PC oscilloscope and data logger products
From our headquarters near Cambridge in the UK to our regional offices in Texas, USA and Shanghai, China, we are committed to deliver world-class support to our customers wherever they are.

Pico products are supplied with a Software Development Kit (PicoSDK) that can be used to write custom applications. Direct for Windows, macOS and Linux (including Raspberry Pi and BeagleBone) are included, along with root packages for programming environments such as Microsoft Excel, National Instruments LabVIEW, MathWorks MATLAB, C#, C++ and Python.

Products and accessories from Pico Technology are built and tested according to our ISO 9001 Quality and ISO 14001 Environmental Management Systems for “The design, manufacture, sale and technical support of electronic measuring equipment used for the recording of voltages, current, temperature and humidity.” Traceable calibration is the foundation of our quality system, which means you can rely on measured results from any Pico instrument with complete confidence.

Did you know?...

Pico Technology is also the leading supplier of Automotive diagnostic scopes worldwide! Our automotive equipment is used in both franchised dealerships and independent workshops. Visit www.picotechnology.com for more information.

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### PicoScope oscilloscopes

<table>
<thead>
<tr>
<th>PicoScope 2000 Series</th>
<th>PicoScope 3000 Series with MSD options</th>
<th>PicoScope 4000 Series with MSD options</th>
<th>PicoScope 5000 Series</th>
<th>PicoScope 6000 Series</th>
<th>PicoScope 7000 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000A models with MSD options</td>
<td>2000B models with MSD options</td>
<td>4024 and 4024</td>
<td>4224</td>
<td>4222</td>
<td>4222</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Power and performance in your hand</td>
<td>Bandstop performance in a pocket-sized scope</td>
<td>Power, portability and performance</td>
<td>High-resolution oscilloscopes</td>
<td>Digital oscilloscope for the analog world</td>
</tr>
<tr>
<td><strong>Channels</strong></td>
<td>2 or 4 x 16 MHz with MSD</td>
<td>2 or 4 x 16 MHz with MSD</td>
<td>2 or 4 x 16 MHz with MSD</td>
<td>2, 2 x EPE or 4</td>
<td>2 + EXT</td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td>FG + AWG 100 MHz / 1 MHz</td>
<td>FG + AWG 1 MHz</td>
<td>FG + AWG 1 MHz</td>
<td>None</td>
<td>AWG and low-distortion sine wave generator</td>
</tr>
<tr>
<td><strong>Analog bandwidth</strong></td>
<td>10 to 25 MHz</td>
<td>50 to 100 MHz</td>
<td>50 to 200 MHz</td>
<td>20 MHz</td>
<td>5 MHz</td>
</tr>
<tr>
<td><strong>Sampling rate</strong></td>
<td>100 to 500 MS/s</td>
<td>500 MS/s to 1 GS/s</td>
<td>1 GS/s</td>
<td>60 MS/s</td>
<td>10 MS/s</td>
</tr>
<tr>
<td><strong>Resolution (exchange)</strong></td>
<td>8 bits (12 bits)</td>
<td>8 bits (12 bits)</td>
<td>8 bits (12 bits)</td>
<td>12 bits (16 bits)</td>
<td>16 bits (12 bits)</td>
</tr>
<tr>
<td><strong>Capture memory</strong></td>
<td>8 kS to 48 kS</td>
<td>32 MS to 128 MS</td>
<td>64 MS to 32 MS</td>
<td>32 MS</td>
<td>16 MS</td>
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<tr>
<td><strong>Power</strong></td>
<td>USB</td>
<td>USB</td>
<td>USB or AC adapter</td>
<td>USB</td>
<td>USB</td>
</tr>
<tr>
<td><strong>Price from</strong></td>
<td>£315.00 249</td>
<td>£349.68 249</td>
<td>£157.99 249</td>
<td>£819.00 249</td>
<td>£1,225.00 249</td>
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</tbody>
</table>

**Notes:**
- MKS references input
- AWG auxiliary generator
- TET channel generator
- AWG auxiliary waveform generator

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### Hardware and software development teams at our headquarters in Cambridge, UK.

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PicoScope 6 software

The display can be as simple or as advanced as you need. Begin with a single view of one channel, and then expand the display to include any number of live channels, math channels and reference waveforms. Available in 23 languages.

Serial protocol analysis

PicoScope can decode 1-Wire, ARINC 429, CAN, CAN FD, DCC, DMIS 1.2, Ethernet, FlexRay, PC, RS, LIN, PS/2, SPI, UART (RS-232 / RS-422 / RS-485), and USB 1.1 protocol data as standard, with more protocols in development and available in the future with free-of-charge software upgrades.

Software features

Channel system: Filtration, offset, resolution enhancement, custom probes and more.

Auto setup button: Configures the collection time and voltage range for clear display of signals.

Zoom overview: Clicks and drag for quick navigation in zoomed views.

Zoom and pan tools: PicoScope 6 allows a zoom factor of several million, which is necessary when working with the deep memory of the PicoScope 5000D Series scopes.

Trigger toolbar: Quick access to main controls, with advanced triggering in a pop-up window.

Auto measurements: Controls such as voltage range, scope resolution, channel enable, timebase and memory depth.

QuickScope controls: Controls such as voltage range, scope resolution, channel enable, timebase and memory depth.

Zoom overview: Clicks and drag for quick navigation in zoomed views.

Trigger toolbar: Quick access to main controls, with advanced triggering in a pop-up window.

Auto measurements: Display calculated measurements for troubleshooting and analysis. You can add as many measurements as you need on each view. Each measurement includes statistical parameters showing its variability.

Logic analysis/mixed signal capability: MSO mixed signals models include digital inputs so that you can view digital and analog signals simultaneously. The digital inputs can be displayed individually or in named groups with binary, decimal or hexadecimal values shown in a binary display.

Trigger marker: Drag the yellow diamond to adjust trigger level and pretrigger time.

Automatic measurements: Display calculated measurements for troubleshooting and analysis. You can add as many measurements as you need on each view. Each measurement includes statistical parameters showing its variability.

Logic analysis/mixed signal capability: MSO mixed signals models include digital inputs so that you can view digital and analog signals simultaneously. The digital inputs can be displayed individually or in named groups with binary, decimal or hexadecimal values shown in a binary display.

Advanced digital triggering

Advanced trigger types enable you to capture a stable waveform with complex signals. This is ideal for troubleshooting glitches, timing violations, overvoltages and dropped or noisy digital circuits. Advanced triggers include pulse width, runt, drop-out, logic, and digital modes.

DeepMeasure

Measurement of waveform pulses and cycles is key to verification of the performance of electrical and electronic devices. DeepMeasure delivers automatic measurements of important waveform parameters on up to a million waveform cycles with each triggered acquisition. Results can be easily sorted, analyzed and correlated with the waveform display.

Spectrum analyzer

The FFT spectrum view plots amplitude against frequency. It is ideal for finding noise, crosstalk or distortion in signals.

You can display multiple spectrum views alongside oscilloscope views of the same data. A comprehensive set of automatic frequency-domain measurements can be added to the display, including THD, THD+N, SNR, SINAD and IMD. Ffts of up to 1 million points can be computed in milliseconds giving superb frequency resolution.

Software development kit (SDK)

The SDK allows you to write your own software and includes drivers for Microsoft Windows, macOS and Linux, including Raspberry Pi and BeagleBone. Example code shows how to interface to third-party software packages such as Microsoft Excel, National Instruments LabVIEW, MathWorks MATLAB and Python.
PicoScope 2000 Series

- 2 channel, 4 channel and MSO models
- 7 instruments in one
- 8-bit resolution
- Ultra-compact design
- Up to 100 MHz bandwidth
- Up to 128 MS capture memory
- Decode up to 16 serial protocols
- USB connected and powered
- Signal generator and AWG
- Supported in PicoScope 6 and PicoLog

Benchtop performance in a pocket-sized scope

You can use your PicoScope 2000 Series as an advanced oscilloscope, spectrum analyser, function generator, arbitrary waveform generator, data logger and protocol decoder out of the box. Mixed signal models also add a 16 channel logic analyzer. A complete electronics lab in one compact, low-cost, USB-powered unit.

The PicoScope 2000A models deliver unbeatable value for money and are ideal for education, hobby and field service use. In the lab the low cost allows one scope per person rather than having to share.

The PicoScope 2000B models have the added benefits of deep capture memory (up to 128 MS), higher bandwidth (up to 100 MHz) and faster waveform update rates. PicoScope 2000B models give you the performance to carry out advanced analysis of your waveforms. They are ideal for design, debug and serial decoding.

PicoScope 3000 Series

Power, portability and performance

The PicoScope 3000 Series PC oscilloscopes are small, light, and portable, while offering the high-performance specifications required by engineers in the lab or on the move.

These oscilloscopes offer 2 or 4 analog channels, plus an additional 16 digital channels on the MSO models.

- 2 channel, 4 channel and MSO models
- 8-bit resolution
- Up to 200 MHz analog bandwidth
- Up to 512 MS capture memory
- 1 GSa/s real-time sampling
- 100,000 waveforms per second
- Decode 16 serial protocols as standard
- USB 3.0 connected and powered
- Signal generator and AWG

PicoScope 3200A 3202D 3204D 3206D 3208D 3210D 3212D
- Channels 2 4 4 4 4 4 4
- Bandwidth 100 MHz 50 MHz 25 MHz 125 MHz 250 MHz 500 MHz 1 GSa/s
- Sample rate 6.5 GSa/s 4.1 GSa/s 2.1 GSa/s 1 GSa/s 1 GSa/s 1 GSa/s 1 GSa/s
- Capture memory 512 MS 256 MS 128 MS 256 MS 128 MS 128 MS 128 MS
- Price $519 $619 $750 $1,179 $1,895 $3,350 $3,895

PicoScope 3200D 3202D-MSO 3204D-MSO 3206D-MSO 3208D-MSO 3210D-MSO 3212D-MSO
- Channels 4 4 4 4 4 4 4
- Bandwidth 50 MHz 70 MHz 100 MHz 250 MHz 500 MHz 1 GSa/s 1 GSa/s
- Sample rate 6.5 GSa/s 4.1 GSa/s 2.1 GSa/s 1 GSa/s 1 GSa/s 1 GSa/s 1 GSa/s
- Capture memory 512 MS 256 MS 128 MS 256 MS 128 MS 128 MS 128 MS
- Price $789 $899 $1,295 $2,290 $3,490 $6,390 $6,995

For full product specifications please visit www.picoscope.com

* Including and Parallel, ** Shared between active channels
PicoScope 4224 and 4424

High resolution oscilloscopes
The PicoScope 4224 and 4424 offer both high resolution (12 bits) and high DC accuracy (1%) making them an excellent choice for noise, vibration, precision electronics and mechanical analysis.
The optional IEPE model has built-in constant current sources that allow the direct connection and powering of industry standard accelerometers and microphones.

- 2 or 4 channels
- 12-bit resolution
- IEPE model available (for accelerometers, microphones etc)
- 20 MHz bandwidth
- 32 MS capture memory
- Decode 16 serial protocols as standard
- USB connected and powered

<table>
<thead>
<tr>
<th>P0478</th>
<th>PicoScope 4224</th>
<th>Includes probes and carry case</th>
<th>2 channels</th>
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<th>€979</th>
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<tr>
<td>P0695</td>
<td>PicoScope 4224 IEPE Scope only</td>
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<td>£989</td>
<td>€119</td>
<td>£679</td>
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<td>P0479</td>
<td>PicoScope 4424</td>
<td>Includes probes and carry case</td>
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<td>£1365</td>
<td>€1565</td>
<td>£949</td>
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</table>

PicoScope 4262

Digital oscilloscope for the analog world
Most digital oscilloscopes have been designed for viewing fast digital signals. The trend has been to use new technology solely to increase sampling rate and bandwidth. With the PicoScope 4262, however, we have focused on what's important for measuring analog signals: increasing the resolution, improving dynamic range, and reducing noise and distortion.
The result is an oscilloscope / FFT analyzer that has a level of performance to put most audio analyzers to shame. It has a 5 MHz bandwidth making it equally suitable for vibration and ultrasound signals as well as a wide range of precision measurement tasks.
The PicoScope 4262 has a built-in 20 kHZ function generator (sine, square, triangle, DC voltage, ramp, sinc, Gaussian, half-sine, white noise and PRBS). The function generator offers an outstanding sine wave distortion performance of 102 dB SFDR.

- 2 channel oscilloscope / spectrum analyzer
- 16-bit resolution
- Low distortion (96 dB SFDR)
- Low noise (8.5 µV RMS)
- 5 MHz bandwidth
- 16 MS capture memory
- Low-distortion signal generator
- Arbitrary waveform generator
- USB connected and powered

| P0799 | PicoScope 4262 | Includes probes | 2 channel + external trigger | £1235 | €145 | £859 |

PicoScope 4444

High-resolution differential oscilloscope
With four true differential inputs, 12 or 14-bit resolution and wide differential and common-mode voltage ranges, the PicoScope 4444 and its accessories offer accurate and detailed measurement for a multitude of applications, from low-amplitude biomedical and electronic uses to 1000 V CAT III design and test.

- 4 true differential high-impedance inputs
- 20 MHz bandwidth
- FlexRes 12 or 14-bit resolution
- 256 MS capture memory

Intelligent probe interface
The scope’s 9-pin D-type connectors create an intelligent true differential probe interface and allow the PicoScope software to automatically identify the probe and select the appropriate display settings. These Pico D9 connectors also mean that probes that would usually require battery packs or power supplies can draw their power through the scope device instead.

<table>
<thead>
<tr>
<th>PQ073</th>
<th>PicoScope 4444 standard low voltage kit</th>
<th>£535</th>
<th>€635</th>
<th>£4075</th>
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<tr>
<td>PQ074</td>
<td>PicoScope 4444 1000 V CAT III kit</td>
<td>£915</td>
<td>€1065</td>
<td>£845</td>
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</table>

Low voltage 1:1 probe 1000 V CAT II probe 40 A Current probe D9 to BNC D9 to dual BNC

3 phase power test Power inverter test Biological (heartbeat) test
PicoScope 4824

8 channel oscilloscope

The PicoScope 4824 is a low-cost, portable solution for multi-input applications. With 8 high-resolution analog channels you can easily analyze audio, ultrasound, vibration, power, and timing of complex systems.

Despite its compact size, there is no compromise on performance. With a high 12-bit vertical resolution, bandwidth of 20 MHz, 256 MS capture memory, and a fast sampling rate of 80 MS/s, the PicoScope 4824 has the power and functionality to deliver accurate results. It also features capture memory to analyze multiple serial buses such as UART, I2C, SPI, CAN and LIN plus control and driver signals.

- 8 channels
- 12-bit resolution
- 20 MHz bandwidth
- 256 MS capture memory
- 14-bit signal generator and AWG
- Decode 16 serial protocols as standard
- USB 3.0 connected and powered
- Supports PicoScope 6 and PicoLog 6

PicoScope 5000 Series

- 2 channel, 4 channel and MSO models
- FlexRes 8 to 16-bit hardware resolution
- Up to 200 MHz analog bandwidth
- 1 GS/s sampling at 8-bit resolution
- 62.5 MS/s sampling at 16-bit resolution
- Up to 512 MS capture memory
- 130,000 waveforms per second
- Signal generator and AWG
- Decode 18 serial protocols as standard
- USB 3.0 connected

The complete all-rounders: FlexRes® and MSO oscilloscopes

Today’s electronic designs employ a wide range of signal types: analog, digital, serial (both high- and low-speed), parallel, audio, video, power distribution and so on. All need to be debugged, measured and validated to ensure that the device under test is functioning correctly and within specification.

To handle this variety of signal types, PicoScope 5000 FlexRes® hardware employs multiple high-resolution ADCs at the input channels in different time-interleaved and parallel combinations to optimize either the sampling rate to 1 GS/s at 8 bits, the resolution to 16 bits at 62.5 MS/s, or other combinations in between – you select the most appropriate hardware resolution for the requirements of each measurement.

2 and 4 channel models are available, all featuring a SuperSpeed USB 3.0 connection, providing lightning-fast saving of waveforms while retaining compatibility with older USB standards. The PicoSDK software development kit supports continuous streaming to the host computer at rates up to 125 MS/s. The product is small and light, and operates silently thanks to its low-power fanless design.

<table>
<thead>
<tr>
<th>PicoScope</th>
<th>2422D</th>
<th>2422D MSO</th>
<th>2423D</th>
<th>2423D MSO</th>
<th>2442D</th>
<th>2442D MSO</th>
<th>2443D</th>
<th>2443D MSO</th>
</tr>
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<tbody>
<tr>
<td>Channels</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Bandwidths</td>
<td>60 MHz</td>
<td>160 MHz</td>
<td>250 MHz</td>
<td>300 MHz</td>
<td>40 MHz</td>
<td>100 MHz</td>
<td>150 MHz</td>
<td>200 MHz</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>1 GS/s</td>
<td>2 GS/s</td>
<td>2 GS/s</td>
<td>2 GS/s</td>
<td>2 GS/s</td>
<td>2 GS/s</td>
<td>2 GS/s</td>
<td>2 GS/s</td>
</tr>
<tr>
<td>Capture memory</td>
<td>1 GS/s</td>
<td>1 GS/s</td>
<td>1 GS/s</td>
<td>1 GS/s</td>
<td>1 GS/s</td>
<td>1 GS/s</td>
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<tr>
<td>Price</td>
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<td>£595</td>
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<td>£796</td>
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</tbody>
</table>

For full product specifications please visit: www.picotech.com

* Available in Shortgrass ** Shared between active channels and depends on select resolution
PicoScope 6000 Series

Highest performance real-time oscilloscopes

The PicoScope 6000 Series is the ultimate USB oscilloscope. High-end features such as serial decoding, mask limit testing and segmented memory are included as standard.

- 4 channels
- Up to 500 MHz bandwidth
- 5 GSample/s real-time sampling rate
- Up to 2 GS ultra-deep capture memory
- 170 000 waveforms per second
- Arbitrary waveform generator (AWG) on D models
- USB 3.0 connected

PicoScope 6407

High speed digitizer

The PicoScope 6407 is a compact USB plug-in device that turns your PC or laptop into a 4-channel, high-speed digitizer. The PicoScope 6407 has high-bandwidth 50 Ω inputs with fixed ±100 mV input ranges and SMA connectors. Larger input signals can be accommodated with the use of external attenuators.

- 4 channels (fixed ±100 mV)
- 1 GHz bandwidth
- 1 GS capture memory size
- 5 GS/s real-time sampling rate
- Built-in function generator/AWG
- SMA input connectors
- USB 2.0 connected

PicoScope 9000 Series

Sampling oscilloscopes:

- Up to 25 GHz bandwidth models
- Up to 15 GHz prescaled, 2.5 GHz direct trigger and 11.3 GSample/s clock recovery
- Industry-leading 16-bit 1 MS/s ADC and 60 dB dynamic range
- Eye and mask testing to 16 GSample/s with up to 2^21 pattern lock
- Comprehensive built-in measurements, histogramming and editable data mask library
- Integrated, differential, deskalwable TDR/TDT step generator
- Intuitive, touch-compatible Windows user interface

With up to 25 GHz bandwidth, the PicoScope 9000 Series sampling oscilloscopes address digital and telecommunications applications of 10 GSample/s and higher, microwave applications up to 25 GHz and timing applications with a resolution down to 64 fs. Optional 11.3 GSample/s clock recovery, optical to electrical converter or differential deskalwable time domain reflectometry sources (60 ps/7 V) complete a powerful, small-footprint and cost-effective measurement package.

Prices from $1095 | €9285 | £7675

More RF products from Pico...

Find out more about our other RF products at www.picotech.com/rf-products

PicoSource™ AS108

8 GHz Agile Synthesizer

Professional and portable performance at low cost, CW, sweep, HFP and list modes. Simulate schemes such as QPSK, QAM, ASK, and FSK.

Prices from $595 | €505 | £420

PicoVNA™ 106

6 GHz Vector Network Analyzer

A low-cost, professional-grade 6 GHz VNA for both lab and field use. Professional and portable quad receiver 118 dB design with bias-Ts. Up to 5000 dual path Touchstone 5-parameters per second. <0.005 dB RMS noise in 140 kHz bandwidth.

Prices from $595 | €505 | £420
Accessories

Our range of oscilloscope accessories has been carefully chosen for use with PicoScope oscilloscopes. Please refer to www.picotech.com for prices.

Passive probes

TA062 passive probe (BNC)
TA061 passive probe (SMA)
These very high-bandwidth 1.5 GHz low-impedance probes are suitable for use with high-speed oscilloscopes and spectrum analyzers. Available with either an SMA or a BNC connector.

TA150 350 MHz passive probe
TA133 500 MHz passive probe
High-quality, high-impedance BNC oscilloscope probes. Each probe is supplied with a range of accessories for convenient, accurate measurements. Fixed 10:1 attenuation. Ideal for use with the PicoScope 6000 series.

PicoConnect 900 Series
A family of high-performance RF, microwave and pulse probes allowing cost-effective fingertip browsing of broadband signals up to 5 GHz (10 GHz).

TA386 150 MHz passive probe
TA376 250 MHz passive probe
High-quality, high-impedance, BNC oscilloscope probes. A two-position side switch selects attenuation of either 1:1 or 10:1.

Current probes

Current probes offer a safe, cost-effective, simple and accurate way to take current measurements. They enable you to measure currents without breaking the electric circuit. Current probes are designed with sensors that can be opened, placed around the conductor and securely fastened to form a loop around the conductor.

The Pico current probes shown here can be used with Pico oscilloscopes and data loggers, as well as with all major brands of oscilloscopes and multimeters.

Please refer to www.picotech.com for prices

Active differential probes

Active differential probes extend the functionality of standard single-ended input oscilloscopes to allow a safe and accurate method of making high-voltage differential measurements.

Applications include making safe measurements in power circuit applications and acquisition of low-speed balanced differential signals found in serial communications buses.

Active single-ended probes

The TETRIS range is independent of any particular system and can be plugged into any measuring instrument with a 50 Ω input. With an input resistance of 1 MΩ and an input capacitance of just 0.9 pF, the TETRIS probes are suitable for measurements in all frequency ranges. Compared to passive probes, the TETRIS active probes offer a high input impedance into the GHz range. Three probes are available from 1 GHz to 2.5 GHz bandwidth.

Other probes and sensors

Three-axis accelerometer
The PPRX7 is a three-axis MEMS accelerometer and oscilloscope interface. It is supplied with three short BNC to BNC cables which plug directly into any PicoScope oscilloscope with three or more analog channels. High-resolution oscilloscopes such as the PicoScope 642X Series are recommended to take advantage of their increased sensitivity.

- ± 5 g measurement range
- Mounting magnet included
- DC to 350 Hz frequency range
- 3 x BNC to BNC cables included

Attenuator set: BNC 50 Ω 0, 1, 2, 5, 10 dB, 1 GHz, 3, 6, 10, and 20 dB
The TA0505 attenuator set consists of four coaxial attenuators designed for use with signals up to 1 GHz. Each attenuator has a male and a female BNC connector.

A wide range of 4 mm (banana plug) cables, connectors, adaptors, clips and probes are available, with CAT II and CAT III ratings also available.
PicoLog 6 software

PicoLog 6 is a complete data acquisition software package which is fully compatible with Windows, macOS, and Linux.

With its clear and user-friendly layout, ideal for use with a mouse or a touchscreen, PicoLog 6 allows you to set up the logger and start recording with just a few clicks of the mouse, regardless of your level of data logging experience. Set up simple or advanced acquisitions quickly, and record, view, and analyze your data with ease. Available in 7 languages.

Software features

Intuitive logger and channel setup

In the Device Configuration view you can instantly see the status of instruments, channel settings and math channels. An image of the device appears for each device detected, showing which channels are enabled. From this screen you can view and adjust settings such as adding graph axes, per-channel scaling factor, alarms, notes, graph annotations, channel names and color, sample mode and sample interval.

View live data in Graph View

The PicoLog 6 Graph View makes it easy to view captures, zoom and pan through large datasets, record alarm history and display when alarms occurred. It also allows you to annotate the graph with your notes and observations.

Adding additional graph axes is also essential for multi-channel logging applications where measurement units are different for every channel, or when the channels are measuring values at opposite ends of the range. You can view up to four axes with different ranges at a time.

View live numerical data in table format

Table View allows you to view live and saved data from your logger.

When configuring table view, it is possible to add 4 statistical parameters to each channel: last sample, minimum, maximum and average. In addition, you can specify the table update rate for the display of live data or the time interval between rows for saved data.

Alarms and annotations

In PicoLog 6, you can set up an alarm to alert users when a parameter goes out of range. This can be configured to play a sound, display a visual alert on the screen, run a specified application such as an email or SMS client, and automatically annotate the capture graph to mark when the alarm happened and its duration. Alarms can also trigger a digital output on devices with supporting hardware, such as the PicoLog 1000 Series, ADC-24 and ADC-26. You can even trigger a digital output from one of these devices based on an alarm condition from another connected logger without digital outputs, such as a T-G6.

Exporting data

Exporting large datasets to CSV can often be troublesome due to file size limitations, so PicoLog 6 includes a suite of export options using the Table View to build your dataset. These include downsampling, selecting channels to export or even restricting the export region to the zoomed area on screen.

Want to export a screen shot? PicoLog 6 includes a feature to export the graph as a PDF, again, select either the entire capture or the zoomed area of interest. The export to PDF format also includes options to include alarms, trigger history, annotations, channel configuration and capture notes, for a complete capture report.

Math channels

Some applications require the recording and graphing of a calculated parameter containing data from one or more measurement channels. PicoLog 6 is equipped with an equation builder to perform simple calculations such as A - B, or more complex functions such as log, sqrt, abs, round, min, max, mean and median. Math channels are treated like any normal channel, so you can perform functions like alarms, graphing and annotations on them.

Try the PicoLog 6 software today!

PicoLog 6's bulletin demo mode allows you to try out the full functionality of the software with a choice of virtual devices and simulated live data. You can also use PicoLog 6 to view previously saved data, even with no device connected. Visit www.picotech.com/downloads and select PicoLog Data Loggers to get your copy.
PicoLog data loggers

Data acquisition products provide a straightforward answer to your data logging needs. Our data loggers require no power supply and simply plug into a USB port on your PC, or an Ethernet port on your PC or network. Every logger is supplied with PicoLog 6 data acquisition software so you can measure, record and analyze your data (see previous page for more information).

PT-104
Precision Temperature Data Logger
- Measures temperature, resistance and voltage
- High resolution (0.001 °C) and accuracy (0.015 °C)
- Works with PT100 and PT1000 sensors
- Supports 2, 3 and 4-wire sensors
- USB and Ethernet (PoE) interfaces
- No additional power supply required if using USB
- Run multiple units on a single PC

<table>
<thead>
<tr>
<th></th>
<th>PNP682</th>
<th>PT-104</th>
<th>$659</th>
<th>£559</th>
<th>€459</th>
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A range of accessories is available at www.picotech.com

PicoLog 1000 Series
Multi-purpose Data Loggers
- Up to 16 input channels per data logger
- Includes screw terminal board
- Use up to 20 data loggers at the same time
- Up to 1 MS/s sample rate using PicoSDK
- USB connected and powered
- Compatible with PicoScope 6 and PicoLog 6

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<th></th>
<th>PPS46</th>
<th>PicoLog 1012</th>
<th>12 channel</th>
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<td>PPS47</td>
<td>PicoLog 1216</td>
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ADC-20 and ADC-24
Precision Data Loggers
- 20 and 24-bit resolution models available
- Up to 8 true differential inputs
- Up to 16 single-ended inputs
- Up to 7 input ranges (-3.3 V to ±2500 mV)
- Digital outputs for control
- Galvanic isolation from the PC to eliminate noise pickup
- Includes screw terminal board

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<th>PP911</th>
<th>ADC-20</th>
<th>8 single-ended inputs or 4 true differential inputs</th>
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<td>PP912</td>
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<td>16 single-ended inputs or 8 true differential inputs</td>
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DrDAQ
Educational Data Logger
- Oscilloscope / spectrum analyzer
- Signal generator / arbitrary waveform generator
- Built-in sensors for light, temperature and sound
- Measure pH and redox — just plug in any standard electrode
- Sockets for external sensors including temperature and humidity
- 4 digital inputs and outputs (alarms, PWM, pulse counting)
- USB connected and powered
- Very low cost
- For more information please visit www.drdaq.com

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<tr>
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<th>PP906</th>
<th>DrDAQ logger only</th>
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