



PicoScope 3425 Differential PC Oscilloscope

- No need for expensive differential preamplifiers or probes
- Ideal for measuring low-level signals in physics and biology laboratories
- Captures power waveforms from switch mode power supplies and motor inverters
- 4 channels
- 12-bit precision
- 5 MHz bandwidth
- 20 MS/s sampling rate
- 400 V differential and common-mode range
- PicoScope PC Oscilloscope and spectrum analysis software included
- PicoLog PC Data Logger software included
- USB 2.0 for high speed
- Powered by USB port
- Application Programming Interface (API) and example code included

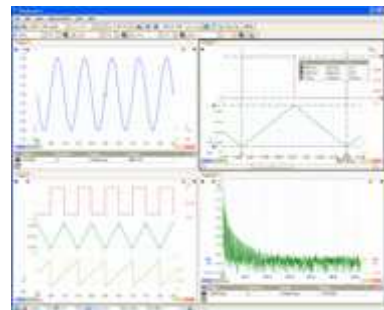
Specifications

Specification	Value
Vertical resolution	12 bits (16 bits in resolution enhance mode)
Analogue bandwidth	5 MHz (3 MHz on 100 mV range)
Channels	4
Maximum sampling rate	
Single channel	20 MS/s
Two channels	10 MS/s
Three or four channels	5 MS/s
Capture memory	
One channel enabled, up to 100 ms/div	512 k samples per channel
Two channels enabled, up to 100 ms/div	256 k samples per channel
Three or four channels enabled, up to 100 ms/div	128 k samples per channel
Over 100 ms/div	2 M samples per channel
Input type	Differential voltage Selectable AC or DC coupling Touch-proof BNC connectors with 4 mm GND sockets
Input impedance	12.4 M Ω (on 100 mV to 5 V ranges) 10.1 M Ω (on 10 V to 400 V ranges)
Input capacitance	12 pF
Common-mode voltage range to ensure measurement accuracy	30 V (on 100 mV to 5 V ranges) 400 V (on 10 V to 400 V ranges)
Maximum safe voltages	
Differential	400 V
Any input above scope GND	400 V (600 V transient)
Measurement category rating	CAT I
Voltage ranges	100 mV, 200 mV, 500 mV, 1 V, 2 V, 5 V, 10 V, 20 V, 50 V, 100 V, 200 V, 400 V
Accuracy	Voltage: $\pm 1\%$ Time: 50 ppm
Linearity	12 bits
Noise	< 10 LSB
Operating environment	
Temperature range	0 °C to 40 °C (20 °C to 30 °C for quoted accuracy)
Humidity range	Minimum 5% RH non-condensing Maximum 80% RH non-condensing, decreasing linearly to 50% at 40 °C
Storage environment	
Temperature range	-20 °C to 60 °C
Humidity range	5% to 90% RH non-condensing
Other environmental conditions	Dry environments Altitude up to 2000 m No pollution, or only dry, non-conductive pollution
PC connection	USB 2.0 Compatible with USB 1.1
Power supply	From USB port 4.6 V to 5.25 V DC @ approx. 500 mA No external power supply required
Dimensions	255 mm x 170 mm x 40 mm (approximately 10.0 in x 6.7 in x 1.6 in)
Weight	920 g (approximately 2 lb)



The 3425 kit is packaged in a tough carry case and includes all the accessories you need:

- Four screened BNC to 4 mm plug leads
- 4 current clamp adaptors
- 2 test probes
- 8 large crocodile clips
- USB cable
- Software and Reference CD
- Quick Start Guide



The PicoScope 3425 has powerful display and analysis capabilities:

- Multiple scope and spectrum views
- Automatic measurements
- Data export in text, binary and graphical formats
- Waveform buffer for storing multiple events

Ordering information

PP454 PicoScope 3425 Differential PC Oscilloscope Kit £975