



PicoScope[®] 3000 Series

USB OSCILLOSCOPES AND MIXED-SIGNAL OSCILLOSCOPES

Deep memory, high performance

2 ANALOG CHANNELS • SERIAL DECODING • MATH CHANNELS



HUGE 128 MS buffer size 200 MHz analog bandwidth 100 MHz digital channels 500 MS/s real-time sampling 10 GS/s repetitive sampling Advanced digital triggers 200 MHz spectrum analyzer Built-in function generator/AWG USB-connected and powered



2 CHANNELS + 16 CHANNEL MSO

Supplied with a full SDK including example programs • Software compatible with Windows XP, Windows Vista, Windows 7 and Windows 8 • Free technical support

ANALOG, DIGITAL, OR BOTH? WE'VE GOT IT COVERED www.picotech.com

PicoScope: power, portability and versatility

Pico Technology continues to push the limits of USB-powered oscilloscopes. The PicoScope 3000 A/B Series offers the highest performance available from any USB-powered oscilloscope on the market today.



Pico USB-powered oscilloscopes are small, light and portable. They easily slip into a laptop bag making them ideal for the engineer on the move. There is no need for an external power supply, making them ideal for field use in many applications, such as design, research, test, education, service and repair.

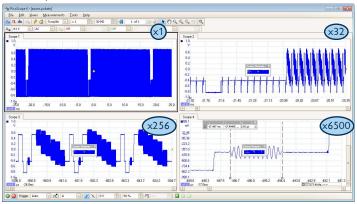
High bandwidth, high sampling rate

Most USB-powered oscilloscopes have real-time sampling rates of only 100 or 200 MS/s, but the PicoScope 3000 Series offers 500 MS/s. ETS mode boosts the maximum effective sampling rate further to 10 GS/s, allowing more detailed display of repetitive signals.

Huge buffer memory

The PicoScope 3000 Series offers memory depths up to 128 million samples, more than any other oscilloscope in this price range.

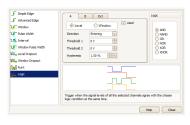
Other oscilloscopes have high maximum sampling rates, but without deep memory they cannot sustain these rates on long timebases. The PicoScope 3206B can sample at 500 MS/s at timebases all the way down to 20 ms/div.



Managing all this data calls for some powerful tools, so PicoScope has a maximum zoom factor of 100 million combined with a choice of two zoom methods. There's a conventional set of zoom buttons, plus an overview window that shows you the whole waveform while you zoom and reposition the display by simply dragging with the mouse.

Each captured waveform is stored in the segmented buffer so you can rewind and review thousands of previous waveforms. No longer will you see a glitch on the screen only for it to vanish before you stop the scope. A mask can be applied to hide waveforms that are not of interest.

Advanced triggers



As well as the standard range of triggers found on all oscilloscopes, the PicoScope 3000 Series offers a class-leading set of advanced triggers including pulse width, windowed and dropout triggers to help you capture the data you need.

Digital triggering

Most digital oscilloscopes sold today 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.

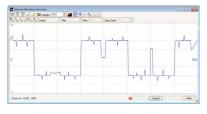
In 1991 we pioneered the use of fully digital triggering using the actual digitized data. This technique reduces trigger errors and allows our oscilloscopes to trigger on the smallest signals, even at the full bandwidth. Trigger levels and hysteresis can be set with high precision and resolution.

Digital triggering also reduces re-arm delay and this, combined with the segmented memory, allows the triggering and capture of events that happen in rapid sequence. At the fastest timebase you can use rapid triggering to collect 10,000 waveforms in under 20 milliseconds. Our mask limit testing function can then scan through these waveforms to highlight any failed waveforms for viewing in the waveform buffer.

Custom probe settings

The custom probes feature allows you to correct for gain, attenuation, offsets and nonlinearities in special probes, or to convert to different units of measurement (such as current, power or temperature). You can save definitions to disk for later use.

Arbitrary waveform and function generator

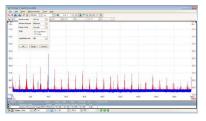


All units have a built-in function generator (sine, square, triangle, DC level). As well as basic controls to set level, offset and frequency, more advanced controls allow you to sweep over a range of frequencies.

Combined with the spectrum peak hold option this makes a powerful tool for testing amplifier and filter responses.

The PicoScope 3000 Series B and MSO models include additional built-in waveforms as well as a full arbitrary waveform generator. Waveforms can be created or edited using the built-in AWG editor, imported from oscilloscope traces, or loaded from a spreadsheet.

Spectrum analyzer



With the click of a button, you can display a spectrum plot of the selected channels. The spectrum analyzer allows signals up to 200 MHz to be viewed in the frequency domain. A full range of settings

gives you control over the number of spectrum bands, window types and display modes: instantaneous, average, or peak-hold.

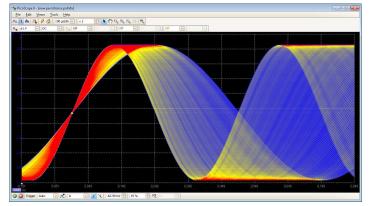
You can display multiple spectrum views with different channel selections and zoom factors, and see these alongside time-domain waveforms of the same data. A comprehensive set of automatic frequency-domain measurements, including THD, THD+N, SNR, SINAD and intermodulation distortion, can be added to the display.

Our commitment

To protect your investment, the API, the PicoScope software, and the firmware inside the unit can be updated. We have a long history of providing new features for free via our software downloads.

Users of our products reward us by becoming lifelong customers, frequently recommending us to their colleagues.

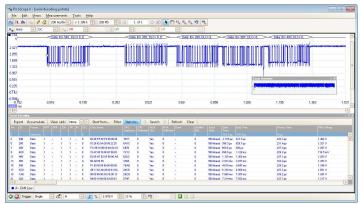
Persistence display modes



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 and digital color, or create a custom display mode.

The design of the PicoScope software ensures that maximum display area is available for waveform viewing. Even with a laptop you have a much bigger viewing area and higher resolution than a typical benchtop scope.

Serial decoding



The PicoScope 3000 Series, with its deep memory, is ideal for serial decoding as it can capture thousands of frames of uninterrupted data.

Protocols currently included are I²C, SPI, RS232/UART, CAN bus, LIN and FlexRay. Expect this list to grow with free software updates.

PicoScope displays the decoded data in the format of your choice: in-view, in-window, or both at once. The in-view 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 look for noise or distortion on the waveform.

In-window 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 that the program will wait for before listing the data.

You can also create a spreadsheet to fully decode the hex data into plain text.

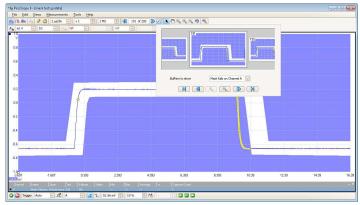
High-speed data acquisition/digitizer

The drivers and software development kit supplied allow you to write your own software or interface to popular third-party software packages such as LabView.

If the 128 MS record length isn't enough, the driver supports data streaming, a mode that captures gap-free continuous data through the USB port directly to the PC's RAM or hard disk at a rate of >10 MS/s (Maximum speed is PC-dependent).

Mask limit testing

This feature is specially designed for production and debugging environments. Capture a signal from a known working system, and PicoScope will draw a mask around it with your specified tolerance. Connect the system under test, and PicoScope will highlight any parts of the waveform that fall outside the mask area. The highlighted details persist on the display, allowing the scope to catch intermittent glitches while you work on something else. The measurements window counts the number of failures, and can display other measurements and statistics at the same time.



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

High-end features as standard

Buying a scope from some companies is a bit like buying a car. By the time you have added all the optional extras you need, the price has gone up considerably. With the PicoScope 3000 Series, high-end features such as mask limit testing, serial decoding, advanced triggering, measurements, math, XY, digital filtering and segmented memory are all included in the price.

To protect your investment, both the PC software and firmware inside the unit can be updated. We have a long history of providing new features for free as software downloads. Other companies make vague promises about future enhancements but we deliver on our promises year after year. Users of our products reward us by becoming lifelong customers, frequently recommending us to their colleagues.

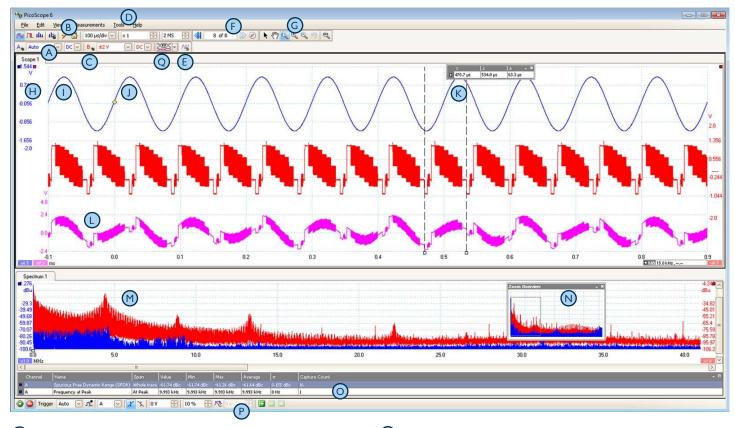
High signal integrity

Most oscilloscopes are built down to a price; ours are built up to a specification.



Careful front-end design and shielding reduces noise, crosstalk and harmonic distortion. Years of oscilloscope experience leads to improved pulse response and bandwidth flatness.

We are proud of the dynamic performance of our products and publish these specifications in detail. The result is simple: when you probe a circuit, you can trust in the waveform you see on the screen.



- Commonly-used controls such as voltage range selection, timebase, memory depth and channel selection are placed on the toolbars for quick access, leaving the main display area clear for waveforms.
- B Auto setup button: Configures the timebase, voltage ranges and trigger for a stable display of your signals.

 \bigcirc 8.0 bits Select the max pumber of bits 95 \bigcirc Custom Probes.. Σ Maths Channel N. Reference Waveform Serial Decodin . <u>A</u>larms Æ Masks Preferences..

Import

veepType

Increment Time Interval 1 ms

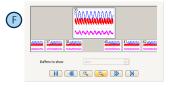
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Channel Options give access to channel-specific settings such as custom probes, resolution enhancement, offset controls and filtering.

More advanced controls and functions are located in the Tools menu.

Function Generator: allows the scope to generate standard signals or arbitrary waveforms. Includes frequency sweep options.



Half Sine 🖂

Arbitran

10 kHz

1 MHz

Waveform Buffer Overview: PicoScope automatically records up to 10,000 of the most recent waveforms. You can quickly scan through to look for intermittent events. The buffer

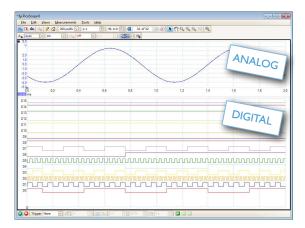
overview can be used with the mask test tools to display only failed waveforms.

G Zoom and pan tools: PicoScope enables a zoom factor of up 100 million, which is necessary when working with the deep memory of the 3000 Series scopes. Use the conventional zoom-in, zoom-out and pan tools, or try the zoom overview window for fast navigation.

- H 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 a command to rearrange all the axes automatically.
- The PicoScope display can be as simple or as complex 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.
 - PicoScope is carefully designed to make the best use of the display area. You can add new scope and spectrum views, all of which are fully adjustable in size.
- Trigger marker: Shows the level and time of the trigger event. Drag with the mouse to adjust.
- Rulers: Each axis has two rulers that can be dragged onto the screen to make quick measurements of amplitude, time and frequency.
- Math channels: Combine input channels and saved reference waveforms using simple arithmetic, or use custom equations with trigonometric and other functions.
- Spectrum views: One or more spectrum views can be added to show an FFT of the data in the scope view. Alternatively, PicoScope can be configured as a dedicated spectrum analyzer.
- N Zoom overview: When a scope or spectrum view is zoomed in, the overview window allows fast navigation. As well as providing an overview, this allows the zoom level and position to be changed using the mouse.
- Automatic measurements. You can add as many measurements as you need on each view. Each measurement includes statistical parameters showing its variability.
- P Trigger toolbar: Commonly-used controls are on the toolbar with more advanced trigger options available from a pop-up window.
- Digital channels (MSOs only): Drag-and-drop to add the channels you want to see. These channels can be arranged into any order, grouped, renamed, and even temporarily disabled if required.

Mixed-signal capability

The PicoScope 3000 Series MSOs from Pico Technology are 2+16 channel, 8-bit resolution oscilloscopes. This means that along with 2 analog channels, the PicoScope 3000 Series MSOs also have 16 digital inputs. The result? With the PicoScope 3000 Series MSOs you can view your digital and analog signals simultaneously.



Full-featured oscilloscope

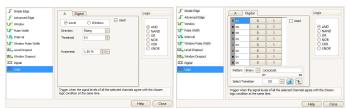


The PicoScope 3000 Series MSOs, while featuring the 2+16 channel format, still remain full-featured oscilloscopes. An arbitrary waveform generator is built-in and includes a sweep function. The oscilloscopes also offer mask limit testing, math and reference

channels, advanced triggers, serial decoding, automatic measurements and color persistence display.

Triggering

The PicoScope 3000 Series MSOs offer a comprehensive set of advanced triggers including pulse width, windowed and dropout triggers to help you capture the data you need. Digital triggering reduces timing errors and allows these oscilloscopes to trigger on the smallest signals, even at the full bandwidth. Trigger levels and hysteresis can be set with high resolution.



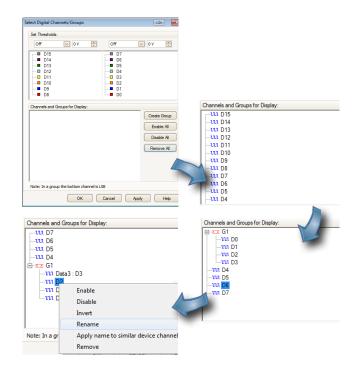
Digital triggering reduces re-arm delay and, combined with the segmented memory, allows the triggering and capture of events that happen in rapid sequence. For analog inputs the mask limit testing function can then scan through the buffer to highlight failed waveforms for viewing in the buffer navigator.

The 16 digital inputs can be displayed individually or in arbitrary groups labelled with binary, decimal or hexadecimal values. A separate logic threshold from -5 V to +5 V can be defined for each 8-bit input port. The digital trigger can be activated by any bit pattern combined with an optional transition on any input.

Advanced logic triggers can be set on either the analog or digital input channels, or both.

Selecting digital channels, or groups

Selecting the digital channels in the software couldn't be easier. Just click the digital channels button (IEEE), and then drag-and-drop to add the channels you want to see. These channels can be arranged into any order, grouped, renamed, and even temporarily disabled if required.



| MODEL | ANALOG BANDWIDTH | DIGITAL MAX. FREQ. | SAMPLING | BUFFER SIZE | WAVEFORM | PROBES SUPPLIED |
|--------------------|---------------------|-----------------------|----------|-------------|--------------------|-----------------|
| PicoScope 3204A | 60 MHz | - | 500 MS/s | 4 MS | Function generator | 2 x 60 MHz |
| PicoScope 3204B | 60 MHz | - | 500 MS/s | 8 MS | Func. gen. + AWG | 2 × 60 MHz |
| PicoScope 3204 MSO | 60 MHz | 100 MHz | 500 MS/s | 8 MS | Func. gen. + AWG | 2 × 60 MHz |
| PicoScope 3205A | 100 MHz | - | 500 MS/s | 16 MS | Function generator | 2 x 150 MHz |
| PicoScope 3205B | 100 MHz | - | 500 MS/s | 32 MS | Func. gen + AWG | 2 x 150 MHz |
| PicoScope 3205 MSO | 100 MHz | 100 MHz | 500 MS/s | 32 MS | Func. gen. + AWG | 2 x 150 MHz |
| PicoScope 3206A | 200 MHz | - | 500 MS/s | 64 MS | Function generator | 2 x 250 MHz |
| PicoScope 3206B | 200 MHz | - | 500 MS/s | 128 MS | Func. gen. + AWG | 2 × 250 MHz |
| PicoScope 3206 MSO | 200 MHz | 100 MHz | 500 MS/s | 128 MS | Func. gen. + AWG | 2 x 250 MHz |

| VERTICAL (Analog) | PicoScope 3204A/B/MSO | PicoScope 3205A/B/MSO | PicoScope 3206A/B/MSO | | | |
|--|--|--|---------------------------------------|--|--|--|
| Bandwidth (-3 dB) | 60 MHz | 100 MHz | 200 MHz | | | |
| Rise time (calculated) | 5.8 ns | 3.5 ns | 1.75 ns | | | |
| Input connectors | | BNC | | | | |
| Resolution | | 8 bits | | | | |
| nput characteristics | 2 cl | hannels, 1 M Ω ±1%, in parallel with 13 | pF ±1 pF | | | |
| nput coupling | | AC/DC | | | | |
| nput sensitivity | | 10 mV/div to 4 V/div (10 vertical division of the term 10 mV | isions) | | | |
| nput ranges | | ± 50 mV to ± 20 V in 9 ranges | | | | |
| Analog offset range | ±250 mV (50 mV, 100 mV, 200 m | | ranges), ±20 V (5 V, 10 V, 20 V range | | | |
| DC accuracy | | ±3% of full scale | | | | |
| Overvoltage protection | | ±100 V (DC + AC Peak) | | | | |
| /ERTICAL (Digital) | PicoScope 3204 MSO | PicoScope 3205 MSO | PicoScope 3206 MSO | | | |
| Number of channels | | 16 | | | | |
| nput connectors | | 2.54 mm pitch, 10 x 2 way connec | tor | | | |
| 1aximum input frequency | | 100 MHz | | | | |
| 1inimum detectable pulse width | | 5 ns | | | | |
| nput impedance (with TA136 cable) | | 200 kΩ ±2 % 8 pF ±2 pF | | | | |
| Digital threshold range | | ±5 V | | | | |
| nput range | | ±20 V | | | | |
| Overvoltage protection | The index and | ±50 V | | | | |
| hreshold grouping | Two independe | ent threshold controls - Port 0: D7-D0 | | | | |
| hreshold selection | | TTL, CMOS, ECL, PECL, User Defi ±100 mV | nea | | | |
| hreshold accuracy linimum input voltage swing | | 500 mV | | | | |
| Channel-to-channel skew | | < 5 ns | | | | |
| finimum input slew rate | | 10 V/µs | | | | |
| • | | | | | | |
| IORIZONTAL | PicoScope 3204A/B/MSO | PicoScope 3205A/B/MSO | PicoScope 3206A/B/MSO | | | |
| 1ax. sampling rate Th A or B | 500 MS/s | 500 MS/s | 500 MS/s | | | |
| л А ог в h A or B + 1 Digital port (MSO only) | 500 MS/s | 500 MS/s | 500 MS/s | | | |
| or 2 Digital ports (MSO only) | 500 MS/s | 500 MS/s | 500 MS/s | | | |
| Il other combinations (All models) | 250 MŚ/s | 250 MŚ/s | 250 MŚ/s | | | |
| ampling rate (repetitive sampling) | 2.5 GS/s | 5 GS/s | 10 GS/s | | | |
| ampling rate (cont. USB streaming) | 1 MS/s in PicoSco | ppe software. >10 MS/s using suppli | ed SDK (PC-dependent) | | | |
| imebase ranges (all models) | 2 ns/div to 1000 s/div | 1 ns/div to 1000 s/div | 500 ps/div to 1000 s/div | | | |
| uffer memory* (A models) | 4 MS | 16 MS | 64 MS | | | |
| uffer memory* (B/MSO models) | 8 MS | 32 MS | 128 MS | | | |
| Vaveform buffer (no. of segments) | | 1 to 10,000 | | | | |
| imebase accuracy | | ±50 ppm | | | | |
| ample jitter | | < 5 ps RMS | | | | |
| Shared between active channels | | | | | | |
| YNAMIC PERFORMANCE (typical) a | • | | | | | |
| Crosstalk | Better th | nan 400:1 up to full bandwidth (equal v | | | | |
| larmonic distortion | | < -50 dB at 100 kHz full scale inp | but | | | |
| FDR | | 52 dB typical | | | | |
| | | 7.6 bits | ` | | | |
| loise | | 180 µV RMS (on most sensitive ran | ge) | | | |
| ulse response | (| < 5% overshoot | C 11 1 - 141 | | | |
| andwidth flatness | (+0.3 d | B, -3 dB) at scope input, from DC to | full bandwidtn | | | |
| LL MODELS | | | | | | |
| RIGGER | Trigger modes | | le, Rapid (segmented memory) | | | |
| Main features) | Max. pre-trigger capture | 100% of capture size | | | | |
| | Max. post-trigger delay | 4 billion samples | | | | |
| | Trigger re-arm time | < 2 µs on fastest timebase | | | | |
| DICCED | Max. trigger rate Up to 10,000 waveforms in a 20 ms burst | | | | | |
| RIGGER Analog inputs) | Source | | A, Ch B | | | |
| | Trigger types | Rising, falling | | | | |
| | Advanced triggers Edge, Window, Pulse width, Window pulse width, Dropout, Window Advanced triggers | | | | | |
| | Digital triggering provides 1 LSB accuracy up to full bandwidth of score | | | | | |
| | Trigger sensitivity ETS mode: Typical 10 mV p-p, at full bandwidth | | | | | |
| RIGGER | Source D15 to D0 | | | | | |
| Digital inputs) | Trigger types Combined Level and Edge | | | | | |
| | Advanced triggers Data pattern (adjustable grouping) | | | | | |
| RIGGER | Source Ch A, Ch B, and D15 to D0 | | | | | |
| Logic) | Trigger types | AND, NAND, OR, NOR, XOF | R, XNOR of analog and digital inputs | | | |
| XTERNAL TRIGGER INPUT (A/B m | | | | | | |
| rigger types | | ge, pulse width, dropout, interval, logic | | | | |
| nput characteristics | | panel BNC, 1 M Ω ±1% in parallel with | · · · | | | |
| Bandwidth | 60 MHz | 100 MHz | 200 MHz | | | |
| | | | | | | |
| /oltage range Dvervoltage protection | | ± 5 V, DC coupled ± 100 V (DC + AC peak) | | | | |

| FUNCTION GENERATOR | PicoScope 3204A/B/MSO PicoScope 3205A/B/MSO PicoScope 3206A/B/MSO | | | |
|-----------------------------|---|--|--|--|
| Standard output signals | All models: Sine, square, triangle, DC voltage B/MSO models: ramp, sinc, Gaussian, half-sine, white noise, PRBS | | | |
| Standard signal frequency | DC to 1 MHz | | | |
| Bandwidth | > 1 MHz | | | |
| Output frequency accuracy | ±50 ppm | | | |
| Output frequency resolution | < 0.01 Hz | | | |
| Output voltage range | ± 2 V with $\pm 1\%$ DC accuracy | | | |
| Output voltage adjustment | Signal amplitude and offset adjustable in approx. 1 mV steps within overall \pm 2 V range | | | |
| Amplitude flatness | < 0.5 dB to 1 MHz, typical | | | |
| SFDR | > 60 dB, 10 kHz full scale sine wave | | | |
| Connector type | BNC, 600 Ω output impedance | | | |
| Overvoltage protection | ±10 V | | | |
| Sweep modes | Up, down, or alternating, with selectable start/stop frequencies and increments | | | |
| AWG (B/MSO models only) | | | | |
| Update rate | 20 MS/s | | | |
| Buffer size | 8 kS 8 kS 16 kS | | | |
| Resolution | 12 bits (output step size approx. 1 mV) | | | |
| Standard signal frequency | DC to 1 MHz | | | |
| Bandwidth | > 1 MHz | | | |
| Rise time (10 - 90%) | < 100 ns | | | |
| · · · · · | | | | |
| SPECTRUM ANALYZER | | | | |
| Frequency range | DC to 60 MHz DC to 100 MHz DC to 200 MHz | | | |
| 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 1 million in powers of 2 | | | |
| MATH CHANNELS | | | | |
| Functions | Arbitrary equations using: -x, x+y, x-y, x*y, x/y, sqrt, x^y, exp, In, log, abs, norm, | | | |
| Operands | sign, sin, cos, tan, arcsin, arccos, arctan, sinh, cosh, tanh A, B (input channels), T (time), reference waveforms, constants, pi | | | |
| • | | | | |
| | AC DMC to DMC DC success and the foregroup data and followed followed followed in the state bid | | | |
| Oscilloscope | AC RMS, true RMS, DC average, cycle time, frequency, duty cycle, falling rate, fall time, rising rate, rise time, high pulse width, low pulse width, maximum, minimum, peak to peak | | | |
| Spectrum | Frequency at peak, amplitude at peak, average amplitude at peak, total power, THD %, THD dB, | | | |
| Chaption: | THD plus noise, SFDR, SINAD, SNR, IMD | | | |
| Statistics | Minimum, maximum, average and standard deviation | | | |
| SERIAL DECODING | | | | |
| Protocols | CAN Bus, I ² C, SPI, RS232/UART, FlexRay, LIN | | | |
| MASK LIMIT TESTING | | | | |
| Statistics | Pass/fail, failure count, total count | | | |
| DISPLAY | | | | |
| Interpolation | Linear or sin(x)/x | | | |
| Persistence modes | Digital color, analog intensity, custom, or none | | | |
| GENERAL | | | | |
| PC connectivity | USB 2.0 hi-speed (USB 1.1 and USB 3.0 compatible) | | | |
| Power requirements | Powered from USB port (500 mA at 5 V) | | | |
| Dimensions | A/B models: $200 \times 140 \times 40$ mm (including connectors) MSOs: $210 \times 140 \times 40$ mm (including connectors) | | | |
| Weight | A/ B models. 200 x 140 x 40 min (including connectors) 1130s. 210 x 140 x 40 min (including connectors) < 0.5 kg | | | |
| Temperature range | Operating: 0 °C to 50 °C (20 °C to 30 °C for stated accuracy) | | | |
| Humidity range | 5 % to 80 % RH non-condensing | | | |
| Altitude | Up to 2000 m | | | |
| Environment | Dry locations only | | | |
| Safety approvals | Designed to EN 61010-1:2010 | | | |
| , , , , | • | | | |
| EMC approvals | Tested to EN61326-1:2006 and FCC Part 15 Subpart B | | | |
| Environmental approvals | RoHS and WEEE compliant PicoScope 6, SDK and example programs. Microsoft Windows XP, Windows Vista, Windows 7 or Windows 8 | | | |
| Software/PC requirements | (Windows RT not supported) | | | |
| Accessories | USB cable, 2 probes in probe case. MSO only: digital cable and 2 packs of 10 test clips. | | | |
| Languages (full support): | English, French, German, Italian and Spanish | | | |
| 1 (1) 1) | | | | |
| Languages (UI only): | Chinese (Simplified and Traditional), Czech, Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Swedish and Turkish | | | |

Connections

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Ch A Ch B

USB pico : The 2-channel PicoScope 3000 Series oscilloscopes have: PicoScope[®] 2 x BNC analog input channels EXT A GEN 1 x BNC External Trigger input 1 x BNC for the AWG/function generator 1 **A** - **A** 1 x USB port Ch A-Ch B External trigger AWG USB AWG and function generator pico The PicoScope 3000 Series MSOs have: PicoScope[®] 2 x BNC analog input channels 16 x digital input channels 1 x BNC AWG output 1 x USB port

Digital inputs

Kit contents and accessories



Your PicoScope 3000 Series oscilloscope kit contains your chosen PicoScope 3000 Series oscilloscope and the following items:

- 2 x probes in bag •
- USB cable
- Quick Start Guide
- Software and Reference CD

In addition to the above, the MSO kits also include:

- TA136 digital cable •
- 2 x TA139 pack of 10 test clips •



Ordering Information

| ORDER CODE | DESCRIPTION | GBP | USD* | EUR* |
|------------|---|------|------|------|
| PP708 | PicoScope 3204A with 2 x 60 MHz probes | 399 | 658 | 483 |
| PP709 | PicoScope 3204B with 2 x 60 MHz probes | 499 | 823 | 604 |
| PP859 | PicoScope 3204 MSO Kit | 649 | 1070 | 785 |
| PP710 | PicoScope 3205A with 2 x 150 MHz probes | 599 | 988 | 725 |
| PP711 | PicoScope 3205B with 2 x 150 MHz probes | 699 | 1153 | 846 |
| PP860 | PicoScope 3205 MSO Kit | 849 | 1400 | 1028 |
| PP712 | PicoScope 3206A with 2 x 250 MHz probes | 799 | 1318 | 967 |
| PP713 | PicoScope 3206B with 2 x 250 MHz probes | 899 | 1483 | 1088 |
| PP861 | PicoScope 3206 MSO Kit | 1049 | 1730 | 1270 |

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