



# PicoScope® 5000 Series

FLEXIBLE RESOLUTION OSCILLOSCOPES

## High Speed and High Resolution

#### FLEXIBLE HIGH-PERFORMANCE PC OSCILLOSCOPES

Flexible resolution, from 8 to 16 bits

Up to 200 MHz analog bandwidth

Up to 512 MS buffer memory

Up to 1 GS/s real-time sampling

Up to 10 GS/s equivalent-time sampling

Up to 200 MHz spectrum analyzer

Built-in function generator or AWG

USB-connected

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

#### PicoScope: power, portability and versatility

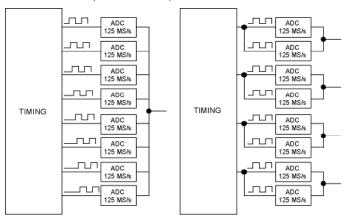
Pico Technology continues to push the limits of PC oscilloscope design. For the first time in an oscilloscope, Pico Technology have used reconfigurable ADCs to offer a choice of 8-bit to 16-bit resolutions in a single product.

#### Flexible resolution

Most digital oscilloscopes gain their high sampling rates by interleaving multiple 8-bit ADCs. Despite careful design, the interleaving process introduces errors that always make the dynamic performance worse than the performance of the individual ADC cores.

The PicoScope 5000 scopes have a significantly different architecture in which multiple high-resolution ADCs can be applied to the input channels in different series and parallel combinations to boost either the sampling rate or the resolution. In series mode, the ADCs are interleaved to provide 1 GS/s at 8 bits (see diagram).

Interleaving reduces the performance of the ADCs, but the result (60 dB SFDR) is still much better than oscilloscopes that interleave 8-bit ADCs. This mode can also provide 500 MS/s at 12 bits resolution.



In parallel mode, multiple ADCs are sampled in phase on each channel increasing the resolution to 14 bits (see diagram) at 125 MS/s per channel (70 dB SFDR). If only two channels are required then resolution can be increased to 15 bits, and in single-channel mode all the ADCs are combined to give a 16-bit mode at 62.5 MS/s.

#### **Portability**

Pico Technology oscilloscopes are small, light and portable. In 2-channel mode the 5000 Series scopes can be powered from USB only, making them ideal for the engineer on the move. The external power supply is only needed when operating more than 2 channels. The 5000 Series oscilloscopes are suitable 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 5000 Series offers up to 1 GS/s, and a maximum bandwidth of 200 MHz. Equivalent time sampling (ETS) mode can be used to further boost the sampling rate to 10 GS/s for a more detailed view of repetitive signals.

#### 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.

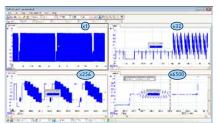
In 1991 we pioneered the use of fully digital triggering using the actual digitized data. This technique reduces trigger errors and allows our oscilloscopes to trigger on the smallest signals, even at the full bandwidth. Trigger levels and hysteresis can be set with high precision and resolution.

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.

#### Huge buffer memory

The PicoScope 5000 Series offers memory depths up to 512 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. Using its



512 MS buffer, the PicoScope 5444B can sample at 1 GS/s all the way down to 50 ms/div (500 ms total capture time).

Managing all this data calls for some powerful tools.

There's a set of zoom buttons, plus an overview window that lets you zoom and reposition the display by simply dragging with the mouse. Zoom factors of several million are possible.

Each captured waveform is stored in a segmented buffer so you can rewind and review up to 10,000 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.

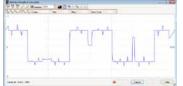
#### Advanced triggers



As well as the standard range of triggers found on all oscilloscopes, the PicoScope 5000 Series offers an industry-leading set of advanced triggers including pulse width, windowed and dropout triggers to help you capture the data you need.

#### 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 5000 Series B models include additional built-in

waveforms as well as an arbitrary waveform generator. Waveforms can be created or edited using the built-in AWG editor, imported from oscilloscope traces, or loaded from a spreadsheet.

#### 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.

#### High-end features as standard

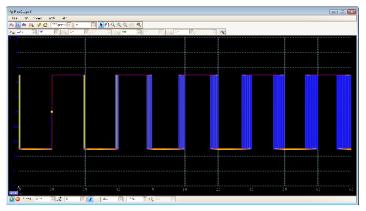
Buying a scope from some companies is a bit like buying a car. By the time you have added all the optional extras you need, the price has gone up considerably. With the PicoScope 5000 Series, high-end features such as mask limit testing, serial decoding, advanced triggering, measurements, math, XY mode, 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.

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.

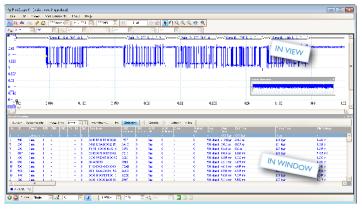
#### Persistence display modes

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.



#### Serial decoding

The PicoScope 5000 Series, with its deep memory, is ideal for serial decoding as it can capture thousands of frames of uninterrupted data. Protocols currently included are I<sup>2</sup>C, SPI, RS232/UART, CAN, LIN and FlexRay. Expect this list to grow with free software updates.



#### High-speed data acquisition/digitizer

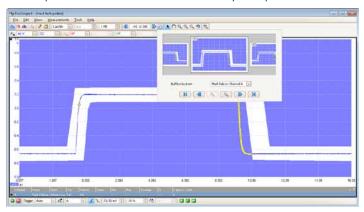
The drivers and software development kit supplied allow you to write your own software or interface to popular third-party software packages such as LabVIEW.

If the scope's ultra-deep memory 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 over 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.

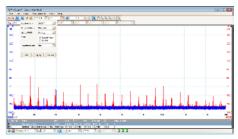


Connect the system under test, and PicoScope will highlight any parts of the waveform that fall outside the mask area. The highlighted details persist on the display, allowing the scope to catch intermittent glitches while you work on something else. The measurements window counts the number of failures, and can display other measurements and statistics at the same time. You can import and export masks as files.

#### 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.

#### Spectrum analyzer



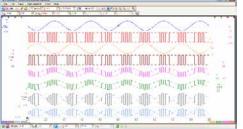
With a click of a button, you can display a spectrum plot of the selected channels with a maximum frequency up to 200 MHz. A full range of settings gives you control

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 IMD, can be added to the display.

#### Math channels

Create new channels by combining input channels and reference waveforms. Choose from a wide range of arithmetic, logarithmic,



trigonometric and other functions.

Define a function using the push-button control panel or type an equation in the text box.

PicoScope: the display can be as simple or as complex as Oscilloscope controls: Controls such as voltage range, scope you need. Begin with a single view of one channel, and then resolution, channel enable, timebase and memory depth are expand the display to include any number of live channels, placed on the toolbar for quick access, leaving the main display math channels and reference waveforms. area clear for waveforms. Signal generator: Generates standard signals or (on selected Tools > Serial decoding: Decode multiple serial data signals and display the data alongside the scopes) arbitrary waveforms. Includes frequency sweep mode. physical signal or as a detailed table. Waveform replay tools: PicoScope automatically records Tools > Reference channels: Store waveforms in up to 10,000 of the most recent waveforms. You can quickly memory or on disk and display them alongside live scan through to look for intermittent events, or use the Buffer inputs. Ideal for diagnostics and production testing. Navigator to search visually. Tools > Masks: Automatically generate a test mask from a waveform or draw one by hand. PicoScope Zoom and pan tools: PicoScope allows a zoom factor of highlights any parts of the waveform that fall several million, which is necessary when working with the deep outside the mask and shows error statistics. memory of the 5000 Series scopes. Either use the zoom-in, zoom-out and pan tools, or click and drag in the zoom overview Channel options: Filtering, offset, window for fast navigation. resolution enhancement, custom probes and more. **Views:** PicoScope is carefully designed to make the best use of the display area. You can add new scope and spectrum views with Auto setup button: Configures automatic or custom layouts. the timebase and voltage ranges for stable display of signals. Rulers: Each axis has two rulers that can be dragged across the screen to make quick measurements of amplitude, time Trigger marker: Drag and frequency. to adjust trigger level and pre-trigger time. **Maths channels:** Combine input channels and reference waveforms using simple arithmetic, or create custom equations with trigonometric and other functions. Ruler legend: Absolute and differential ruler measurements are listed here. - 14 2 KIn □||1 ~ □ \*/ | Movable axes: The vertical **Automatic measurements:** Trigger toolbar: axes can be dragged up Display calculated measurements Ouick access to and down. This feature is for troubleshooting and analysis. main controls, particularly useful when You can add as many measurements Spectrum view: Zoom overview: with advanced as you need on each view. Each one waveform is obscuring Click and drag for View FFT data another. There's also an Auto triggers in a measurement includes statistical alongside scope view quick navigation in Arrange Axes command. pop-up window. parameters showing its variability. zoomed views. or independently.

## PicoScope 5000 Series Specifications

VERTICAL	PicoScope 5242A	PicoScope 5442A	PicoScope 5242B	PicoScope 5442B	PicoScope 5243A	PicoScope 5443A	PicoScope 5243B	PicoScope 5443B
Number of channels	2	4	2	4	2	4	2	4
Bandwidth (-3 dB)		All mode	s: 60 MHz		8 to 15-bit	t modes: 100 M	Hz • 16-bit mod	le: 60 MHz
Bandwidth limiting (-3 dB)		20 MHz,	switchable			20 MHz,	switchable	
Rise time (calculated, 10% to 90%)		All mod	es: 5.8 ns		8 to 15-	-bit modes: 3.5	ns • 16-bit mod	e: 5.8 ns
Input connectors		BNCs on	front panel			BNCs on	front panel	
Resolution* Enhanced vertical resolution	8 bi		bits, 15 bits, 16 olution + 4 bits		8 1		bits, 15 bits, 16 solution + 4 bits	bits
Input characteristics		1 MΩ ±1%	13 pF, ±1 pF			1 MΩ ±1%	13 pF, ±1 pF	
Input coupling		AC,	/DC			AC	/DC	
Input sensitivity		2 mV/div	to 4 V/div			2 mV/div	to 4 V/div	
Input ranges	±10 r	nV to ±20 V fr	ull scale, in 11 i	anges	±10	mV to ±20 V f	ull scale, in 11 ra	anges
Analog offset range		2.5 V (500 mV,	100, 200 mV , 1 V, 2 V rang , 20 V ranges)			2.5 V (500 mV	, 100, 200 mV r , 1 V, 2 V range , 20 V ranges)	
DC accuracy ±50 mV to ±20 V ±10 mV and ±20 mV ranges		≥ 12-bit m	ode: ±0.25% t				0°C) • 8-bit mo C (±5% of full sca	
Overvoltage protection		± 100 V (D0	C + AC peak)			± 100 V (D	C + AC peak)	
* Maximum effective resolution is limited on th	ne lowest voltage	ranges: ±10 mV	$t = 8 \text{ bits } \cdot \pm 20$	mV = 12 bits. A	ll other ranges ca	n use full resoluti	on.	

HORIZONTAL	PicoScope 5242A	PicoScope 5442A	PicoScope 5242B	PicoScope 5442B	PicoScope 5243A	PicoScope 5443A	PicoScope 5243B	PicoScope 5443B
Max. sampling rate Any 1 channel Any 2 channels Any 3 channels Four channels		-bit mode 1 GS/s 500 MS/s 250 MS/s		12-bit mo 500 MS 250 MS 125 MS 125 MS	/s /s /s	12 12	bit mode 25 MS/s 25 MS/s 25 MS/s 25 MS/s	
Sampling rate (repetitive sampling)		2.5	GS/s			5 (	GS/s	
Sampling rate (USB streaming)	10 MS/s in l	PicoScope 6. >	·10 MS/s using	supplied API	10 MS/s in	PicoScope 6. >	10 MS/s using	supplied API
Timebase ranges		2 ns/div to	1000 s/div			1 ns/div to	1000 s/div	
Buffer memory** (8-bit)	16	MS	32	MS	64	MS	128	3 MS
Buffer memory** (≥ 12-bit)	8	MS	16	MS	32	MS	64	MS
Buffer memory** continuous streaming		100 MS in Picc	Scope softwar	e		100 MS in Picc	Scope software	<b>.</b>
Waveform buffer (no. of segments)		10,000 in Pico	Scope softwar	e		10,000 in Picc	Scope software	
Timebase accuracy (drift)		±50 ppm (±	5 ppm/year)			±2 ppm (±	1 ppm/year)	
Sample jitter		3 ps RM	IS, typical			3 ps RM	IS, typical	

**	Sharod	hotwoon	active.	channol	

DYNAMIC PERFORMANCE (typical; analog channels)
Crosstalk
Total harmonic distortion (THD)
SFDR
Noise (on 50 mV range)
Bandwidth flatness

	Better than 400:1 up to full bandwidth (equal voltage rang
8-bit mode: > 60	0 dB at 100 kHz full scale input $\bullet \ge 12$ -bit mode:> 70 dB at 10
8 and 12-bit: >	60 dB at 100 kHz full scale input • 14 to 16-bit: > 70 dB at 10
8-bit mode 120 μV RMS • 12-bit	mode 110 $\mu V$ RMS • 14-bit mode 100 $\mu V$ RMS • 15-bit mode
(+0.3 dB, -3 dB) from DC to full bandwidth	(+0.3 dB, -3 dB) from DC to full bandwidth

PicoScope 5000 Ser	ies Specification	ıs		
TRIGGERING	PicoScope 5242A/5442A	PicoScope 5242B/5442B	PicoScope 5243A/5443A	PicoScope 5243B/5443B
Source	All char	nnels	All ch	annels
Trigger modes			None, Auto, Repeat, Sing	gle, Rapid (segmented memory)
Advanced triggers		Edge, Window, Pu	lse width, Window pulse width	, Dropout, Window dropout, In
Trigger types (ETS mode)		•	Ris	ing, falling
Sensitivity		Digital triggering provides 1	I LSB accuracy up to full bandw	vidth of scope. • ETS mode: Typi
Maximum pre-trigger capture			100% c	of capture size
Maximum post-trigger capture			4 bill	ion samples
Trigger re-arm time			< 2 µs on	fastest timebase
Maximum trigger rate			Up to 10,000 way	eforms in a 20 ms burst
EXTERNAL TRIGGER INPUT				
Trigger types	Edge, pulse width, dro	pout, interval, logic	Edge, pulse width, d	ropout, interval, logic
Input characteristics	Front panel BNC, 1 MΩ	! ±1%    13 pF ±1 pF	Front panel BNC, 1 M	IΩ ±1%    13 pF ±1 pF
Bandwidth	60 M	Hz	100	MHz
Voltage range	±5 V, DC	coupled	±5 V, D0	C coupled
Overvoltage protection	±100 V (DC	+ AC peak)	±100 V (D0	C + AC peak)
FUNCTION GENERATOR				
Standard output signals	Sine, square, triar	gle, DC voltage	Sine, square, tri	angle, DC voltage
Standard signal frequency	DC to 20	) MHz	DC to	20 MHz
Output frequency accuracy	±50 ppm (±5	ppm/year)	±2 ppm (±	1 ppm/year)
Output frequency resolution	< 50 r	nHz	< 50	mHz
Output voltage range	±2 V with ±1%	DC accuracy	±2 V with ±1	% DC accuracy
Output voltage adjustment		Signal amp	litude and offset adjustable in a	pprox. 0.25 mV steps within over
Amplitude flatness	< 2 dB to 20 MHz, t	ypical @ 50 Ω load	< 2 dB to 20 MHz,	typical @ 50 Ω load
SFDR	> 70 dB, 10 kHz fu	ll scale sine wave	> 70 dB, 10 kHz	full scale sine wave
Connector type	BNC, 50 Ω outp	out impedance	BNC, 50 Ω ou	tput impedance
Overvoltage protection	±20	V	±2	.0 V
Sweep modes		Up, d	lown, or alternating, with select	table start/stop frequencies and
AWG (B models only)				
Update rate	-	200 MS/s	-	200 MS/s
Buffer size	-	16 kS	-	32 kS
Resolution	-	14 bits (output step size approx. 0.25 mV)	-	14 bits (output step size approx. 0.25 mV)
Bandwidth	-	> 20 MHz	-	> 20 MHz
Rise time (10% to 90%)		< 10 ns		< 10 ns
PROBE COMPENSATION OUTPUT				
Output characteristics	600	Ω	60	0 Ω
Output frequency	1 kH	Hz	11	kHz
Output level	3 V pl			pk-pk
Overvoltage protection	10	V	10	0 V

### PicoScope 5000 Series Specifications

Environmental approvals

Languages (full support):

Languages (UI only):

Accessories

Software/PC requirements

PicoScope 5000 Ser	ies Specifications		
SPECTRUM ANALYZER	PicoScope 5242A/5442A PicoScope 5242B/5-	42B PicoScope 5243A/5443A	PicoScope 5243B/5443B
Frequency range	DC to 60 MHz	DC t	o 100 MHz
Display modes	Magnitude, average, peak hold	Magnitude,	average, peak hold
Windowing functions	Re	tangular, Gaussian, triangular, Blad	kman, Blackman-Harris, Hamming,
Number of FFT points	Selectable from 128 to 1 million in powers of 2	Selectable from 128	to 1 million in powers of 2
MATH CHANNELS			
Functions	-x, x+y, x-y, x*y, x	, , , , ,	rm, sign, sin, cos, tan, arcsin, arccos
Operands		A, B, C, D (input channe	ls), T (time), reference waveforms,
AUTOMATIC MEASUREMENTS			
Oscilloscope	AC RMS, true RMS, DC average, cycle time, free	uency duty cycle falling rate fall t	ime rising rate rise time high nulse
Spectrum	<u> </u>	, , ,	peak, total power, THD %, THD dE
Statistics	Minimum, maximum, average and standard devia	· · · · · · · · · · · · · · · · · · ·	verage and standard deviation
	,,,,,	,, ,,,,	
SERIAL DECODING			
Protocols	I <sup>2</sup> C, I <sup>2</sup> S, SPI, RS232/UART, CAN, LIN, FlexRa	l <sup>2</sup> C, l <sup>2</sup> S, SPI, RS232/	UART, CAN, LIN, FlexRay
MASK LIMIT TESTING			
Statistics	Pass/fail, failure count, total count	Pass/fail, failu	re count, total count
DISPLAY		•	
Interpolation	Linear or sin(x)/x		r or sin(x)/x
Persistence modes	Digital color, analog intensity, custom, or none	Digital color, analog	intensity, custom, or none
GENERAL			
PC connectivity		USB 2.0 hi-speed (U	JSB 1.1 and USB 3.0 compatible)
Power requirements	1 A (2 channels) fr	·	able supplied) or 1.5 A at 5 V (up to
Dimensions	(2 4.14.11.16.16)	• •	mm (including connectors)
Weight			< 0.5 kg
Temperature range	Оре	rating: 0 °C to 50 °C (20 °C to 30	°C for stated accuracy). Storage: –
Humidity range	·		lensing. Storage: 5 %RH to 95 %RH
Environment		•	only; up to 2000 m altitude
Safety approvals			to EN 61010-1:2010
EMC approvals		Tested to EN61326-1	:2006 and FCC Part 15 Subpart B

RoHS and WEEE compliant

English, French, German, Italian and Spanish

USB cable(s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 2 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 3 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 3 or 4 probes in probe case, AC adaptor for 4-channel cable (s), 3 or 4 probes in probe case, 4 or 4 probes in probes in probe case, 4 or 4 probes in probes

Chinese (Simplified and Traditional), Czech, Danish, Dutch, Finnish, Greek, H Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Swedish

PicoScope 6, SDK and example programs. Microsoft Windows XP, Windows Vista, Windows 7 or

#### PicoScope 5000 Series

#### Connections

The front panels of the 2-channel PicoScope 5000 Series oscilloscopes have:

- 2 x BNC analog input channels
- 1 x BNC external trigger input
- 1 x BNC AWG/function generator output
- 1 x probe compensation output



- 4 x BNC analog input channels
- 1 x BNC external trigger input
- 1 x BNC AWG/function generator output
- 1 x probe compensation output

The rear panels of all oscilloscopes in the PicoScope 5000 Series have:

- 1 x DC power socket
- 1 x USB 2.0 port



#### Kit contents and accessories

Your PicoScope 5000 Series oscilloscope kit contains the following items:

- PicoScope 5000 Series oscilloscope
- 2 x probes (2-channel scopes)
- 4 x probes (4-channel scopes)
- Double-headed USB 2.0 cable
- Standard USB 2.0 cable (4-channel scopes only)
- Mains power adaptor (4-channel scopes only)
- Quick Start Guide
- Software and Reference CD

#### **Probes**

Your PicoScope 5000 Series oscilloscope kit comes with probes specifically trimmed to match the performance of your oscilloscope. The part numbers for these probes are as follows:



60 MHz	150 MHz	250 MHz
MI007	TA132	TA131

#### Ordering information

ORDER CODE	DESCRIPTION	NUMBER OF CHANNELS	BANDWIDTH	FUNC. GEN/ AWG	BUFFER SIZE	PROBES SUPPLIED
PP863	PicoScope 5242A	2	60 MHz	Function generator	16 MS	2 × 60 MHz
PP864	PicoScope 5242B	2	60 MHz	AWG	32 MS	2 × 60 MHz
PP865	PicoScope 5243A	2	100 MHz	Function generator	64 MS	2 x 150 MHz
PP866	PicoScope 5243B	2	100 MHz	AWG	128 MS	2 x 150 MHz
PP867	PicoScope 5244A	2	200 MHz	Function generator	256 MS	2 x 250 MHz
PP868	PicoScope 5244B	2	200 MHz	AWG	512 MS	2 × 250 MHz
PP869	PicoScope 5442A	4	60 MHz	Function generator	16 MS	4 x 60 MHz
PP870	PicoScope 5442B	4	60 MHz	AWG	32 MS	4 x 60 MHz
PP871	PicoScope 5443A	4	100 MHz	Function generator	64 MS	4 x 150 MHz
PP872	PicoScope 5443B	4	100 MHz	AWG	128 MS	4 x 150 MHz
PP873	PicoScope 5444A	4	200 MHz	Function generator	256 MS	4 x 250 MHz
PP874	PicoScope 5444B	4	200 MHz	AWG	512 MS	4 x 250 MHz

### www.picotech.com

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Click to view products by Pico manufacturer:

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PK007-026 PK106-5 PK116-3 PK1-5MM-102 PK1-5MM-104 PK1-5MM-105 PK1-5MM-108 PK1-5MM-111 PK1-5MM-112 PK1-5MM
113 PK1-5MM-120 TA041 GDS-1052-U GDS-1072A-U GDS-1102A-U GDS-2072A GDS-2202E GDS-2204E U3400A-1CM PP-150 PP
80 HO720 TT-MF312 TT-LF316 TT-HV150 TT-HF212RA TT-HF212 2555 2557 2566