurements on a waveform to quickly identify areas to investigate.



PicoScope 4000 Series High Resolution to 8 channels

High-resolution oscilloscopes with 12 to 16-bit resolution, 2/4/8 channels. Low noise and distortion provide unmatched signal fidelity. All are USB-powered and some include an AWG. Included are models with differential inputs, IEPE interfaces, and 100V CAT III capabilities. Bandwidths to 20MHz.



PicoScope 5000 Series Flexible Resolution Oscilloscopes.

Breakthrough ADC technology allows hardware resolutions from 8 to 16 bits. Combines the high sampling rate of the PicoScope 3000 Series with the high resolution of the PicoScope 4000 Series. Flexible resolution allows you to reconfigure the scope hardware to increase either the sampling rate or the resolution; e.g. a fast (1GSa/s) 8-bit oscilloscope for digital signals, or a high-resolution 16-bit oscilloscope for audio work and other analog applications. 2/pr 4 channels with bandwidths to 200MHz.



PicoScope 6000E Series Deep memory plus MSO = exceptional mixed-signal performance

The PicoScope 6000E Series oscilloscopes are as powerful as any traditional scope and more: up to 3GHz bandwidth on 4/8 channels with flexible 12-bit resolution (up to 16-bit with resolution enhancement), sampling at 5GSa/s. plus up to 4Gsa memory. Available 16 digital channels and a 50MHz arbitrary waveform generator, combined with 40 serial decoders included as standard, creates an oscilloscope that excels at debugging and monitoring digital systems. Perfect for simultaneously decoding multiple serial or parallel protocols.



PicoScope 9000 Series Sequential Sampling for up to 33GHz signals

PicoScope 9000 oscilloscopes use sequential sampling technology to measure fast repetitive signals without the need for expensive real-time sampling hardware. With up to 30 GHz bandwidth, the PicoScope 9300 12-bit sampling oscilloscopes address digital and telecommunications applications of 10Gb/s and higher, microwave applications up to 25GHz and timing applications with a resolution down to 64fs. Optional 11.3Gb/s clock recovery, optical to electrical converter or differential, deskewable time domain reflectometry sources (60ps/7V) complete a powerful, small-footprint and cost-effective measurement package. The PicoScope 9400 Series SXRTOs (sampler-extended real-time oscilloscope) are a new class of oscilloscopes that combine the benefits of real-time sampling, random equivalent-time sampling and high analog bandwidth to 16GHz. The 9400A Series, unlike a traditional sampling oscilloscope, can trigger directly off the input signal. For measurements up to 6GHz, there's no need for a complicated set-up with an external trigger source; just plug in your signal and start measuring. Sampling rates up to 5TSa/s and analog bandwidth up to 33GHz without the complications or cost of a traditional sampling oscilloscope. PicoScope 9000 scopes quickly measure more than 40 pulse parameters.



Click the images below to go to the Pico videos discussing the PicoScope 7 Update in more detail



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