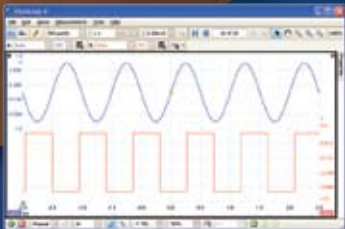# pico®
Technology

PicoScope®
2000 Series

25 MHz PC Oscilloscopes

Oscilloscope

Spectrum Analyser

Arbitrary Waveform Generator

Superb value for money from Pico Technology

- **40 MS/s to 200 MS/s real-time sampling rate**
- **Arbitrary waveform generator**
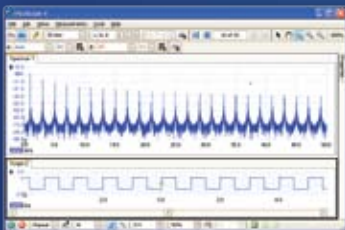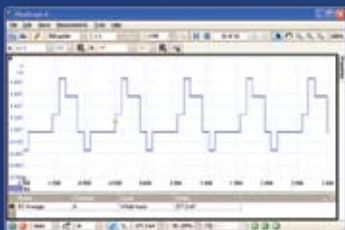- **USB 2.0 interface for data and power**
- **8 k to 16 k record length**

All-in-One Instruments

The PicoScope 2000 Series PC Oscilloscopes are extremely versatile, with an oscilloscope, spectrum analyser and arbitrary waveform generator included in every model. The compact, portable scopes fit easily in a laptop bag, and their robust cases have three BNC connectors—Channel A, Channel B and Signal Out—and a USB connector.

Convenience and Speed

The PicoScope 2000 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.

Advanced Software

The scopes are bundled with the same PicoScope software for Windows that comes with our high-end scopes. PicoScope is easy to use, and can export data in a variety of graphical, text and binary formats. Also included are drivers and example programs. The PicoLog software, also included, lets you log data for long periods of time.

	PicoScope **2203**	PicoScope **2204**	PicoScope **2205**
VERTICAL SECTION			
Bandwidth	5 MHz	10 MHz	25 MHz
Channels		2	
Resolution		8 bits	
Enhanced resolution		12 bits	
Dynamic range		48 dB	
Accuracy		3%	
Input ranges (full scale)		±50 mV, ±100 mV, ±200 mV, ±500 mV, ±1 V, ±2 V, ±5 V, ±10 V, ±20 V	
Input characteristics		1 MΩ || 20 pF or less	
Overload protection		±100 V on single input	
Input type		single-ended, BNC connector	
Input coupling		AC or DC (software-controlled)	
HORIZONTAL SECTION			
Sampling rate [1]	40 MS/s (1 GS/s with ETS)	100 MS/s (2 GS/s with ETS)	200 MS/s (4 GS/s with ETS)
Record length [2]	8,000 samples	8,000 samples	16,000 samples
Record length (in streaming mode)		2 M samples per channel	
Timebase ranges		500 ns, 1 µs, 2 µs, 5 µs... and so on up to 50 s, 100 s, 200 s per division	
Timebase accuracy		100 ppm with 3 ps jitter	
TRIGGER			
Source		Ch A or Ch B	
Modes	rising edge, falling edge, threshold		advanced [3]
ARBITRARY WAVEFORM GENERATOR			
Connector type		BNC	
Buffer size		4 k words	
Vertical resolution		8 bits	
Output range		± 125 mV to ±2 V pk-pk with ±1 V offset	
Output resistance		600 Ω	
Clock frequency		2 MHz	
Bandwidth		DC to 1 MHz	
ENVIRONMENTAL & PHYSICAL			
Operating temperature range		5 °C to 45 °C	
PC interface		USB 2.0	
Power requirements		from USB	
Dimensions		100 x 135 x 45 mm (approx. 4 x 5.4 x 1.8 in)	
Weight		210 g (aprox. 7.4 oz)	
Approvals		FCC, CE	

[1] Real-time sampling rate with one channel in use.
Shared equally if two channels in use.
Figures in parentheses are for Equivalent Time Sampling (ETS) mode.

[2] Memory shared between two channels if both in use.

[3] Rising edge and falling edge with hysteresis; pulse width; dropout; windowed; logic.

ORDER CODES and PRICES

ORDER CODE	DESCRIPTION
PP418	PicoScope 2203
PP419	PicoScope 2204
PP420	PicoScope 2205

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