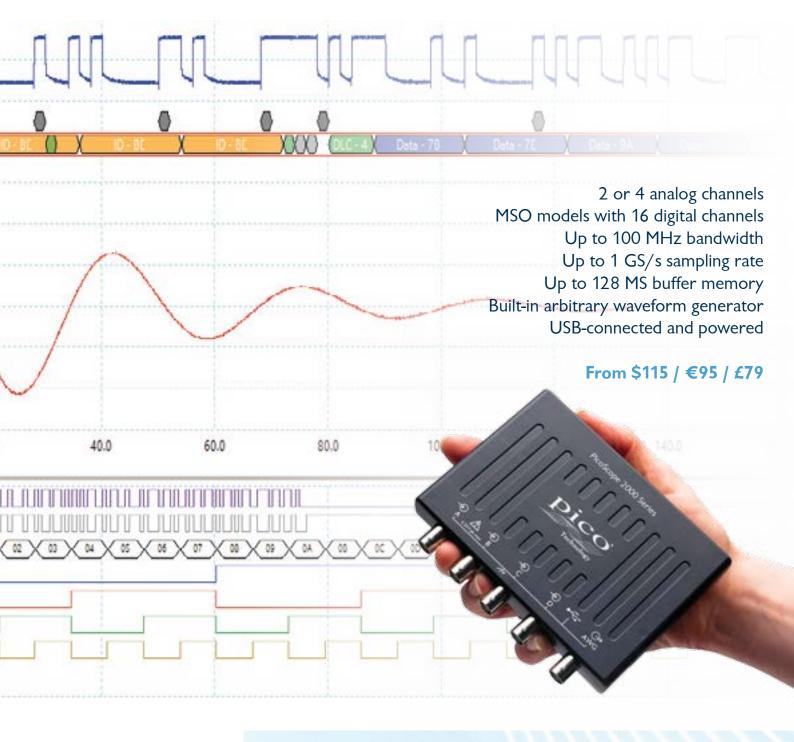


PicoScope[®] 2000 Series

The compact alternative to a benchtop oscilloscope



www.picotech.com

Introducing the PicoScope 2000 Series

The PicoScope 2000 Series offers you a choice of 2- and 4-channel oscilloscopes, plus mixed-signal oscilloscopes (MSOs) with 2 analog + 16 digital inputs. All models feature spectrum analyzers, function generators, arbitrary waveform generators and serial bus analyzers, and the MSO models also function as logic analyzers.

The PicoScope 2000A models all deliver unbeatable value for money, with excellent waveform visualization and measurement to 25 MHz for a range of analog and digital electronic and embedded system applications. They are ideal for education, hobby and field service use.

The PicoScope 2000B models have the added benefits of deep memory (up to 128 MS), higher bandwidth (up to 100 MHz) and faster waveform update rates, giving you the performance you need to carry out advanced analysis of your waveform, including serial decoding and plotting frequency against time.



2-channel oscilloscope: 2204A and 2205A



2-channel oscilloscope: 2206B, 2207B and 2208B



The PicoScope 6 software takes advantage of the display size and resolution and processing power of your PC – in this case displaying four analog signals, a zoomed view of two of the signals (undergoing serial decoding), and a spectrum view of a third, all at the same time. Unlike a conventional benchtop oscilloscope, the size of the display is limited only by the size of your computer monitor. The software is also easy to use on touch-screen devices – you can pinch to zoom and drag to scroll.



4-channel oscilloscope



2+16-channel mixed-signal oscilloscope (MSO)

Advanced oscilloscope display

Powerful, portable and super-small

The PicoScope 2000 Series oscilloscopes are compact enough to fit easily into your laptop bag along with all their probes and leads. These modern alternatives to bulky benchtop devices are ideal for a wide range of applications including design, test, education, service, monitoring, fault-finding and repair and are perfect for engineers on the move.

Fast sampling

The PicoScope 2000 Series oscilloscopes provide fast real-time sampling rates of up to 1 GS/s on the analog channels: this represents a timing resolution of 1 ns.

For repetitive analog signals, equivalent-time sampling (ETS) mode can boost the maximum effective sampling rate up to 10 GS/s, allowing even finer resolution down to 100 ps. All scopes support pre-trigger and post-trigger capture using the full memory depth.





High signal integrity

Here at Pico Technology, we're proud of the dynamic performance of our products. Careful front-end design and shielding reduce noise, crosstalk and harmonic distortion. Decades of oscilloscope design experience can be seen in improved pulse response and bandwidth flatness.

The result is simple: when you probe a circuit, you can trust in the waveform you see on the screen.

High-end features as standard

Buying a PicoScope is not like making a purchase from other oscilloscope companies, where increased functionality can considerably raise the price. PicoScopes are all-inclusive instruments, with no need for expensive upgrades to unlock the hardware. Other advanced features such as resolution enhancement, mask limit testing, serial decoding, advanced triggering, automatic measurements, math channels (including the ability to plot frequency and duty cycle against time), XY mode and segmented memory are all included in the price.

USB connectivity



The USB connection makes printing, copying, saving, and emailing your data from the field quick and easy. The high-speed USB interface allows fast data transfer, while USB powering removes the need to carry around a bulky external power supply.

Flexibility

The PicoScope software offers a breadth of advanced features via a user-friendly interface. As well as the standard Windows installation, PicoScope Beta software also works effectively on Linux and Mac operating systems, giving you the freedom to choose which platform you operate your PicoScope from.

Unique commitment to product support

Your PicoScope gets better the longer you use it, thanks to the regular free updates we supply for both the PC software and the oscilloscope firmware throughout the life of the product: the performance and functionality of the scope both keep improving, without you paying a penny more than the purchase price.

This level of support, combined with the personal service provided by our technical and sales support teams, is reflected in the consistently good feedback we get from users of our products, many of whom have gone on to be regular customers.

PicoScope 6 software

The PicoScope software display can be as simple or as detailed as you need. Begin with a single view of one channel, and then expand the display to include up to four live channels, plus math channels and reference waveforms.

Tools > Serial decoding: Decode multiple serial data signals and display the data alongside the physical signal or as a detailed table. Tools > Reference waveforms: Store waveforms in memory or on

disk and display them alongside live inputs. Ideal for diagnostics and production testing.

draw one by hand. PicoScope highlights any parts of the waveform that fall outside the mask and shows error statistics.

across the screen to make quick measurements of Tools > Masks: Automatically generate a test mask from a waveform or amplitude, time and frequency. Views: PicoScope is carefully designed to make the best use of the display area. The waveform Channel options: Set axis offset view is much bigger and higher resolution than a and scaling, DC offset, zero offset, typical benchtop scope. You can add new scope and **Touch-screen support:** resolution enhancement, custom spectrum views with automatic or custom layouts. Handy buttons let you probes, and filtering here. make fine adjustments with Trigger marker: Drag the a mouse or a touch screen. marker to adjust trigger level and in, zoom-out and pan tools, or click and drag in pre-trigger time. the Zoom Overview window for fast navigation. Auto setup button: Configures the timebase Ruler legend: Absolute and and voltage ranges for stable display of signals. are listed here. Iocis Ele Edit 260 Measurements Help C 🕼 📢 S0 µs/div (Du IL du 4 1 MS 1.18 ally. 4 1 of 1 1 ×. C × MC. 4 11 DC 4 *10 V ×. XIIX Scope 1 10.0 V -1.361 us 49.6 us 151.0 µs 6.0 4.0 2.0 2.0 4.0 0.0 -6.0 -2.0 8.0 4.0 200 6.0 Q 0.0 Ċ 50.0 100.0 200.0 250.0 350.0 400.0 50.0 150.0 300.0 07 Spectrum 1 201 dan 23.7 45.81 67.91 -90. 10.0 15 16 29.78 % 19.76 % 39.75 % 39,76 % # 1 A St < 1.811 V 4 10 % Measurements 🚺 Cal Cal Rules 🖾 Stopped Trigger Single 10

Movable axes: The vertical axes can be dragged up and down. This feature is particularly useful when one waveform is obscuring another. There's also an Auto Arrange Axes command.

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

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.

Spectrum view: View FFT data alongside scope view or in dedicated spectrum mode.

Oscilloscope controls: Controls such as voltage range, channel enable, timebase and memory depth are placed on the toolbar for quick access, leaving the main display area clear for waveforms.

> Waveform replay tools: PicoScope automatically records up to 10 000 of the most recent waveforms. You can quickly scan through to look for intermittent events, or use the Buffer Navigator to search visually.

> Function generator: Generates standard signals or arbitrary waveforms. Includes frequency sweep mode.

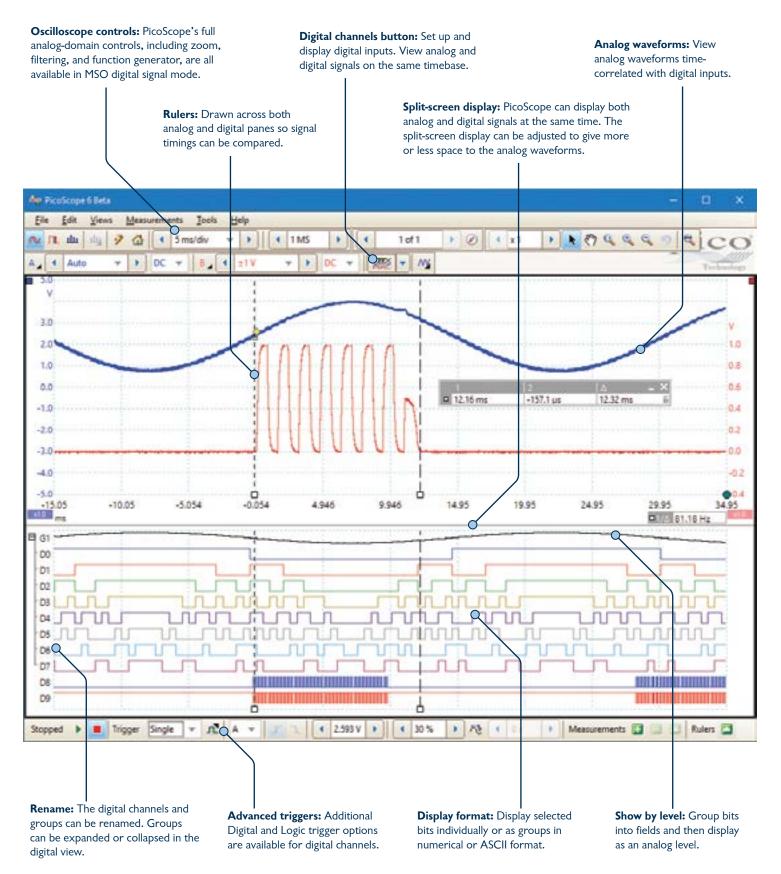
Rulers: Each axis has two rulers that can be dragged

Zoom and pan tools: PicoScope makes it easy to zoom into large waveforms. Either use the zoom-

differential ruler measurements

PicoScope 6 software with mixed digital and analog signals

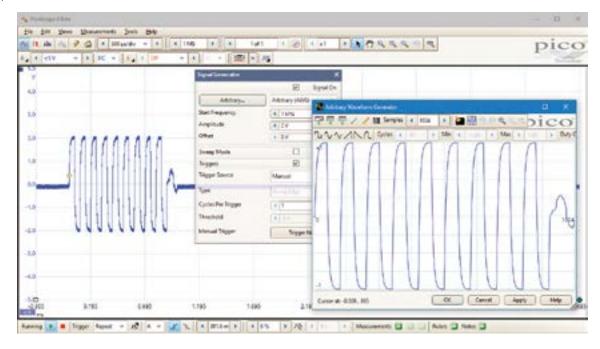
The flexibility of the PicoScope 6 software interface allows high-resolution viewing of all analog and digital channels at once, along with math channels and reference waveforms. You can use the whole of your PC's display to view the waveforms, ensuring you never miss a detail again.



Arbitrary waveform and function generators

All PicoScope 2000 Series oscilloscopes have a built-in function generator and arbitrary waveform generator (AWG). The function generator can produce sine, square, triangle and DC level waveforms, and many more besides, while the AWG allows you to import waveforms from data files or create and modify them using the built-in graphical AWG editor.

As well as level, offset and frequency controls, advanced options allow you to sweep over a range of frequencies. Combined with the advanced spectrum mode, with options including peak hold, averaging and linear/log axes, this creates a powerful tool for testing amplifier and filter responses.



Digital triggering

Most digital oscilloscopes still use an analog trigger architecture based on comparators. This can cause time and amplitude errors that cannot always be calibrated out. The use of comparators often limits the trigger sensitivity at high bandwidths and can also create a long trigger rearm delay.

For 25 years, Pico Technology has been pioneering the use of full digital triggering using the actual digitized data. This eliminates trigger errors and allows our oscilloscopes to trigger on the smallest signals, even at the full bandwidth. All triggering is digital, resulting in a threshold resolution equal to the digitizing resolution, with programmable hysteresis and optimal waveform stability.

The reduced rearm delay provided by digital triggering, together with segmented memory, allows the capture of events that happen in rapid sequence. Rapid triggering, available on most models, can capture a new waveform every 1 or 2 microseconds, depending on the model, at the fastest timebase, until the buffer is full. The mask limit testing function helps to detect waveforms that fail to meet your specifications.

As well as the standard range of triggers found on most oscilloscopes, the PicoScope 2000 Series offers one of the best selections of advanced triggers available. These include pulse width, window and dropout triggers to help you find and capture your signal quickly.

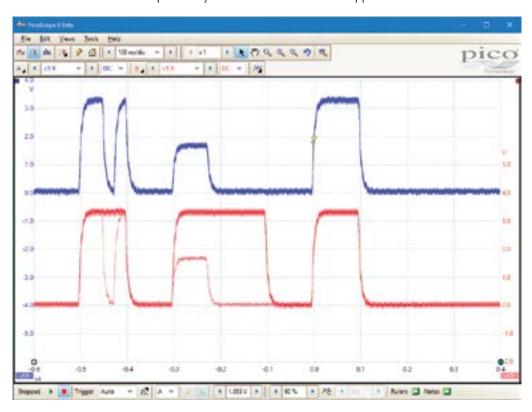
| ∑ Simple Lige ∫ Advanced Edge | Source | A | Ψ. | Threshold | 4 OV > | J. |
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Color persistence modes

Advanced display modes allow you to see old and new data superimposed, with new data in a brighter color or shade. This makes it easy to see glitches and dropouts and to estimate their relative frequency. Choose between analog persistence, digital color and fast display modes or create your own custom rules.



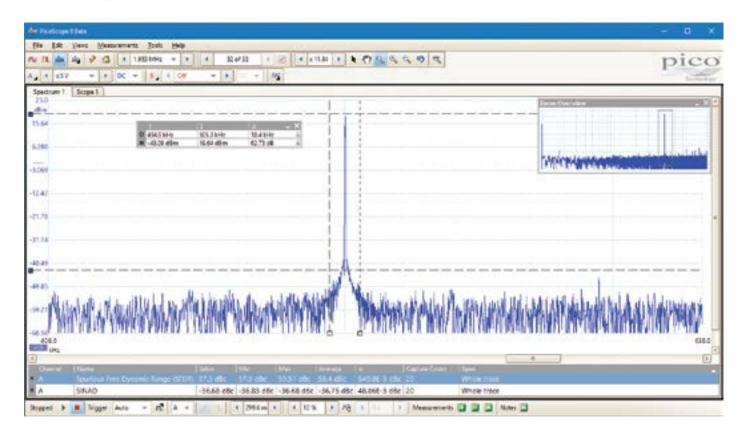
The PicoScope 2000 Series' use of hardware acceleration means that, in Fast Persistence mode, waveform update rates of up to 80 000 waveforms per second can be achieved (model-dependent), overlaying them all with color-coding or intensity-grading to show which areas are stable and which are intermittent. Faults that previously took minutes to find now appear within seconds.



Spectrum analyzer

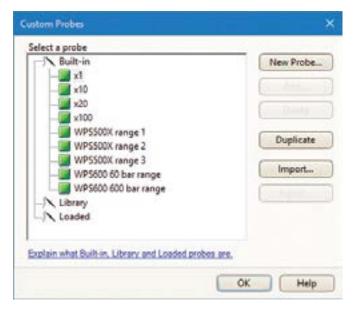
With a click of a button, you can open a new window to display a spectrum plot of selected channels up to the bandwidth of the oscilloscope. A comprehensive range of settings gives you control over the number of spectrum bands, window types and display modes.

PicoScope software allows you to display multiple spectrum views with different channel selections and zoom factors, and see these alongside time-domain waveforms of the same data. A comprehensive set of automatic frequency-domain measurements can be added to the display, including THD, THD+N, SINAD, SNR and IMD. You can even use the AWG and spectrum mode together to perform swept scalar network analysis.



Custom probe settings

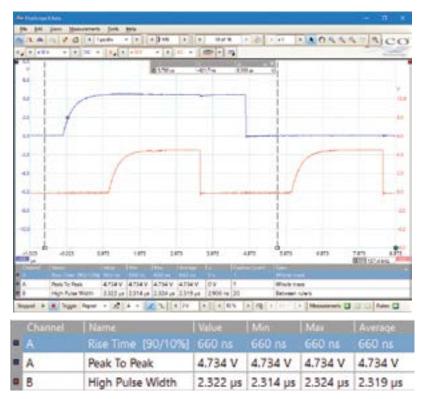
The custom probes menu allows you to correct for gain, attenuation, offsets and nonlinearities of probes and transducers, or convert your waveform data to different units such as current, scaled voltage, temperature, pressure, power or dB. Definitions can be saved to disk for later use. Definitions for standard Pico Technology oscilloscope probes are built in, and you can also create your own using linear scaling or even an interpolated data table.



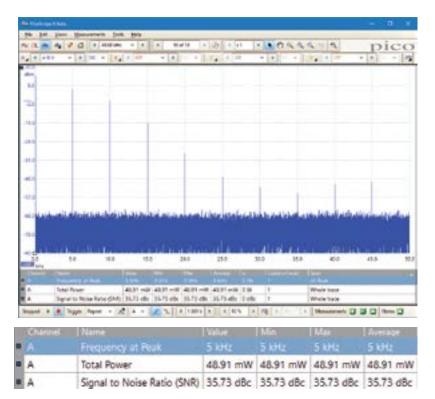
Automatic measurements

PicoScope allows you to automatically display a table of calculated measurements for troubleshooting and analysis. Using the built-in measurement statistics you can see the average, standard deviation, maximum and minimum of each measurement as well as the live value.

You can add as many measurements as you need on each view - 15 different measurements are available in scope mode, and 11 in spectrum mode. For information on these measurements, see **Automatic Measurements** in the **Specifications** table.



Scope mode



Spectrum mode

Serial decoding

The PicoScope 2000 Series oscilloscopes include serial decoding capability as standard. Display the decoded data in the format of your choice: as a **graph**, in a **table**, or both at once.

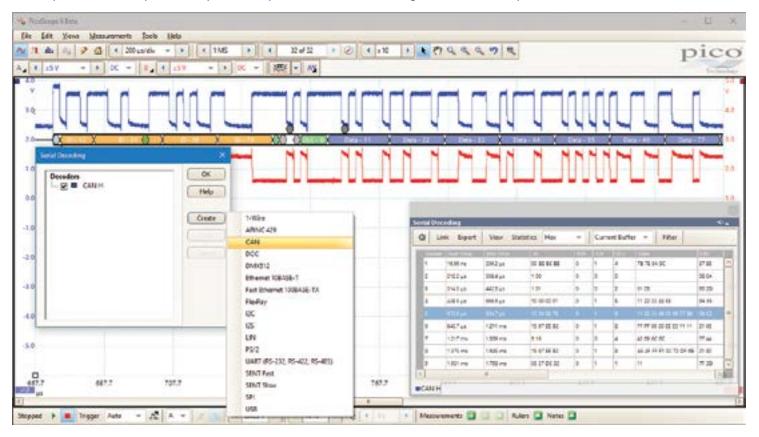
• **Graph** format shows the decoded data beneath the waveform on a common time axis, with error frames marked in red. You can zoom in on these frames to investigate noise or distortion. The data packets are broken down into their component fields, making it easier than ever to locate and identify problems signals, and each packet field is assigned a different color: in the CAN bus example below, the address is colored orange, the DLC green and the data content indigo. Color coding is available in PicoScope 6.12 or later, available for download from www.picotech.com.

• **Table** format shows a list of the decoded frames, including the data and all flags and identifiers. You can set up filtering conditions to display only the frames you are interested in, search for frames with specified properties, or define a start pattern to signal when the program should list the data.

It is also possible to link decoded numeric data to user-defined text strings, for ease of reading.

With the PicoScope 2000 Series, you can decode up to 15 serial protocols, including 1-Wire, CAN, I²C, I²S, LIN, SENT, SPI and UART/RS-232, depending on the bandwidth and sampling rate of the oscilloscope model. Please see the specification table for the full list.

PicoScope also includes options to import and export the decoded data using a Microsoft Excel spreadsheet.



Serial decoding for digital signals

The PicoScope 2000 Series MSO models bring extra power to the serial decoding features. You can decode serial data on all analog and digital inputs simultaneously, giving you up to 18 channels of data with any combination of serial protocols. For example, you can decode multiple SPI, I²C, CAN bus, LIN bus and FlexRay signals all at the same time!

Waveform buffer and navigator

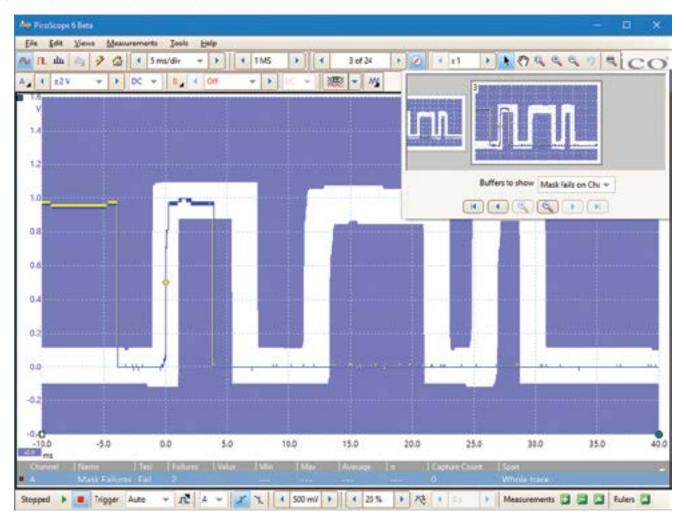
Ever spotted a glitch on a waveform, but by the time you've stopped the scope it's gone? With PicoScope you no longer need to worry about missing glitches or other transient events. PicoScope can store the last ten thousand waveforms in its circular waveform buffer.

The buffer navigator provides an efficient way of navigating and searching through waveforms, effectively letting you turn back time. Tools such as mask limit testing can also be used to scan through each waveform in the buffer looking for mask violations.

Mask limit testing

PicoScope allows you to draw a mask around any signal with user-defined tolerances. This has been designed specifically for production and debugging environments, enabling you to compare signals. Simply capture a known good signal, draw a mask around it, and then attach the system under test. PicoScope will capture any intermittent glitches and can show a failure count and other statistics in the **Measurements** window.

The numerical and graphical mask editors can be used separately or in combination, allowing you to enter accurate mask specifications, modify existing masks, and import and export masks as files.



High-speed data acquisition and digitizing

The supplied drivers and software development kit (SDK) allow you to both write your own software and interface to popular third-party software packages such as National Instruments LabVIEW and MathWorks MATLAB.

The drivers support data streaming, a mode that captures gap-free continuous data over the USB port directly to the PC's RAM or hard disk at rates of up to 1 MS/s (A models) or 9.6 MS/s (B models), so you are not limited by the size of the scope's buffer memory. Sampling rates in streaming mode are subject to PC specifications and application loading.

Beta drivers are also available for use with Raspberry Pi, BeagleBone Black, and similar ARM-powered platforms. These drivers enable you to control your PicoScope using these small, single-board Linux computers.

Math channels

With PicoScope 6 you can perform a variety of mathematical calculations on your input signals and reference waveforms.

Use the built-in list for simple functions such as add and invert, or open the wizard and create complex functions involving trigonometry, exponentials, logarithms, statistics, integrals and derivatives.

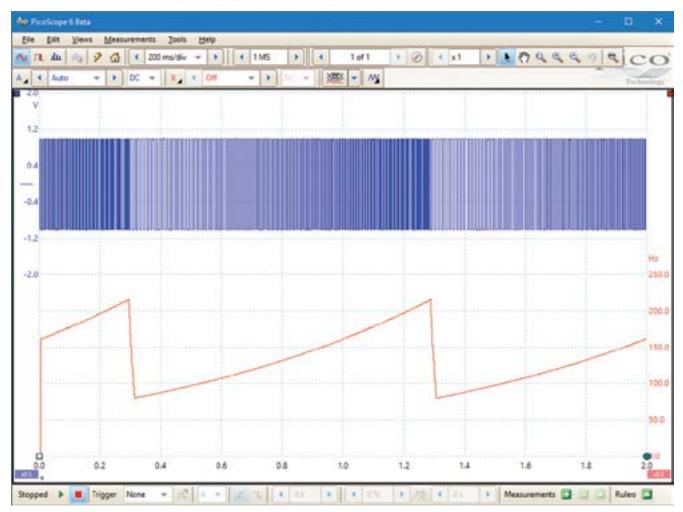
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Plot frequency against time with PicoScope 6

All oscilloscopes can measure the frequency of a waveform, but often you need to know how that frequency changes over time, which is a difficult measurement to make.

The freq math function can do exactly this: in the example on the right, the top waveform's frequency is being modulated by a ramp function, as plotted in the bottom waveform.

There is an additional math function to plot duty cycle in a similar way.



Quick selector

VIEW your waveform with a low-cost USB-powered oscilloscope.

All standard PicoScope features are included: automatic measurements, serial decoding, persistence displays, mask limit testing, spectrum analysis, arbitrary waveform generator and more.

PicoScope

2205A

25 MHz

200 MS/s

16 kS 100 kHz

\$199*/\$225

€169*/€189

£139*/£159

PicoScope 2405Å 25 MHz 500 MS/s 48 kS 1 MHz \$449

> €389 £319

PicoScope

2204A

10 MHz

100 MS/s

8 kS

100 kHz \$115*/\$139

€95*/€119

£79*/£99

*Without probes.

ANALYZE your waveform with a high-performance USB-powered oscilloscope.

Deep memory allows you to capture over long time periods at high sampling rates. You can then zoom in on your data without having to recapture. This is essential when you need to analyze one-off events with detailed timing resolution.

The arbitrary waveform generator can store complex waveforms in its large memory buffer, allowing you to test your design with realistic inputs.

| PicoScope 2206B | PicoScope 2207B | PicoScope 2208B | | |
|--------------------|--------------------|--------------------|--|--|
| 50 MHz | 70 MHz | 100 MHz | | |
| 500 MS/s | 1 GS/s | 1 GS/s | | |
| 32 MS | 64 MS | 128 MS | | |
| 1 MHz | 1 MHz | 1 MHz | | |
| \$349 | \$499 | \$679 | | |
| €299 | €419 | €579 | | |
| £249 | £349 | £479 | | |

| PicoScope 2407B | PicoScope 2408B | | |
|--------------------|--|--|--|
| 70 MHz | 100 MHz | | |
| 1 GS/s | 1 GS/s | | |
| 64 MS | 128 MS | | |
| 1 MHz | 1 MHz | | |
| \$829 | \$1125 | | |
| €699 | €949 | | |
| £579 | £789 | | |
| | 2407B 70 MHz 1 GS/s 64 MS 1 MHz \$829 €699 | | |

| PicoScope 2205A MSO | PicoScope 2206B MSO | PicoScope 2207B MSO | PicoScope 2208B MSO | |
|------------------------|------------------------|------------------------|------------------------|--|
| 25 MHz | 50 MHz | 70 MHz | 100 MHz | |
| 500 MS/s | 1 GS/s | 1 GS/s | 1 GS/s | |
| 48 kS | 32 MS | 64 MS | 128 MS | |
| 1 MHz | 1 MHz | 1 MHz | 1 MHz | |
| \$449 | \$609 | \$769 | \$999 | |
| €389 | €519 | €649 | €849 | |
| £319 | £429 | £539 | £699 | |

2-channel oscilloscopes

| Model |
|-----------------------|
| Bandwidth |
| Maximum sampling rate |
| Buffer memory |
| AWG bandwidth |

Price

4-channel oscilloscopes

| Model |
|-----------------------|
| Bandwidth |
| Maximum sampling rate |
| Buffer memory |
| AWG bandwidth |
| |

Price

Mixed-signal oscilloscopes

2 ANALOG + 16 DIGITAL INPUTS

| Model | |
|-----------|--|
| Bandwidth | |

| Dunuwidun |
|-----------------------|
| Maximum sampling rate |
| Buffer memory |
| AWG bandwidth |
| |

Price

PicoScope 2000 Series

Detailed specifications: 2-channel oscilloscopes

| | PicoScope 2204A | PicoScope 2205A | PicoScope 2206B | PicoScope 2207B | PicoScope 2208B |
|--|--------------------------------------|------------------------------|---|---|--------------------|
| VERTICAL | | | | | |
| Bandwidth (–3 dB) | 10 MHz | 25 MHz | 50 MHz | 70 MHz | 100 MHz |
| Rise time (calculated) | 35 ns | 14 ns | 7 ns | 5 ns | 3.5 ns |
| Software lowpass filter | Not applicable | | Configurable software lowpass filter | | |
| Vertical resolution | 8 t | pits | 8 bits | | |
| Enhanced vertical resolution | Up to | 12 bits | Up to 12 bits | | |
| Input ranges | ±50 mV, ±100 mV, ± ±1 V, ±2 V, ±5 | | ±20 mV, ±50 mV, ±100 mV, ±200 mV, ±500 mV ±1 V, ±2 V, ±5 V, ±10 V, ±20 V | | |
| Input sensitivity | 10 mV/div to 4 V/div | (10 vertical divisions) | | | divisions) |
| Input coupling | AC/ | / DC | | AC / DC | |
| Input connector | Single-ende | ed, BNC(f) | | Single-ended, BNC(f) | |
| Input characteristics | 1 MΩ ± 1% | 14 pF ± 2 pF | 1 | MΩ ± 1% 16 pF ± 1 | рF |
| Analog offset range (vertical position adjustment) | No | one | ±250 mV (20 mV to 200 mV ranges) ±2.5 V (500 mV to 2 V ranges) ±25 V (5 V to 20 V ranges) | | nges) |
| Analog offset control accuracy | Not ap | plicable | ±1% of offset se | etting, additional to bas | sic DC accuracy |
| DC accuracy | ±3% of full se | cale ±200 μV | ± | 3% of full scale ±200 μ | V |
| Overvoltage protection | ±100 V (DC + AC | peak) up to 10 kHz | ±100 V (DC + AC peak) up to 10 kHz | | 10 kHz |
| HORIZONTAL (TIMEBASE) | | | | | |
| Maximum sampling rate1 ch.(real-time)2 ch. | 100 MS/s 50 MS/s | 200 MS/s (Ch. A) 100 MS/s | 500 MS/s 250 MS/s | 1 G 500 | S/s MS/s |
| Equivalent-time sampling rate (ETS) | 2 GS/s | 4 GS/s | 5 GS/s | 10 0 | GS/s |
| Maximum sampling rate (USB streaming) | 1 M | IS/s | 9.6 MS/s (31 MS/s with SDK) | | DK) |
| Shortest timebase | 10 ns/div | 5 ns/div | 2 ns/div 1 ns/div | | /div |
| Longest timebase | 5000 | s/div | | 5000 s/div | |
| Buffer memory (block mode, shared between active channels) | 8 kS | 16 kS | 32 MS | 64 MS | 128 MS |
| Buffer memory (USB streaming mode, PicoScope software) | 100 MS (shared betw | veen active channels) | 100 MS (shared between active channels) | | channels) |
| Buffer memory (USB streaming mode, SDK) | Up to availabl | e PC memory | Up to available PC memory | | |
| Waveform buffers (PicoScope software) | 100 | 000 | | 10 000 | |
| Maximum waveforms per second | 20 | 00 | | 80 000 | |
| Initial timebase accuracy | ±100 | ppm | | ±50 ppm | |
| Timebase drift | ±5 ppr | m/year | | ±5 ppm/year | |
| Sample jitter | 30 ps RM | 1S typical | 20 ps RMS typical | 3 ps RM | S typical |
| ADC sampling | | oling on all enabled | Simultaneous sampling on all enabled channels | | led channels |
| DYNAMIC PERFORMANCE (typical) | | | | | |
| Crosstalk (full bandwidth, equal ranges) | Better th | an 200:1 | | Better than 300:1 | |
| | < -50 dB at 100 kHz, | full-scale input, typical | < –50 dB at 100 kHz, full-scale input, typical | | |
| SFDR (100 kHz, full-scale input, typical) | > 52 | | Ē | 20 mV range: > 44 dF V range and higher: > | 3 |
| Noise | < 150 ہ (±50 m) | | < 220 µV RMS (±20 mV range) | < 300 µ (±20 m) | ıV RMS √ range) |
| Bandwidth flatness | (+0.3 dB, -3 dB) from | n DC to full bandwidth | (+0.3 dB, - | -3 dB) from DC to full | bandwidth |

Detailed specifications: 2-channel oscilloscopes (continued)

| | PicoScope 2204A | PicoScope 2205A | PicoScope 2206B | PicoScope 2207B | PicoScope 2208B | |
|---|---|------------------------------------|---|---|----------------------|--|
| TRIGGERING | | | | | | |
| Sources | Ch A, | , Ch B | | Ch A, Ch B | | |
| Trigger modes | None, auto, | repeat, single | None, auto, repo | eat, single, rapid (segm | ented memory) | |
| Advanced triggers | Edge, window, pulse width, window pulse width, dropout, window dropout, interval, logic | | | | | |
| Trigger types, ETS | Rising or f | Rising or falling edge | | Rising or falling edge (available on Ch A only) | | |
| Segmented memory buffers (SDK) | N | /A | 128 000 | 256000 | 500 000 | |
| Segmented memory buffers (PicoScope software) | N/A | | 10 000 | | | |
| Trigger sensitivity, real-time | | ides 1 LSB accuracy up andwidth | Digital triggering provides 1 LSB accuracy up to full bandwid | | up to full bandwidth | |
| Trigger sensitivity, ETS | 10 mV p-p, typica | l, at full bandwidth | 10 mV p-p, typical, at full bandwidth | | dwidth | |
| Maximum pre-trigger capture | 100% of c | apture size | oture size 100% of capture size | | | |
| Maximum post-trigger delay | 4 billion | samples | 4 billion samples | | | |
| Trigger rearm time | PC-dep | pendent | <pre>< 2 µs at 500 MS/s sampling rate</pre> < 1 µs at 1 GS/s sampli | | s sampling rate | |
| Maximum trigger rate | PC-dep | pendent | 10000 waveforms in a 12 ms burst, at 500 MS/s sampling rate, typical | 10 000 waveforms 1 GS/s samplir | | |

Detailed specifications: 4-channel oscilloscopes

| | PicoScope 2405A | PicoScope 2406B | and the second | |
|--|---|--|---|---------------|
| VERTICAL | | | | |
| Bandwidth (–3 dB) | 25 MHz | 50 MHz | 70 MHz | 100 MHz |
| Rise time (calculated) | 14 ns | 7 ns | 5 ns | 3.5 ns |
| Software lowpass filter | Not applicable | Co | nfigurable lowpass filte | r |
| Vertical resolution | 8 bits | | 8 bits | |
| Enhanced vertical resolution | Up to 12 bits | | Up to 12 bits | |
| Input ranges | ±20 mV, ±50 mV, ±100 mV, ±200 mV, ±500 mV, ±1 V, ±2 V, ±5 V, ±10 V, ±20 V | ±20 mV, ±50 mV, ±100 mV, ±200 mV, ±500 m ±1 V, ±2 V, ±5 V, ±10 V, ±20 V | | |
| Input sensitivity | 4 mV/div to 4 V/div (10 vertical divisions) | 4 mV/div t | to 4 V/div (10 vertical | divisions) |
| Input coupling | AC / DC | | AC / DC | |
| Input characteristics | 1 MΩ ± 1% 16 pF ± 1 pF | 11 | 1 Ω ± 1% 16 pF ± 1 p | F |
| Input connector | Single-ended, BNC(f) | | Single-ended, BNC(f) | |
| Analog offset range (vertical position adjustment) | ±250 mV (20 mV to 200 mV ranges) ±2.5 V (500 mV to 2 V ranges) ±25 V (5 V to 20 V ranges) | ±2.5 | V (20 mV to 200 mV r V (500 mV to 2 V rang 5 V (5 V to 20 V range | ges) |
| Analog offset control accuracy | ±1% of offset setting, additional to basic DC accuracy | ±1% of offset se | tting, additional to basi | c DC accuracy |
| DC accuracy | $\pm 3\%$ of full scale $\pm 200~\mu V$ | ±3 | 8% of full scale ±200 μ\ | / |
| Overvoltage protection | ±100 V (DC + AC peak) up to 10 kHz | ±100 V (| DC + AC peak) up to | 10 kHz |
| HORIZONTAL (TIMEBASE) | | | | |
| Maximum sampling rate 1 ch. (real-time) 2 ch. 3 or 4 ch. | 500 MS/s 250 MS/s 125 MS/s | 1 GS/s 500 MS/s 250 MS/s | | |
| Equivalent-time sampling rate (ETS) | 5 GS/s | 10 GS/s | | |
| Maximum sampling rate (USB streaming) | 1 MS/s (5 MS/s with SDK) | 9.6 MS/s (31 MS/s with SDK) | | |
| Shortest timebase | 2 ns/div | 2 ns/div | 1 ns | /div |
| Longest timebase | 5000 s/div | , | 5000 s/div | , |
| Buffer memory (block mode, shared between active channels) | 48 kS | 32 MS | 64 MS | 128 MS |
| Buffer memory (USB streaming mode, PicoScope software) | 100 MS (shared between active channels) | 100 MS (s | hared between active c | hannels) |
| Buffer memory (USB streaming mode, SDK) | Up to available PC memory | Up | to available PC memor | γ |
| Waveform buffers (PicoScope software) | 10 000 | | 10 000 | |
| Maximum waveforms per second | 2000 | | 80 000 | |
| Initial timebase accuracy | ±50 ppm | | ±50 ppm | |
| Timebase drift | ±5 ppm/year | | ±5 ppm/year | |
| Sample jitter | 20 ps RMS, typical | | 3 ps RMS, typical | |
| ADC sampling | Simultaneous sampling on all enabled channels | Simultaneou | s sampling on all enable | ed channels |
| DYNAMIC PERFORMANCE (typical) | | | | |
| Crosstalk (full bandwidth, equal ranges) | Better than 300:1 | | Better than 300:1 | |
| Harmonic distortion | < –50 dB at 100 kHz, full-scale input, typical | < -50 dB at | : 100 kHz, full-scale inp | out, typical |
| SFDR (100 kHz, full-scale input, typical) | ±20 mV range: > 44 dB ±50 mV range and higher: > 52 dB | | 20 mV range: > 44 dB V range and higher: > 5 | |
| Noise (±20 mV range) | <150 µV RMS | < 220 µV RMS | | JV RMS |
| Bandwidth flatness | (+0.3 dB, –3 dB) from DC to full bandwidth, typical | | 3) from DC to full banc | |

Detailed specifications: 4-channel oscilloscopes (continued)

| | PicoScope 2405A | PicoScope 2406B | PicoScope 2407B | PicoScope 2408B |
|---|---|--|------------------------|------------------------|
| TRIGGERING | | | | |
| Sources | Ch A, Ch B, Ch C, Ch D | | Ch A, Ch B, Ch C, Ch D | |
| Trigger modes | None, auto, repeat, single, rapid (segmented memory) | None, auto, repeat, single, rapid (segmented memory) | | ented memory) |
| Advanced triggers | Edge, window, pulse width, window pulse width, dropout, window dropout, interval, runt pulse, logic | Edge, window, pulse width, window pulse width, dropout, wind dropout, interval, runt pulse, logic | | |
| Trigger types, ETS | Rising or falling edge (available on Ch A only) | Rising or falling edge (available on Ch A only) | | Ch A only) |
| Segmented memory buffers (SDK) | 96 | 128 000 256 000 500 000 | | 500 000 |
| Segmented memory buffers (PicoScope software) | 96 | 10 000 | | |
| Trigger sensitivity, real-time | Digital triggering provides 1 LSB accuracy up to full bandwidth | Digital triggering provides 1 LSB accuracy up to full bandwidt | | p to full bandwidth |
| Trigger sensitivity, ETS | 10 mV p-p, typical, at full bandwidth | 10 mV p-p, typical, at full bandwidth | | lwidth |
| Maximum pre-trigger capture | 100% of capture size | 100% of capture size | | |
| Maximum post-trigger delay | 4 billion samples | 4 billion samples | | |
| Trigger rearm time | 2 µs at 500 MS/s sampling rate | < 1 µs at 1 GS/s sampling rate | | ate |
| Maximum trigger rate | 96 waveforms in a 192 µs burst, at 500 MS/s sampling rate, typical | 10 000 waveforms in a 6 ms burst, at 1 GS/s sampling rate, typi | | sampling rate, typical |

Detailed specifications: mixed-signal oscilloscopes

| | PicoScope 2205A MSO | PicoScope 2206B MSO | PicoScope 2207B MSO | PicoScope 2208B MSC |
|---|---|---|---------------------------------|------------------------|
| VERTICAL (ANALOG INPUTS) | | | | |
| Input channels | 2 | | 2 | |
| Bandwidth (–3 dB) | 25 MHz | 50 MHz | 70 MHz | 100 MHz |
| Rise time (calculated) | 14 ns | 7 ns | 5 ns | 3.5 ns |
| Software lowpass filter | Not applicable | Confi | gurable software lowpass | filter |
| Vertical resolution | 8 bits | | 8 bits | |
| Enhanced vertical resolution | Up to 12 bits | | Up to 12 bits | |
| Input ranges | ±20 mV, ±50 mV, ±100 mV, ±200 mV, ±500 mV, ±1 V, ±2 V, ±5 V, ±10 V, ±20 V | ±20 mV, ±50 mV, ±100 mV, ±200 mV, ±500 mV, ±1 V, ±2 V, ±5 V, ±10 V, ±20 V | | |
| Input sensitivity | 4 mV/div to 4 V/div (10 vertical divisions) | 4 mV/div | v to 4 V/div (10 vertical | divisions) |
| Input coupling | AC / DC | | AC / DC | |
| Input connector | Single-ended, BNC(f) | | Single-ended, BNC(f) | |
| Input characteristics | 1 MΩ ± 1% 16 pF ± 1 pF | 1 | MΩ ± 1% 16 pF ± 1 p | F |
| Analog offset range (vertical position adjustment) | ±250 mV (20 mV to 200 mV ranges) ±2.5 V (500 mV to 2 V ranges) ±25 V (5 V to 20 V ranges) | ±250 mV (20 mV to 200 mV ranges) ±2.5 V (500 mV to 2 V ranges) ±25 V (5 V to 20 V ranges) | | |
| Analog offset control accuracy | ±1% of offset setting, additional to basic DC accuracy | ±1% of offset setting, additional to basic DC accuracy | | |
| DC accuracy | $\pm 3\%$ of full scale $\pm 200 \ \mu V$ | $\pm 3\%$ of full scale $\pm 200 \ \mu V$ | | / |
| Overvoltage protection | ±100 V (DC + AC peak) up to 10 kHz | ±100 V (DC + AC peak) up to 10 kHz | | |
| VERTICAL (DIGITAL INPUTS) | | | | |
| Input channels | 16 (two 8-bit ports) | | 16 (two 8-bit ports) | |
| Input connector | 2.54 mm pitch, 10×2 way connector | 2.54 m | nm pitch, 10 x 2 way con | nector |
| Maximum input frequency | 100 MHz (200 Mb/s) | | 100 MHz (200 Mb/s) | |
| Minimum detectable pulse width | 5 ns | | 5 ns | |
| Input impedance | 200 kΩ ±2% 8 pF ±2 pF | 2 | 200 kΩ ±2% 8 pF ±2 pl | F |
| Input dynamic range | ±20 V | | ±20 V | |
| Threshold range | ±5 V | | ±5 V | |
| Threshold grouping | Two independent threshold controls. Port 0: D0 to D7, Port 1: D8 to D15 | Two independent threshold controls. Port 0: D0 to D7, Port 1: D8 to D15 | | |
| Threshold selection | TTL, CMOS, ECL, PECL, user-defined | TTL, CMOS, ECL, PECL, user-defined | | lefined |
| Port threshold accuracy | ±350 mV (inclusive of hysteresis) | ±35 | 0 mV (inclusive of hyster | esis) |
| Hysteresis | < ±250 mV | | < ±250 mV | |
| Minimum input voltage swing | 500 mV pk-pk | | 500 mV pk-pk | |
| Channel-to-channel skew | 2 ns, typical | | 2 ns, typical | |
| Minimum input slew rate | 10 V/µs | 10 V/µs | | |
| rinninum input siew rate | / 1 | ±50 V | | |

Detailed specifications: mixed-signal oscilloscopes (continued)

| | PicoScope 2205A MSO | PicoScope 2206B MSO | PicoScope 2207B MSO | PicoScope 2208B MSO |
|---|---|--|-------------------------|------------------------|
| HORIZONTAL (TIMEBASE) | | | | |
| Maximum sampling rate 1 analog ch. (real-time) 1 digital port 2 analog ch., 2 digital ports or 1 of each Other | 500 MS/s 500 MS/s 250 MS/s 250 MS/s | 1 GS/s 500 MS/s 500 MS/s 250 MS/s | | |
| Equivalent-time sampling rate (ETS) | 5 GS/s | | 10 GS/s | |
| Maximum sampling rate (USB streaming) | 1 MS/s (5 MS/s with SDK) | 9.6 | MS/s (31 MS/s with SE |)К) |
| Shortest timebase | 2 ns/div | 2 ns/div | 1 ns | /div |
| Longest timebase | 5000 s/div | | 5000 s/div | |
| Buffer memory (block mode, shared between active channels) | 48 kS | 32 MS 64 MS 12 | | 128 MS |
| Buffer memory (USB streaming mode, PicoScope software) | 100 MS (shared between active channels) | 100 MS (shared between active channels) | | hannels) |
| Buffer memory (USB streaming mode, SDK) | Up to available PC memory | U | o to available PC memor | ту — |
| Waveform buffers (PicoScope software) | 10 000 | | 10 000 | |
| Maximum waveforms per second | 2000 | | 80000 | |
| Initial timebase accuracy | ±50 ppm | | ±50 ppm | |
| Timebase drift | ±5 ppm/year | | ±5 ppm/year | |
| Sample jitter | 20 ps RMS, typical | | 3 ps RMS, typical | |
| ADC sampling | Simultaneous sampling on all enabled channels | Simultaneous sampling on all enabled channels | | ed channels |
| DYNAMIC PERFORMANCE (typical) | | | | |
| Crosstalk (full bandwidth, equal ranges) | Better than 300:1 | Better than 300:1 | | |
| Harmonic distortion | < –50 dB at 100 kHz, full-scale input, typical | < –50 dB at 100 kHz, full-scale input, typical | | ut, typical |
| SFDR (100 kHz, full-scale input, typical) | ±20 mV range: > 44 dB ±50 mV range and higher: > 52 dB | ±20 mV range: > 44 dB ±50 mV range and higher: > 52 dB | | 52 dB |
| Noise (±20 mV range) | < 150 µV RMS | < 220 µV RMS < 300 µV RMS | | IV RMS |
| Bandwidth flatness | (+0.3 dB, -3 dB) from DC to full bandwidth, typical | (+0.3 dB, -3 dB) from DC to full bandwidth, typical | | lwidth, typical |
| TRIGGERING | | | | |
| Sources | Ch A, Ch B, Digital 0–15 | Ch A, Ch B, Digital 0–15 | | |
| Trigger modes | None, auto, repeat, single, rapid (segmented memory) | None, auto, repeat, single, rapid (segmented memory) | | ented memory) |
| Advanced triggers (analog inputs) | Edge, window, pulse width, window pulse width, dropout, window dropout, interval, runt pulse, logic | Edge, window, pulse width, window pulse width, dropout, wi dropout, interval, runt pulse, logic | | |
| Advanced triggers (digital inputs) | Edge, pulse width, dropout, interval, logic, pattern, mixed signal | Edge, pulse width, dropout, interval, logic, pattern, mixed sig | | attern, mixed signa |
| Trigger types, ETS | Rising or falling edge (available on Ch A only) | Rising or falling edge (available on Ch A only) | | Ch A only) |
| Segmented memory buffers (SDK) | 96 | 128 000 | 256000 | 500 000 |
| Segmented memory buffers (PicoScope software) | 96 | | 10 000 | |
| Trigger sensitivity, real-time (analog channels) | Digital triggering provides 1 LSB accuracy up to full bandwidth | Digital triggering pr | ovides 1 LSB accuracy u | p to full bandwidth |
| Trigger sensitivity, ETS (analog channels) | 10 mV p-p, typical, at full bandwidth | 10 mV p-p, typical, at full bandwidth | | lwidth |
| Maximum pre-trigger capture | 100% of capture size | | 100% of capture size | |
| Maximum post-trigger delay | 4 billion samples | | 4 billion samples | |
| Trigger rearm time | < 2 µs at 500 MS/s sampling rate | < 1 | μs at 1 GS/s sampling r | ate |
| Maximum trigger rate | 96 waveforms in a 192 μs burst, at 500 MS/s sampling rate, typical | 10 000 waveforms in a 6 ms burst, at 1 GS/s sampling rate, ty | | sampling rate, typi |

Signal generator specifications: all models

| | PicoScope 2204A PicoScope 2205A | PicoScope 2405A PicoScope 2205A MSO | All B models |
|------------------------------|--|--|---------------------------------|
| FUNCTION GENERATOR | | | |
| Standard output signals | Sine, square, triangle, DC voltage, ramp, sinc, Gaussian, half-sine | Sine, square, triangle, DC voltage, | ramp, sinc, Gaussian, half-sine |
| Pseudorandom output signals | None | White noise, PRBS | |
| Standard signal frequency | DC to 100 kHz | DC to 1 MHz | |
| Sweep modes | Up, down, dual with selectable start/ stop frequencies and increments | Up, down, dual with selectable start/stop frequencies and incr | |
| Triggering | None | Free-run or up to 1 billion waveform cycles or frequency sw Triggered from scope trigger or manually. | |
| Output frequency accuracy | Oscilloscope timebase accuracy ± output frequency resolution | Oscilloscope timebase accuracy ± output frequency resoluti | |
| Output frequency resolution | < 0.02 Hz | < 0.01 Hz | |
| Output voltage range | ±2 V | ±2 V | |
| Output adjustments | Any amplitude and offset within ±2 V range | V Any amplitude and offset within ±2 V range | |
| Amplitude flatness (typical) | < 1 dB to 100 kHz | < 0.5 dB to 1 MHz | |
| DC accuracy | ±1% of full scale | ±1% of ful | scale |
| SFDR (typical) | > 55 dB at 1 kHz full-scale sine wave | > 60 dB at 10 kHz fu | Il-scale sine wave |
| Output characteristics | Front panel BNC, 600 Ω output impedance | Front panel BNC, 600 Ω |) output impedance |
| Overvoltage protection | ±20 V | ±20 \ | / |

| Update rate | 1.548 MHz | 48 MHz 20 MHz | |
|------------------------|-----------------------|---------------|-------|
| Buffer size | Buffer size 4 kS 8 kS | | 32 kS |
| Resolution | 12 bits | 12 bits | |
| Bandwidth | > 100 kHz | > 1 MHz | |
| Rise time (10% to 90%) | < 2 µs | < 120 ns | |

Common specifications

| SPECTRUM ANALYZER | | | |
|------------------------|--|--|--|
| Frequency range | DC to analog bandwidth of oscilloscope | | |
| Display modes | Magnitude, average, peak hold | | |
| Windowing functions | Rectangular, Gaussian, triangular, Blackman, Blackman-Harris, Hamming, Hann, flat-top | | |
| Number of FFT points | Selectable from 128 to half available buffer memory in powers of 2, up to a maximum of 1 048 576 point | | |
| MATH CHANNELS | | | |
| Functions | -x, x+y, x-y, x*y, x/y, x^y, sqrt, exp, In, log, abs, norm, sign, sin, cos, tan, arcsin, arccos, arctan, sinh, cosh, tanh, freq, derivative, integral, min, max, average, peak, delay, duty, highpass, lowpass, bandpass, bandstop | | |
| Operands | A, B (input channels), C, D (input channels, 4-channel models only), T (time), reference waveforms, constants, pi, digital channels (MSO models only) | | |
| AUTOMATIC MEASUREMENTS | | | |
| Scope mode | AC RMS, true RMS, frequency, cycle time, duty cycle, DC average, falling rate, rising rate, low pulse width, high pulse width, fall time, rise time, minimum, maximum, peak to peak | | |
| Spectrum mode | Frequency at peak, amplitude at peak, THD dB, SNR, SINAD, SFDR, total power, average amplitude at peak, THD %, THD+N, IMD, | | |
| Statistics | Minimum, maximum, average and standard deviation | | |
| SERIAL DECODING | | | |
| Protocols | 1-Wire, ARINC 429, CAN, DCC, DMX512, FlexRay, Ethernet 10Base-T, USB 1.1, I ² C, I ² S, LIN, PS/2, SP SENT, UART/RS-232 (subject to bandwidth and sampling rate of chosen oscilloscope model) | | |
| MASK LIMIT TESTING | | | |
| C4-4i-4i | Pass/fail, failure count, total count | | |
| Statistics | | | |
| DISPLAY | | | |
| | | | |

Common specifications (continued)

| GENERAL | | |
|---|--|--|
| PC connectivity | USB 2.0 (USB 3.0 compatible). USB cable included. | |
| Power requirements | Powered from USB port | |
| Dimensions (including connectors and feet) | 142 x 92 x 18.8 mm (PicoScope 2204A and 2205A only) 130 x 104 x 18.8 mm (all other models, including PicoScope 2205A MSO) | |
| Weight | < 0.2 kg (7 oz) | |
| Temperature range, operating | 0 °C to 50 °C | |
| Temperature range, operating, for stated accuracy | 15 °C to 30 °C | |
| Temperature range, storage | –20 °C to +60 °C | |
| Humidity range, operating | 5% to 80% RH non-condensing | |
| Humidity range, storage | 5% to 95% RH non-condensing | |
| Altitude range | up to 2000 m | |
| Pollution degree | 2 | |
| Safety approvals | Designed to EN 61010-1:2010 | |
| Environmental approvals | RoHS, WEEE | |
| EMC approvals | Tested to meet EN61326-1:2013 and FCC Part 15 Subpart B | |
| Software included | PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit SDK for Windows 7, 8 and 10; 32-bit and 64-bit Example programs (C, Microsoft Excel VBA, LabVIEW) | |
| Free software available for download | PicoScope 6 (beta) for Linux and OS X SDK (beta) for Linux and OS X | |
| Languages supported | Simplified Chinese, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish | |

Your PicoScope 2000 Series oscilloscope comes with the following items:

- USB 2.0 (USB 3.0/3.1 compatible) cable
- Two or four x1/x10 passive probes (except kits specified as without probes; 150 MHz TA132 probes illustrated below)
- Digital input cable (MSO models only)
- 20 logic test clips (MSO models only)
- Quick Start Guide
- Software and reference CD



Ordering information

| Oscilloscopes ORDER CODE | DESCRIPTION | USD* | EUR* | GBP* |
|-----------------------------|--|------|------|------|
| PP917 | PicoScope 2204A 10 MHz 2-channel oscilloscope without probes | 115 | 95 | 79 |
| PP906 | PicoScope 2204A 10 MHz 2-channel oscilloscope | 139 | 119 | 99 |
| PP966 | PicoScope 2205A 25 MHz 2-channel oscilloscope without probes | 199 | 169 | 139 |
| PP907 | PicoScope 2205A 25 MHz 2-channel oscilloscope | 225 | 189 | 159 |
| PQ012 | PicoScope 2206B 50 MHz 2-channel oscilloscope | 349 | 299 | 249 |
| PQ013 | PicoScope 2207B 70 MHz 2-channel oscilloscope | 499 | 419 | 349 |
| PQ014 | PicoScope 2208B 100 MHz 2-channel oscilloscope | 679 | 579 | 479 |
| PQ015 | PicoScope 2405A 25 MHz 4-channel oscilloscope | 449 | 389 | 319 |
| PQ016 | PicoScope 2406B 50 MHz 4-channel oscilloscope | 599 | 509 | 419 |
| PQ017 | PicoScope 2407B 70 MHz 4-channel oscilloscope | 829 | 699 | 579 |
| PQ018 | PicoScope 2408B 100 MHz 4-channel oscilloscope | 1125 | 949 | 789 |
| PQ008 | PicoScope 2205A MSO 25 MHz 2+16 channel mixed-signal oscilloscope | 449 | 389 | 319 |
| PQ009 | PicoScope 2206B MSO 50 MHz 2+16 channel mixed-signal oscilloscope | 609 | 519 | 429 |
| PQ010 | PicoScope 2207B MSO 70 MHz 2+16 channel mixed-signal oscilloscope | 769 | 649 | 539 |
| PQ011 | PicoScope 2208B MSO 100 MHz 2+16 channel mixed-signal oscilloscope | 999 | 849 | 699 |

Replacement accessories

| ORDER CODE | DESCRIPTION | USD* | EUR* | GBP* |
|------------|--|------|------|------|
| MI007 | 60 MHz passive probe (supplied in oscilloscope kits with up to 50 MHz bandwidth) | 25 | 21 | 18 |
| TA132 | 150 MHz passive probe (supplied with 70 MHz and 100 MHz oscilloscopes) | 33 | 28 | 23 |
| TA136 | 20-way 25 cm digital cable (suitable for MSOs only) | 17 | 14 | 12 |
| TA139 | Pack of 10 logic test clips (suitable for MSOs only) | 30 | 26 | 21 |

*Prices are correct at the time of publication. Sales taxes not included. Please contact Pico Technology for the latest prices before ordering.

More oscilloscopes in the PicoScope range...

| PicoSco pe | | |
|-------------------|--|--|
| 3000 Series | | |
| General purpose | | |
| 2- and 4-channel | | |
| | | |



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PicoScope 4000 Series High precision 12 to 16 bits



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Some illustrations in this data sheet show beta software. The software supplied with the product meets the stated specifications but may differ slightly in its graphical appearance.

Flexible resolution 8 to 16 bits

PicoScope

5000 Series



PicoScope 6000 Series High performance Up to 1 GHz



PicoScope 9000 Series Sampling scopes and TDR to 20 GHz





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