

PicoScope[®] 4000 Series

High-Resolution PC Oscilloscopes

Oscilloscope



Zoomed scope views



Spectrum analyser



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

All-in-one instruments

6 90°

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

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 and Linux drivers and example programs.

www.picotech.com

SPECIFICATIONS

	PicoScope 4424	PicoScope 4224	
Channels (vertical)			
Number of channels	4	2	
Bandwidth	20 MHz (10 MHz on ±50 mV range)		
Sensitivity	10 mV/div to 20 V/div		
Full-scale ranges	±50 mV to ±100 V		
DC accuracy	1% of full scale		
Nominal input impedance	1 MΩ 22 pF		
Overload protection	±200 V		
Input coupling	AC or DC, software-controlled		
Input connectors	4 × BNC	2 × BNC	
Timebase (horizontal)			
Timebases	100 ns/div to 200 s/div		
Timebase accuracy	50 ppm		
Timebase jitter	≤ 10 ps		
Trigger			
Trigger sources	Any input channel		
Modes	Auto, repeat, single, none		
Турез	Rising edge, falling edge, edge with hysteresis,	pulse width, runt pulse, dropout, windowed	
Acquisition			
ADC resolution	12 bits (up to 16 bits with resolution enhancement)		
Software filtering	User-adjustable cut-off frequency and on/off control		
Sampling rate	80 MS/s, 1 or 2 channels 80 MS/s		
	20 Mission 4 channels		
Builler size	32 IM samples shared between active channels		
Display	Adjustable from 1 to 1000		
Display Display	Real time, digital colour, apalogue intensity		
Measurements and analysis	real-line, digital colour, analogue intensity		
Rulers	2 per channel on Y avis + 2 on X avis		
Automatic measurements	2 per channel of 1 axis 2 of \wedge axis 26 automatic measurements in time and frequency domains		
	Invert, add, subtract, multiply, divide, advanced equations		
FFT	Spectrum view with	up to 1 M points	
General		· · · · · · · · · · · · · · · · · · ·	
Operating temperature range	+0 °C to	+45 °C	
	(+15 °C to +40 °C fo	or quoted accuracy)	
Power	Powered from USB port: 5 V @ 500 mA max.		
PC connection	USB 2.0		
PC requirements	Microsoft Windows XP (SP2) or Vista, 32-bit versions only		
Dimensions	200 mm x 140 mm x 35 mm		
Weight	< 500 g		
Approvals	FCC (EMC), CE (EMC, LVD), RoHS		

ORDER CODES and PRICES

ORDER CODE	DESCRIPTION	PRICE		
PP493	PicoScope 4424	£799	\$1439	€1039
PP492	PicoScope 4224	£499	\$899	€649

US dollar and euro prices are subject to exchange rate variations. Contact Pico Technology or your distributor for up-to-date prices. Errors and omissions excepted.

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DO146-1 (draft)