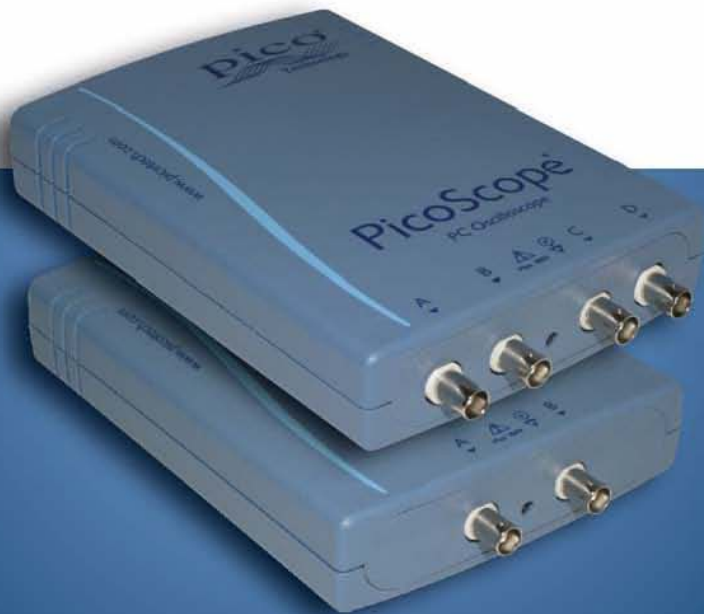


PicoScope[®] 4000 Series

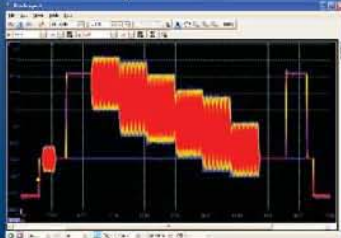
High-Precision PC Oscilloscopes



Detailed waveform capture from Pico Technology

- 12-bit resolution
- 80 MS/s real-time sampling rate
- USB 2.0 interface for data and power
- 32 M sample buffer size
- Up to 4 channels
- 2-channel IEPE model available

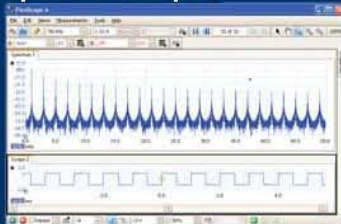
Oscilloscope



Zoomed scope views



Spectrum analyzer



All-in-one instruments

The PicoScope 4000 Series PC Oscilloscopes are extremely versatile, with an oscilloscope and spectrum analyser included in every model.

PicoScope 4224 IEPE

The 2-channel IEPE version is compatible with industry-standard IEPE accelerometers and microphones, making it suitable for a variety of measurement applications including noise vibration analysis.

Convenience and speed

The PicoScope 4000 Series scopes obtain their power from the USB 2.0 interface, so there's no need for an external power supply. The USB port also delivers high-speed data to your PC to give you a responsive, high-resolution display. With 80 MS/s sampling, the 4000 Series scopes are the fastest USB-powered 12-bit scopes around.

Deep memory

The 32 M sample buffer is 'always on'. There is never a compromise between buffer size and waveform update rate, because the PicoScope 4000 Series always maximises both at the same time. Now you can capture every waveform with full detail without having to think about it.

Advanced software

The scopes are bundled with the latest version of PicoScope for Windows. PicoScope is easy to use and can export data in a variety of graphical, text and binary formats. Also included are Windows drivers and example programs.

Channels (vertical)

Number of channels
Bandwidth
Output
Sensitivity
Full-scale ranges
DC accuracy
Nominal input impedance
Overload protection
Input coupling
Input connectors

Timebase (horizontal)

Timebases
Timebase accuracy
Timebase jitter

Trigger

Trigger sources
Modes
Types

Acquisition

ADC resolution
Software filtering
Sampling rate
Buffer size
Number of waveform segments in buffer

Display

Display styles

Measurements and analysis

Rulers
Automatic measurements
Channel maths
FFT

General

Operating temperature range
Power
PC connection
PC requirements
Dimensions
Weight
Approvals

PicoScope 4424	PicoScope 4224
4	2
20 MHz (10 MHz on ± 50 mV range)	
NA	NA
10 mV/div to 20 V/div	
± 50 mV to ± 100 V	
1% of full scale	
1 M Ω 22 pF	
± 200 V	
AC or DC, software-controlled	
4 x BNC	2 x BNC

PicoScope 4224 IEPE	
Passive Probe Mode	IEPE Interface Mode
2	
DC to 20 MHz (10 MHz on ± 50 mV range)	1.6 Hz to 20 MHz (10 MHz on ± 50 mV range)
NA	4 mA up to 24 V $\pm 5\%$
10 mV/div to 4 V/div	
± 50 mV to ± 20 V	
1% of full scale	
1 M Ω 22 pF	1 M Ω 1 nF
± 100 V	
AC or DC, software-controlled	AC
2 x BNC	

100 ns/div to 200 s/div
50 ppm
≤ 10 ps

Any input channel
Auto, repeat, single, none
Rising edge, falling edge, edge with hysteresis, pulse width, runt pulse, dropout, windowed

12 bits (up to 16 bits with resolution enhancement)
User-adjustable cut-off frequency and on/off control
1/2 Channels - 80 MS/s
3/4 Channels - 20 MS/s
80 MS/s
32 M samples shared between active channels
Adjustable from 1 to 10,000

12 bits (up to 16 bits with resolution enhancement)
User-adjustable cut-off frequency and on/off control
80 MS/s
32 M samples shared between active channels
Adjustable from 1 to 10,000

Real-time, digital color, analog intensity

2 per channel on Y axis + 2 on X axis
26 automatic measurements in time and frequency domains
Invert, add, subtract, multiply, divide, advanced equations
Spectrum view with up to 1 M points

+0 °C to +45 °C (+15 °C to +40 °C for quoted accuracy)
Powered from USB port: 5 V @ 500 mA max.
USB 2.0 (Compatible with USB 1.1)
Microsoft Windows XP (SP2), Vista, Windows 7
200 mm x 140 mm x 38 mm
< 500 g
FCC (EMC), CE (EMC, LVD), RoHS

+0 °C to +45 °C (+20 °C to +30 °C for quoted accuracy)
Powered from USB port: 5 V @ 500 mA max.
USB 2.0 (Compatible with USB 1.1)
Microsoft Windows XP (SP2), Vista, Windows 7
200 mm x 140 mm x 38 mm
< 500 g
FCC (EMC), CE (EMC, LVD), RoHS

ORDER CODES and PRICES

ORDER CODE	DESCRIPTION	PRICE
PP493	PicoScope 4424	£799 \$1318.35 €967.00
PP492	PicoScope 4224	£499 \$823.35 €604.00
PP695	PicoScope 4224 IEPE	£599 \$988.35 €725.00

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