

**EMBARGOED UNTIL 11 am BST, 28 MAY 2026**

**Pico Technology launches ultra-low noise PicoScope 5000E Series 16-bit oscilloscopes**

*New 4-channel and MSO USB-C<sup>®</sup> oscilloscopes provide precision where you need it and speed when it matters.*



Pico Technology, a market leader in PC-based oscilloscopes, announces the new PicoScope 5000E Series oscilloscopes, a new family of compact, USB-C oscilloscopes for engineers. Addressing the need to measure sensitive, low-amplitude signals and move quickly between analog, digital and mixed-signal debugging.

The PicoScope 5000E Series delivers true 16-bit resolution with bandwidths up to 200 MHz, sample rates of 2.5 GS/s and 1 GS capture memory. The PicoScope 5000E Plus Series models add a switchable 8-bit high-speed mode with bandwidths up to 500 MHz, sampling rate of 5 GS/s and 2 GS of deep memory, giving engineers the advantage of a high-resolution precision oscilloscope and a faster 500 MHz debug oscilloscope in one portable instrument.

**Low-noise, high-dynamic range measurements**

Today's engineers are measuring smaller signals in noisier systems: millivolt-level ripple on DC rails, low-level sensor outputs, precision audio, analog front ends, medical electronics and mixed-signal designs where a rare glitch can matter as much as the main waveform.

The PicoScope 5000E Series 16-bit resolution offers an industry-leading noise floor below 22  $\mu\text{V}$  root mean square (RMS) and better than -73 dB total harmonic distortion (THD). This high-dynamic range helps engineers maximize the usable resolution, finding small amplitude components, ripple, distortion and anomalies that lower-resolution or noisier instruments can hide.

**Specifications and features**



**Pico Technology Limited**  
James House  
Colmworth Business Park  
St Neots, Cambridgeshire  
PE19 8YP  
United Kingdom

[www.picotech.com](http://www.picotech.com)  
[www.picoauto.com](http://www.picoauto.com)  
☎ +44 (0) 1480 396 395

Registered in England & Wales No: 2626181  
VAT Number: GB 599 3821 79

The latest additions to the PicoScope range combine cutting-edge technology with user-friendly design to meet the diverse needs of analog engineers. Key features include:

- **True 16-bit acquisition:** Bandwidths up to 200 MHz, sampling up to 2.5 GS/s and 1 GS capture memory for low-noise analog and power integrity measurements.
- **5000E Plus high-speed mode:** Switchable 8-bit operation extends bandwidth to 500 MHz, sampling to 5 GS/s and memory to 2 GS for digital edges, higher-frequency analog signals and rapid mixed-signal debug.
- **Ultra-low-noise front end:** Less than 22  $\mu$ V RMS noise floor and better than  $-73$  dB of THD, for measuring low-amplitude signals.
- **Deep capture memory:** 1 GS of sample storage on standard models, doubling to 2 GS on Plus models in 8-bit mode, for capturing long-duration signals at maximum speeds.
- **7-in-1 instrument versatility:** Functions as an Oscilloscope, FFT Spectrum Analyzer, 200 MS/s 14-bit AWG, Function Generator, Frequency Counter, Protocol Analyzer and Logic Analyzer (on MSO models).
- **Portable, USB-C design:** A compact, SuperSpeed USB 3.0 Type-C connected device that leverages your PC's high-fidelity monitor to visualize complex data.
- **PicoSDK<sup>®</sup> support:** Interface directly with the PicoScope 5000E Series using our latest multi-series API and write custom applications using C, C#, C++, Python, MATLAB or LabVIEW.

PicoScope 7 turns the PicoScope 5000E Series into a versatile test platform that benefits from lifetime software upgrades to continuously expand its technical capabilities. For debug and validation, PicoScope 7 includes more than 40 serial protocol decoders, advanced math channels, automated measurements including power analysis, DeepMeasure for multi-capture analysis, measurement and mask limit testing and Actions for code-free test automation.

“With the PicoScope 5000E Series, we focused on the measurements engineers struggle to make on conventional scopes: small ripple and intermittent anomalies that are easy to miss. Pair that with a switchable 16 or 8-bit resolution, it's a versatile piece of equipment that every electronics lab should include.” said James Mackey, Senior Product Marketing Executive at Pico Technology.

### Availability

The PicoScope 5000E Series oscilloscopes are available as 4-channel or 4 + 16 channel mixed-signal oscilloscope (MSO) variants. The standard PicoScope 5000E Series is available in 60, 100 and 200 MHz bandwidth models. The Plus models expand this offering, available in 60/200 MHz, 100/350 MHz and 200/500 MHz models (reflecting their dual 16-bit/8-bit bandwidth capabilities, respectively).



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They are available for purchase through authorized PicoScope distributors worldwide and on [picotech.com](http://picotech.com). For more information about pricing, specifications and availability, contact your local distributor or visit <https://www.picotech.com/oscilloscope/picoscope-5000e-series-16-bit-usb-oscilloscope>

### **About Pico Technology**

For over 30 years, Pico Technology has challenged traditional benchtop scopes by pioneering a software-first approach to Test & Measurement and Automotive Diagnostics. As the UK's only oscilloscope manufacturer and a leader in USB scopes, they have redefined industry expectations by making high-performance, lab-grade tools that are powerful, portable and affordable, accessible to all. That is why more than a million users worldwide trust Pico to turn complex signals into actionable solutions. And, why PicoScope oscilloscopes are the most trusted name in automotive diagnostics.

Please direct all editorial inquiries to:

Samantha Graham  
Marketing Manager  
Pico Technology  
James House  
Colmworth Business Park  
St. Neots, Cambridgeshire  
PE19 8YP  
United Kingdom

Tel: +44 (0) 1480 396395  
Email: [samantha.graham@picotech.com](mailto:samantha.graham@picotech.com)



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St Neots, Cambridgeshire  
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