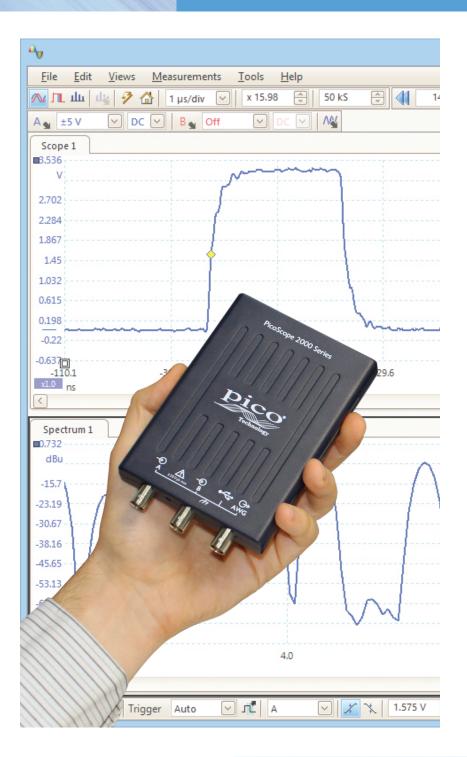


PicoScope® 2200A Series

Benchtop performance in a pocket-sized scope



2 channels Low cost 200 MHz bandwidth Up to 1 GS/s sampling rate Arbitrary waveform generator Advanced digital triggers Persistence display modes USB connected and powered Mask limit testing Serial bus decoding

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

WWW.PICOTECH.COM

Powerful, portable, and versatile

The PicoScope 2200A Series oscilloscopes offer a small, light, modern alternative to bulky benchtop devices. You can now fit a 200 MHz, 1 GS/s instrument easily in your laptop bag! They are perfect for engineers on the move, and ideal for a wide range of applications including design, test, education, service, monitoring, fault finding, and repair.

A small form factor is not the only benefit of these PC-based scopes. With our PicoScope 6 software, high-end features such as serial decoding and mask limit testing are included as standard. New functionality is regularly delivered through free upgrades, optimized with the help of feedback from our customers.

USB connectivity



The USB connection makes printing, copying, saving, and emailing your data from the field quick and easy. The high-speed USB interface

allows fast data transfer, while USB powering removes the need to carry around a bulky external power supply.



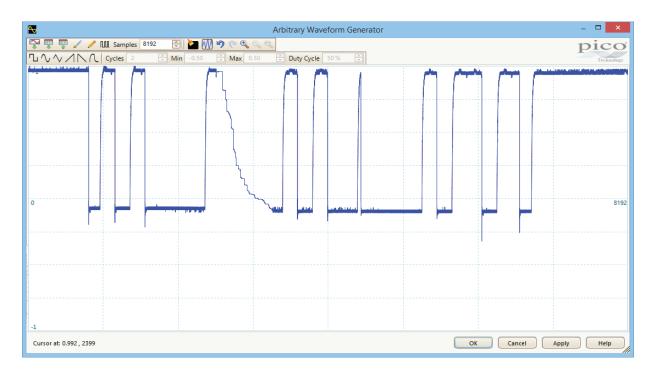
Fast sampling

The PicoScope 2200A Series oscilloscopes provide fast real-time sampling rates up to 1 GS/s, equivalent to a timing resolution of only 1 ns. For repetitive signals, equivalent-time sampling (ETS) mode can boost the maximum effective sampling rate up to 10 GS/s, allowing even finer resolution down to 100 ps. All scopes support pre-trigger and post-trigger capture.

Arbitrary waveform and function generators

All PicoScope 2200A Series oscilloscopes have a built-in arbitrary waveform generator (AWG). Waveforms can be imported from data files or created and modified using the built-in graphical AWG editor.

A function generator is also included, with sine, square, triangle, DC level and many more standard waveforms. As well as level, offset and frequency controls, advanced options allow you to sweep over a range of frequencies. Combined with the spectrum peak hold option, this creates a powerful tool for testing amplifier and filter responses.



Digital triggering

Most digital oscilloscopes 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 and can also create a long trigger rearm delay.

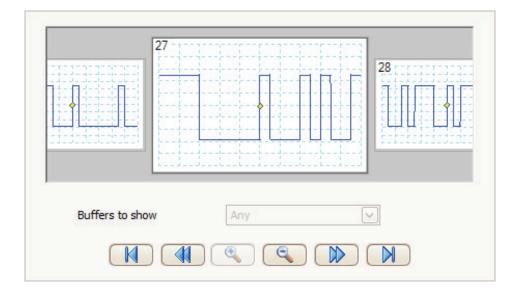
For over 20 years Pico have been pioneering the use of full digital triggering using the actual digitized data. This reduces trigger errors and allows our oscilloscopes to trigger on the smallest signals, even at the full bandwidth. All triggering is digital, resulting in high threshold resolution within programmable hysteresis and optimal waveform stability.

On selected models, the reduced rearm delay provided by digital triggering, together with segmented memory, allows the capture of events that happen in rapid sequence. At the fastest timebase, rapid triggering can capture a new waveform every 2 microseconds until the buffer is full. The mask limit testing function helps to detect waveforms that fail to meet your specifications.

 ✓ Simple Edge ✓ Advanced Edge ✓ Window ✓ Pulse Width 	Source Pulse Direction Condition	A Positive Pulse Greater than		Threshold Hysteresis	0 V 2.75 %	< < </th
다. Interval 또 Window Pulse Width 때, Level Dropout			Т	îme	0 s	
Window Dropout	Trigger when	n the pulse is long	er than the	specified tim	ne.	
					Help	Close

Advanced triggers

As well as the standard range of triggers found on most oscilloscopes, the PicoScope 2200A Series offers one of the best selections of advanced triggers available. These include pulse width, windowed and dropout triggers to help you find and capture your signal quickly.



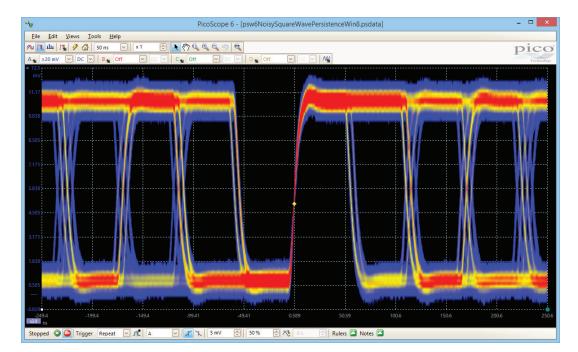
High signal integrity

Most oscilloscopes are built down to a price. PicoScopes are built up to a specification.

Careful front-end design and shielding reduces noise, crosstalk and harmonic distortion. Decades of oscilloscope design experience can be seen in 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.

Color persistence modes

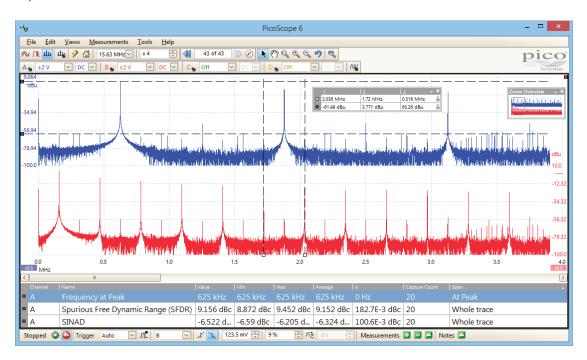
Advanced display modes allow you to see old and new data superimposed, with new data in a brighter color or shade. This makes it easy to see glitches and dropouts and to estimate their relative frequency. Choose between analog persistence, digital color, or custom display modes.



Spectrum analyzer

With the click of a button, you can open a new window to display a spectrum plot of selected channels up to the full bandwidth of the oscilloscope. A comprehensive range of settings gives you control over the number of spectrum bands, window types and display modes.

PicoScope software allows you to 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 can be added to the display, including THD, THD+N, SINAD, SNR and IMD. You can even use the AWG and spectrum mode together to perform swept scalar network analysis.

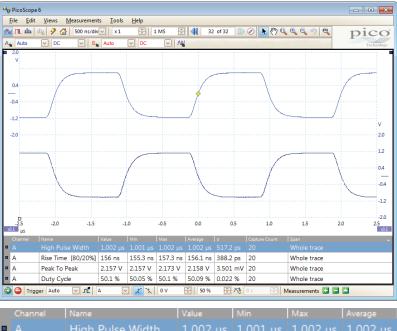


Automatic measurements

PicoScope allows you to automatically display a table of calculated measurements for troubleshooting and analysis. Using the built-in measurement statistics you can see the average, standard deviation, maximum and minimum of each measurement as well as the live value.

You can add as many measurements as you need on each view. Each measurement includes statistical parameters showing its variability.

For information on the measurements available in scope and spectrum modes, see Automatic Measurements in the Specifications table.



	Channel	Name	value	wiin		Average
1	А	High Pulse Width	1.002 µs	1.001 µs	1.002 µs	1.002 µs
	А	Rise Time [80/20%]	156 ns	155.3 ns	157.3 ns	156.1 ns
	А	Peak To Peak	2.157 V	2.157 V	2.173 V	2.158 V
I	А	Duty Cycle	50.1 %	50.05 %	50.1 %	50.09 %

15 scope mode measurements

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70, 80, 90,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 kHz hannsi	Name		an Hunna	10	Martin	Value	Min	Max	Average	σ	Capture Count	Span	4.5	5.
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70, 80, 90,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total	lency a Power				Value	Min 999.9 Hz V 703.1 mW	Max 999.9 Hz 703.1 mW	Average 999.9 Hz	a 304.1 mHz	Capture Count 20 20	Span	ace	5.0
70, 80, 90, 10 A	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Signa	Jency a Power	bise Ratio			Value 999.9 Hz 703.1 mV	Min 999.9 Hz V 703.1 mW	Max 999.9 Hz 703.1 mW	Average 999.9 Hz 703.1 mW	。 304.1 mHz 0 W	Capture Count 20 20	Span At Peak Whole tra	ace	5) 5)
70) 80) 90) 10 6 A A A	0 00 00 kHz hannel	Total Signa	Power I to No Harmo	bise Ratio	(SNR)		Value 999.9 Hz 703.1 mV 44.32 dBo	Min 999.9 Hz V 703.1 mW c 44.32 dBc	Max 999.9 Hz 703.1 mW 44.32 dBc 0.653 %	Average 999.9 Hz 703.1 mW 44.32 dBc 0.648 %	a 304.1 mHz 0 W 5.643E-3 dBc 0.003 %	Capture Count 20 20 20	Span At Peak Whole tra Whole tra	ace	54
70) 80) 90) 10 6 A A A	0 hara	Total Signa Total	Power I to No Harmo	b ise Ratic bnic Diste	(SNR) prtion (TH		Value 999.9 Hz 703.1 mV 44.32 dBo 0.653 %	Min 999.9 Hz V 703.1 mW c 44.32 dBc 0.645 %	Max 999.9 Hz 703.1 mW 44.32 dBc 0.653 %	Average 999.9 Hz 703.1 mW 44.32 dBc 0.648 %	a 304.1 mHz 0 W 5.643E-3 dBc 0.003 %	Capture Count 20 20 20 20 20	Span At Peak Whole tra Whole tra	ace	54
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11 spectrum mode measurements

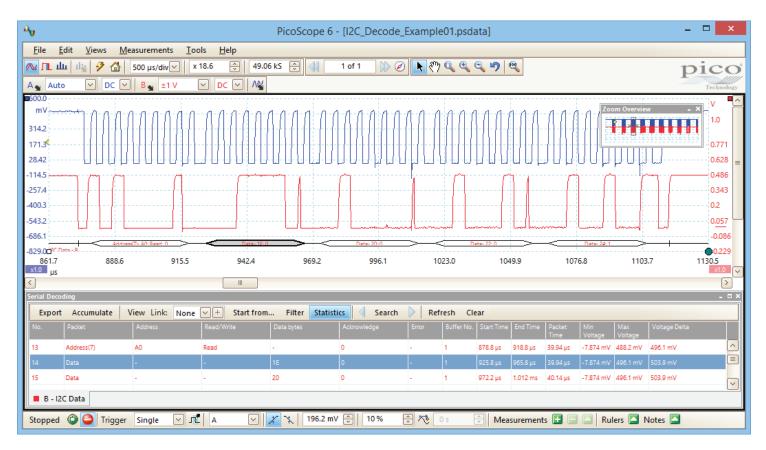
Serial decoding

The PicoScope 2200A Series oscilloscopes include serial decoding capability as standard. The decoded data can be displayed in the format of your choice: **in view, in window,** or both at once.

• In view format shows the decoded data beneath the waveform on a common time axis, with error frames marked in red. These frames can be zoomed to investigate noise or distortion.

• In window format shows a list of the decoded frames, including the data and all flags and identifiers. You can set up filtering conditions to display only the frames you are interested in, search for frames with specified properties, or define a start pattern to signal when the program should list the data.

It is also possible to create a spreadsheet to decode the hexadecimal data into user-defined text strings.



Math channels

With PicoScope 6 you can perform a variety of mathematical calculations on your input signals and reference waveforms.

Use the built-in list for simple functions such as addition and inversion, or open the equation editor and create complex functions involving trigonometry, exponentials, logarithms, statistics, integrals and derivatives.



High-speed data acquisition and digitizing

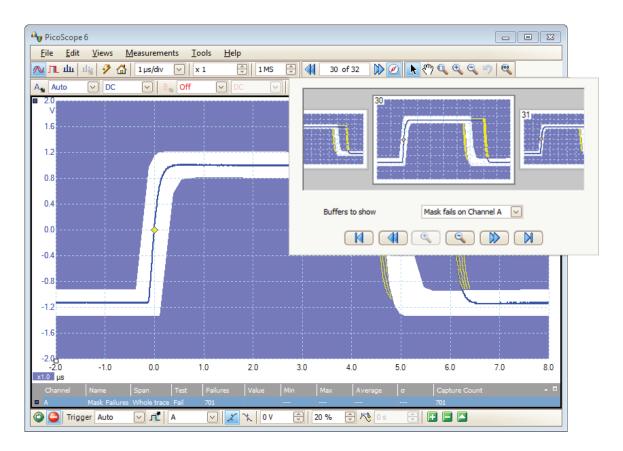
The supplied drivers and software development kit allow you to both write your own software and interface to popular third-party software packages such as LabVIEW and MATLAB.

The drivers support data streaming, a mode that captures gap-free continuous data over the USB port directly to the PC's RAM or hard disk at a rate of 1 to 9.6 MS/s, so you are not limited by the size of the scope's buffer memory. Sampling rates in streaming mode are subject to PC specifications and application loading.

Mask limit testing

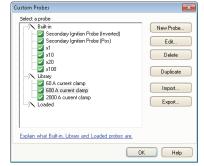
PicoScope allows you to draw a mask around any signal with user-defined tolerances. This has been designed specifically for production and debugging environments, enabling you to compare signals. Simply capture a known good signal, draw a mask around it, and then attach the system under test. PicoScope will capture any intermittent glitches and can show a failure count and other statistics in the **Measurements** window.

The numerical and graphical mask editors can be used separately or in combination, allowing you to enter accurate mask specifications, modify existing masks, and import and export masks as files.



Custom probe settings

The custom probes menu allows you to correct for gain, attenuation, offsets and nonlinearities of probes and transducers, or convert your waveform data to different units such as current, scaled voltage, temperature, pressure, power or dB. Definitions can be saved to disk for later use. Definitions for standard Pico-supplied oscilloscope probes and current clamps are built in, and you can also create your own using linear scaling or even an interpolated data table.



High-end features as standard

Buying a PicoScope is not like making a purchase from other oscilloscope companies, where optional extras considerably increase the price. With our scopes, high-end features such as resolution enhancement, mask limit testing, serial decoding, advanced triggering, automatic measurements, math channels, XY mode, segmented memory (where available), and a signal generator are all included in the price.

To protect your investment, both the PC software and firmware inside the scope can be updated. Pico Technology have a long history of providing new features for free through software downloads. We deliver on our promises of future enhancements year after year, unlike many other companies in the field. Users of our products reward us by becoming lifelong customers and frequently recommending us to their colleagues.

PicoScope 6 software

The PicoScope software display can be as simple or as detailed as you need. Begin with a single view of one channel, and then expand the display to include up to four live channels, plus math channels and reference waveforms.

Oscilloscope controls: Controls such as voltage range, channel enable, timebase and memory depth are placed on the toolbar for quick access, leaving the main display area clear for waveforms.

Tools > Serial decoding: Decode multiple serial data signals and display the data alongside the physical signal or as a detailed table.

Tools > Reference channels: Store waveforms in memory or on disk and display them alongside live inputs. Ideal for diagnostics and production testing.

Tools > Masks: Automatically generate a test mask from a waveform or draw one by hand. PicoScope highlights any parts of the waveform that fall outside the mask and shows error statistics.

Channel options: Set axis offset and scaling, DC offset, zero offset, resolution enhancement, custom probes, and filtering here.

Auto setup button:

Configures the timebase and voltage ranges for

stable display of signals

Waveform replay tools: PicoScope automatically records up to 10 000 of the most recent waveforms. You can quickly scan through to look for intermittent events, or use the Buffer Navigator to search visually.

Trigger marker: Drag the marker to adjust trigger level and pre-trigger time.

Zoom and pan tools: PicoScope makes it easy to zoom into large waveforms. Either use the zoom-in, zoom-out and pan tools, or click and drag in the Zoom Overview window for fast navigation.

Function generator: Generates standard signals or arbitrary waveforms. Includes frequency sweep mode.

Views: PicoScope is carefully designed to make the best use of the display area. The waveform view is much bigger and higher resolution than a typical benchtop scope. You can add new scope and spectrum views with automatic or custom layouts.

> **Rulers:** Each axis has two rulers that can be dragged across the screen to make quick measurements of amplitude, time and frequency.

> > **Ruler legend:** Absolute and differential ruler measurements are listed here.

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Movable axes: The vertical axes can be dragged up and down. This feature is particularly useful when one waveform is obscuring another. There's also an *Auto Arrange Axes* command. Trigger toolbar: Quick access to main controls, with advanced triggers in a pop-up window. Automatic measurements: Display calculated measurements for troubleshooting and analysis. You can add as many measurements as you need on each view. Each measurement includes statistical parameters showing its variability. Zoom overview: Click and drag for quick navigation in zoomed views. **Spectrum view:** View FFT data alongside scope view or in dedicated spectrum mode.

Product selector

Model	PicoScope 2204A	PicoScope 2205A	PicoScope 2206A	PicoScope 2207A	PicoScope 2208A
Bandwidth (–3 dB)	10 MHz	25 MHz	50 MHz	100 MHz	200 MHz
Maximum sampling rate	100 MS/s	200 MS/s	500 MS/s	1 GS/s	1 GS/s
Buffer memory	8 kS	16 kS	32 kS	40 kS	48 kS
Function generator + AWG	100 kHz	100 kHz	1 MHz	1 MHz	1 MHz

Detailed specifications

VERTICAL							
Input channels			2				
Bandwidth (–3 dB)	10 MHz	25 MHz	50 MHz	100 MHz	200 MHz		
Rise time (calculated)	35 ns	14 ns	7 ns	3.5 ns	1.75 ns		
Vertical resolution		8 bits					
Enhanced vertical resolution		Up to 12 bits					
Input ranges	±50 mV, ±100 mV, ±200 mV, ±500 mV, ±1 V, ±2 V, ±5 V				0 V		
Input sensitivity		10 mV/div to 4 V/div (10 vertical divisions)					
Input coupling			AC / DC				
Input characteristics	BNC, 1 M	Ω 14 pF		BNC, 1 MΩ 13 pF			
Analog offset range (vertical position adjustment)	- ±2.5 V (500			V (50 mV to 200 m (500 mV to 2 V r (5 V to 20 V rang	ranges)		
DC accuracy			±3% of full scale				
Overvoltage protection		ŧ	100 V (DC + AC peak	<)			
HORIZONTAL (TIMEBASE)							
Maximum sampling rate 1 ch. (real-time) 2 ch.		200 MS/s (ChA) 100 MS/s	500 MS/s 250 MS/s	1 GS/s 500 MS/s	1 GS/s 500 MS/s		
Equivalent sampling rate (ETS)	2 GS/s	4 GS/s	5 GS/s	10 GS/s	10 GS/s		
Maximum sampling rate (streaming)	1 M	IS/s		9.6 MS/s			
Timebase ranges	10 ns to 5000 s/div	5 ns to 5000 s/div	2 ns to 5000 s/div	1 ns to 5000 s/div	500 ps to 5000 s/d		
Buffer memory (shared between active channels)	0 KJ	16 kS	32 kS	40 kS	48 kS		
Buffer memory (streaming mode)	2 MS per channel in			(shared) in PicoScope	software.		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Up to avail	able PC memory wher	n using SDK.			
Maximum buffers (normal triggering)			10 000				
Max. buffers (rapid block triggering)	Not av				32		
Timebase accuracy		±100 ppm ±50 ppm					
Sample jitter	< 30 p	< 30 ps RMS < 5 ps RMS					
DYNAMIC PERFORMANCE (typical)							
Crosstalk (full bandwidth)	Better than 200:	1 (equal ranges)	Bette	er than 400:1 (equal r	anges)		
Harmonic distortion		< -50 a	dB at 100 kHz, full-sca	ale input			
SFDR		> 52 c	IB at 100 kHz, full-scal	e input			
Noise	< 150 µV RMS ((±50 mV range)	< 20)0 μV RMS (±50 mV r	ange)		
Bandwidth flatness (at scope input)		(+0.3 dB, ·	–3 dB) from DC to full	l bandwidth			
TRIGGERING							
Sources			Ch A, Ch B				
Trigger modes		repeat, single		peat, single, rapid (segr	mented memory)		
Advanced triggers			w pulse width, dropou				
Trigger types, ETS			Rising or falling edge		× 0		
Trigger sensitivity		Digital triggering pr In ETS mode	ovides 1 LSB accuracy , typical 10 mV p-p at 1	up to full bandwidth full bandwidth			
Maximum pre-trigger capture			100% of capture size				
Maximum post-trigger delay			4 billion samples				
Trigger re-arm time	PC-dep	endent	<	2 µs on fastest timeba	ise		
Maximum trigger rate	PC-dep			32 waveforms in a 64			

PicoScope 2204A PicoScope 2205A PicoScope 2206A PicoScope 2207A PicoScope 2208A

FUNCTION GENERATOR						
Standard output signals		Sine, square, triangle	e, DC voltage, ramp, sir	nc, Gaussian, half-sine		
Pseudorandom output signals	N	one		White noise, PRBS		
Standard signal frequency	DC to	100 kHz		DC to 1 MHz		
Sweep modes	l	Jp, down, dual with se	lectable start/stop free	juencies and incremen	its	
Triggering		-	Free-run or up to 1 billion waveform cycles or frequency sweeps Triggered from scope trigger or manually.			
Output frequency accuracy	±100) ppm		±50 ppm	,	
Output frequency resolution			< 0.01 Hz			
Output voltage range			±2 V			
Output adjustments		Any ampli	tude and offset within :	±2 V range		
Amplitude flatness (typical)	< 1 dB to	o 100 kHz		< 0.5 dB to 1 MHz		
DC accuracy			±1% of full scale			
SFDR (typical)	> 55 dB at 1 kHz	full-scale sine wave	> 60 dB	at 10 kHz full-scale si	ne wave	
Output characteristics		Front pan	el BNC, 600 Ω output	impedance		
Overvoltage protection			±10 V			
ARBITRARY WAVEFORM GENERATOR						
Update rate	1.548	3 MS/s		20 MS/s		
Buffer size	4	kS		8 kS		
Resolution			12 bits			
Bandwidth	> 10	0 kHz		> 1 MHz		
Rise time (10% to 90%)	< 2	2 µs		< 120 ns		
SPECTRUM ANALYZER						
Frequency range	DC to 10 MHz	DC to 25 MHz	DC to 50 MHz	DC to 100 MHz	DC to 200 MHz	
Display modes		Mag	gnitude, average, peak	hold		
Windowing functions	Rectangul	ar, Gaussian, triangula	r, Blackman, Blackman-	Harris, Hamming, Ha	nn, flat-top	
Number of FFT points		Selectable from 128 t	o half available buffer n	nemory in powers of 2	2	
MATH CHANNELS						
Functions	-x, x+y, x-y, x sin	x*y, x/y, x^y, sqrt, ex h, cosh, tanh, freq, de	o, In, Iog, abs, norm, sig rivative, integral, min, r	gn, sin, cos, tan, arcsin nax, average, peak, de	, arccos, arctan, elay	
Operands		A, B (input channels),	T (time), reference wa	veforms, constants, P	i	
AUTOMATIC MEASUREMENTS						
Scope mode			age, duty cycle, falling r m, minimum, peak to p			
Spectrum mode	tot	Frequency at peak, a al power, THD %, TH	mplitude at peak, avera D dB, THD plus noise,	ige amplitude at peak, SFDR, SINAD, SNR, I	MD	
Statistics			imum, average and sta			
SERIAL DECODING						
Protocols		CAN, LIN, I	² C, UART/RS-232, SPI	, I²S, FlexRay		
MASK LIMIT TESTING						
Statistics		Pass/	fail, failure count, total	count		
			,,,,			
DISPLAY						
Interpolation Persistence modes			Linear or sin(x)/x r, analog intensity, cust			
		Digital Colo	r, analog intensity, cust	on, or none		
GENERAL						
PC connectivity			and 3.0 compatible). U			
Power requirements			Powered from USB por	`t		
Dimensions (including connectors)			142 x 92 x 19 mm			
Weight			< 0.2 kg (7 oz)			
Temperature range			to 30 °C for stated accu			
Humidity range	Operatir	•	-condensing. Storage: !		ndensing.	
Safety approvals			signed to EN 61010-1:2			
Compliance			ested to meet EN61320			
Software included			K, example programs (
PicoScope software PC requirements		· · ·	/ista, Windows 7 or W Panish, Dutch, English, F	· ·	,	
Languages	Italian, Japanese, H	Korean, Norwegian, P	olish, Portuguese, Rom	anian, Russian, Spanisl	h, Swedish, Turkish	



generator



Kit contents and accessories

Your PicoScope 2200A Series oscilloscope kit contains the following items:

- PicoScope 2200A Series oscilloscope
- USB cable
- Two x1/x10 passive probes (with kits PP906 to PP910)
- Quick Start Guide
- Software and reference CD

Probes

Two x1/x10 passive probes are included, chosen to match the bandwidth of your scope.

	Probes included (kits PP906 to PP910)	Order code
2204A 2205A 2206A	60 MHz probes (2)	MI007
2207A	150 MHz probes (2)	TA132
2208A	250 MHz probes (2)	TA131

Hand-held oscilloscopes

Also available in the PicoScope 2000 Series, the PicoScope 2104 and 2105 single-channel hand-held oscilloscopes are the ultimate in compact design. See www.picotech.com for details.





Ordering information

ORDER CODE	DESCRIPTION	GBP*	USD*	EUR*
PP917	PicoScope 2204A 10 MHz oscilloscope without probes	79	130	96
PP906	PicoScope 2204A 10 MHz oscilloscope	99	163	120
PP966	PicoScope 2205A 25 MHz oscilloscope without probes	129	213	156
PP907	PicoScope 2205A 25 MHz oscilloscope	149	246	180
PP908	PicoScope 2206A 50 MHz oscilloscope	249	411	301
PP909	PicoScope 2207A 100 MHz oscilloscope	349	576	422
PP910	PicoScope 2208A 200 MHz oscilloscope	499	823	624

*Prices are correct at the time of publication. VAT not included. Please contact Pico Technology for the latest prices before ordering. For deeper memory, or higher or flexible resolution, see the PicoScope 3000, 4000 and 5000 Series oscilloscopes.

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