

PicoScope[®] 6000 Series

HIGH-PERFORMANCE USB OSCILLOSCOPES

Ultra-deep memory. Fast data transfers.

4 CHANNELS • 500 MHz BANDWIDTH • 5 GS/s SAMPLING 2 GSAMPLE BUFFER MEMORY

PicoScope



SuperSpeed USB 3.0 interface 500 MHz spectrum analyzer Arbitrary waveform generator Advanced triggers 100 million × zoom Mask limit testing Serial bus decoding

Compatible with Windows XP, Windows Vista, Windows 7 and Windows 8, USB 2.0 and USB 3.0 • Supplied with an SDK including example programs • Free technical support

From a name you can trust

www.picotech.com

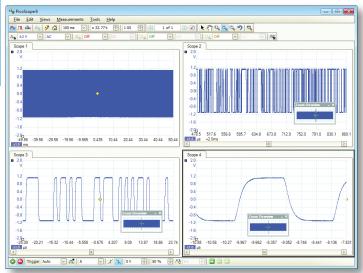
PicoScope performance and reliability

With over 20 years' experience in the test and measurement industry, we know what's important in a new oscilloscope. The PicoScope 6000 Series scopes give you the best value for money of any oscilloscope, with outstanding bandwidth, sampling rate and memory depth specifications. These features are backed up by advanced software optimized with the help of feedback from our customers.

High bandwidth, high sampling rate

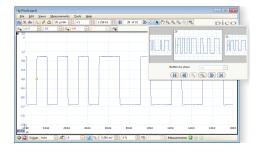
With 250 MHz to 500 MHz analog bandwidths complemented by a real-time sampling rate of 5 GS/s, the PicoScope 6000 Series scopes can display single-shot pulses with 200 ps time resolution. Equivalent time sampling (ETS) mode boosts the maximum sampling rate to 50 GS/s, giving an even finer timing resolution of 20 ps for repetitive signals.

Huge buffer memory



Deep memory allows you to zoom in ... and in ... and in

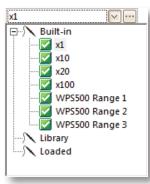
The PicoScope 6000 Series gives you the deepest buffer memory available as standard on any oscilloscope at any price. The SuperSpeed USB 3.0 interface ensures that the display is smooth and responsive even with long captures. Other oscilloscopes have high maximum sampling rates, but without deep memory they cannot sustain these rates on long timebases. The 2 gigasample buffer on the PicoScope 6404D can hold two 200 ms captures at the maximum sampling rate of 5 GS/s. To help manage all this data, PicoScope can zoom up to 100 million times using a choice of two zoom methods. There are zoom buttons as well as an overview window that lets you zoom and reposition the display by simply dragging with the mouse.



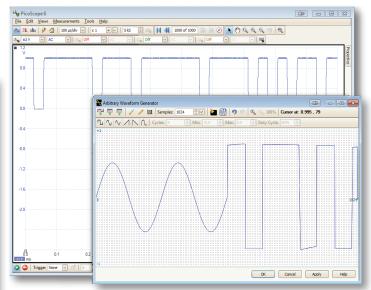
To help you find you way around the buffer memory, you can divide it into as many as 10,000 individually triggered segments. Use the visual buffer navigator to scan through the segments, or set up a mask to filter out the waveforms of interest.

Custom probe settings

The custom probes menu allows you to correct for gain, attenuation, offsets and nonlinearities of probes and transducers, or convert to different measurement units. Definitions for standard Pico-supplied probes are built in, but you can also create your own using linear scaling or even an interpolated data table.



Arbitrary waveform and function generator



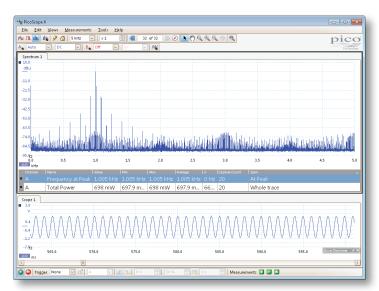
Every model includes a built-in DC to 20 MHz function generator with sine, square, triangle and DC waveforms. D models add a built-in 12 bit, 200 MS/s arbitrary waveform generator. You can import arbitrary waveforms from data files or create and modify them using the built-in graphical AWG editor.

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. The spectrum view

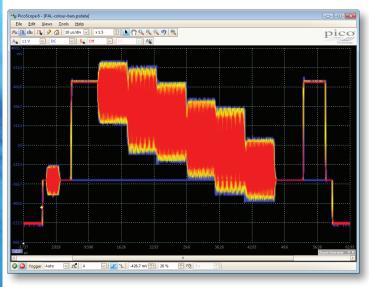


can optionally be displayed together with a time-domain view. A comprehensive range of settings give you control over the number of spectrum bands, window types and display modes.

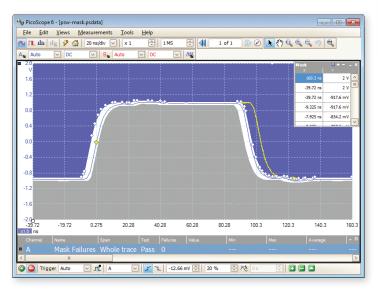


Color persistence modes

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, digital color or custom display modes.



Mask limit testing



This feature is 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 vertical and horizontal tolerances. 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, so the scope can catch intermittent glitches even while your attention is elsewhere. The measurements window counts the number of failures, and can display other measurements and statistics at the same time.

The numerical and graphical mask editors (both shown below) can be used separately

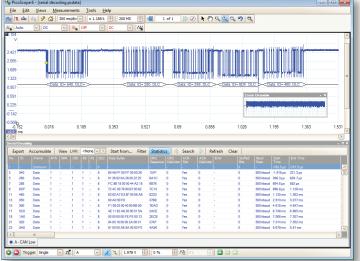
or in combination, allowing you to enter accurate mask specifications or modify existing masks. You can import and export masks as files.

Mask	□ + ×
 160.3 ns	2 V 🔼
-39.72 ns	2 V 🔳
 -39.72 ns	-917.6 mV
-9.325 ns	-917.6 mV
-7.925 ns	-834.2 mV
 7 775	

High-speed data acquisition

The drivers and software development kit supplied allow you to write your own software or interface to popular third-party software packages. If the 2 GS buffer memory of the PicoScope 6404D isn't enough, the drivers support data streaming, a mode that captures gap-free continuous data over the USB 3.0 port directly to the PC's RAM at over 150 MS/s and to solid-state disk at up to 78 MS/s. Rates are subject to PC specifications and application loading.

Serial data decoding



The PicoScope 6000 Series oscilloscopes are well-suited to serial decoding, with a deep memory buffer that allows them to collect long, uninterrupted sequences of data. This allows the capture of thousands of frames or packets of data over several seconds. The scopes can decode up to four buses simultaneously with independent protocol selection for each input channel.

Serial protocols
UART (RS-232)
SPI
I ² C
I ² S
CAN
LIN
FlexRay

PicoScope displays the decoded data in the format of your choice: **in view**, **in window**, or both at once.

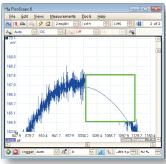
- In view format shows the decoded data beneath the waveform on a common time axis, with error frames marked in red. You can zoom in on these frames to look for noise or distortion on the waveform.
- In window format shows a list of the decoded frames, including the data and all flags and identifiers. 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 that the program will wait for before it lists the data.

Analog and digital low-pass filtering

Each input channel has its own digital low-pass filter with independently adjustable cut-off frequency from 1 Hz to the full $% \left({{\left[{{L_{\rm s}} \right]} \right]} \right)$

scope bandwidth. This enables you to reject noise on selected channels while viewing highbandwidth signals on the others.

An additional selectable analog bandwidth limiter on each input channel can be used to reject high frequencies that would otherwise cause aliasing.



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 Pico 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 rearm 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 10 milliseconds. The mask limit testing function can then scan through these waveforms to highlight any failed waveforms for viewing in the waveform buffer.

Advanced triggers

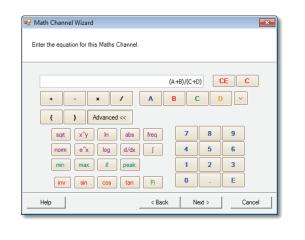
As well as the standard range of triggers found on most oscilloscopes, the PicoScope 6000 Series has a built-in set of advanced triggers to help you capture the data you need.

Simple Edge	Source	A	~	Threshold	O V	1
Advanced Edge	Pulse Direction	Negative Pulse	~			
Window	Condition	Greater than	~	Hysteresis	1.50 %	8t
Pulse Width						
Unterval Window Pulse Width				Time	0 s	-
Level Dropout						
Window Dropout				-		
Runt Logic						
	Trigger when	the pulse is longer t	nan the s	pecified time.		
				C	Help	Close

All triggering is digital, resulting in high threshold resolution with programmable hysteresis and optimal waveform stability.

Maths channels

With PicoScope 6 you can perform a variety of mathematical calculations on your input signals. You can calculate the sum, difference, product or inverse, or create your own custom function using standard arithmetic, exponential and trigonometric functions.



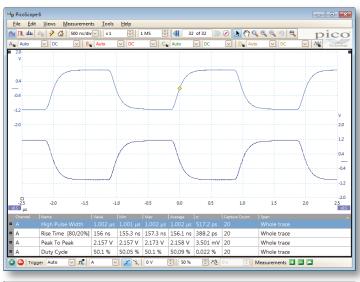
**g PicoScope 6 - [8 channels with maths.psdata]	
File Edit Views Messurements Tools Help	
🐅 TL dlu 👍 🤌 🟠 500 jashiw 🔍 x 1 😤 5.002 k5 🕃 🐗 300 of 100 🕼 🖉 🕵 😋 🔍 🔩	
	V 20 22 22 20 20 20 20 20 20 20 20 20 20
	20.1 20.1 20.1
🐨 Tripper Auto V 🖍 A V 🗶 50 % 🗧 🛝 01 🖶	Room model Roots

Automatic measurements

PicoScope allows you to automatically display a table of calculated measurements for troubleshooting and analysis.

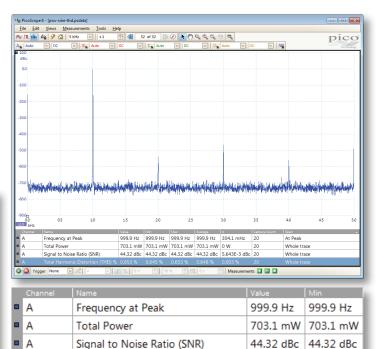
Using the built-in measurement statistics you can see the average, standard deviation, maximum and minimum of each measurement as well as the live value.

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	Min	Max	Average
	High Pulse Width	1.002 µs	1.001 µs	1.002 µs	1.002 µs
Α	Rise Time [80/20%]	156 ns	155.3 ns	157.3 ns	156.1 ns
Α	Peak To Peak	2.157 V	2.157 V	2.173 V	2.158 V
Α	Duty Cycle	50.1 %	50.05 %	50.1 %	50.09 %





0.645 %

11 spectrum mode measurements

High signal integrity

Most oscilloscopes are built down to a price; ours are built up to a specification.

Our engineers use careful front-end design and shielding to reduce noise, crosstalk and harmonic distortion. With decades of oscilloscope experience, we know how to design for optimal pulse response and bandwidth flatness.



Hardware acceleration

On some oscilloscopes, enabling deep memory has a penalty: the screen update rate slows down and the controls become unresponsive as the processor struggles to cope with the amount of data. Thanks to the hardware acceleration inside PicoScope deep-memory oscilloscopes, you can collect waveforms containing hundreds of millions of samples while keeping fast screen update rates and a responsive user interface. Dedicated hardware inside

> the oscilloscope processes multiple streams of data in parallel to construct the waveform that will be displayed on the screen. This is done far faster than any PC processor could manage, and together with USB 3.0 SuperSpeed data transfer eliminates any bottlenecks between the oscilloscope and the PC.

For example, the scope may be set to capture 100 000 000 samples but the PicoScope display window may be only 1000 pixels wide. In this case, the scope intelligently compresses the data into 1000 blocks of 100 000 samples each. Unlike simple decimation, which throws away most of the data, PicoScope hardware acceleration guarantees that you see any high-frequency details such as narrow glitches, even when the display is zoomed out.

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 6000 Series, high-end features such as mask limit testing, serial decoding, advanced triggering, measurements, math, XY mode, digital filtering, segmented memory and even a signal generator 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.

Probes included

Your PicoScope 6000 Series scope is supplied complete with four wideband, high-impedance probes. These probes have been designed for use with individual models of the PicoScope 6000 Series and are factory-compensated to match each scope's input characteristics. Each high-quality probe is supplied with a range of accessories for convenient and accurate high-frequency measurements.

A comprehensive range of alternative probes is also available.



Probe specifications	TA150	TA133				
Attenuation	10	D:1				
Resistance at probe tip	10 MΩ					
Capacitance at probe tip	9.5 pF					
Scope input impedance	1 ΜΩ					
Compatibility	PicoScope 6402C/D, PicoScope 6403C/D	PicoScope 6404C/D				
Bandwidth (3 dB)	350 MHz	500 MHz				
Rise time (10% to 90%)	1 ns	700 ps				
Compensation range	10 to	25 pF				
Safety standard	IEC/EN 61010-031					
Cable length	1.3	3 m				

Probe accessories included

TA133 and TA150

- Instruction manual
- Solid tip 0.5 mm
- Coding rings, 3 x 4 colors
- Ground lead 15 cm
- Ground spring 2.5 mm
- Trim tool
- Insulating cap 2.5 mm
- Sprung hook 2.5 mm

TA133 only

- Spring tip 0.5 mm
- Ground blade 2.5 mm
- 2 self-adhesive copper pads
- Protection cap 2.5 mm
- IC caps 0.5 to 1.27 mm pitch
- PCB adaptor kit 2.5 mm







PicoScope: The display can be as simple or as complex as you need. Begin with a single view of one channel, and then expand the display to include any number of live channels, math channels and reference 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: Filtering, offset, scaling, resolution enhancement, custom probes and bandwidth limiter.

> Auto setup button: Configures the timebase and voltage ranges for stable display of signals.

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

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

Signal generator: Generates standard signals or (on selected scopes) arbitrary waveforms. Includes frequency sweep mode.

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.

Zoom and pan tools: PicoScope allows a zoom factor of several million, which is necessary when working with the deep memory of the 6000 Series scopes. Either use the zoom-in, zoom-out and pan tools, or click and drag in the zoom overview window for fast navigation.

Math channels: Combine input channels and reference waveforms using simple arithmetic, or create custom equations with trigonometric and other functions.

Views: PicoScope is carefully designed to make the best use of the display area. 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.



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.

Ouick access to main controls, with advanced triggers in a pop-up window.

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 independently.

	PicoScope 6402C	PicoScope 6402D	PicoScope 6403C	PicoScope 6403D	PicoScope 6404C	PicoScope 6404D
VERTICAL						
Input channels						
Analog bandwidth (-3 dB)*		MHz	350		500	MHz
		±50 mV range)	(250 MHz on :			
Bandwidth limiter Rise time (10% to 90%, calculated)		switchable ′ range 1.8 ns)	20 MHz, s 1.0 ns (50 mV		25 MHz, s	
Input ranges (full scale)		· · · ·	anges (1 MΩ input)	· · · ·	0.7 ns (al in 7 ranges (50 Q i	
Input sensitivity			$1 M\Omega$ input),			
Input coupling			AC (1 M Ω) or DC	,	/ ulv at x 1 200111 (.	
Input couping		1 MO + 1% 15	pF, or $50 \Omega \pm 2\%$	2 (11122 01 30 22)	1 MΩ ± 1% 10	pE. or $50.0 + 2\%$
	±50	to ±200 mV input			±2 V	,
	±50	0 mV input range:	±2.5 V		±10 V (50	
Analog offset range	±1 \ ±2 \		±2.5 V ±2.5 V			Ω: ±4.5 V) Ω: ±3.5 V)
Analog onset range	±2 \ ±5 \			Ω: ±0.5 V)		$\Omega: \pm 0.5 V$
	±10		±20 V `	,	±30 V `	,
	±20	V "	±20 V		±20 V	
DC accuracy		100 1/4	3% of f			
Overvoltage protection	a an at DNC when		ground (1 MΩ inpu	its), 5.5 V RMS (50	0 \Q inputs)	
* Stated bandwidth is with supplied probes DYNAMIC PERFORMANCE	s or at DINC when :	20 22 impedance se				
Noise		200 uV RMS	(50 mV range)		320 µV RMS (50 mV range)
THD			3 typical		-54 dB	• /
SFDR			typical		55 dB	
Crosstalk		17 000:1 typi	ical at 20 MHz		5600:1 typic	al at 20 MHz
			at full bandwidth		560:1 typical at	
HORIZONTAL (TIMEBASE)						
Timebase ranges		1 r	ns/div to 5000 s/di	v (real-time sampli	ng)	
		50 ps/div	to 100 ns/div (equ		ing / ETS)	
Timebase accuracy Timebase ageing			±2 p 1 ppm p			
			i ppin p			
ACQUISITION ADC resolution		9 hits (up t	o 12 hits using coff	vere recolution on	hancomont)	
ADC resolution		8 Dits (up t	o 12 bits using softv 1 channel	5 GS/s	nancement)	
Maximum real-time sampling rate			2 channels 4 channels	2.5 GS/s** 1.25 GS/s		
Maximum ETS rate			50 GS/s (any nur	/		
Maximum streaming data rate (PicoScope 6)			10 M			
Maximum streaming data rate (SDK)			> 150 MS/s, stream			
			, PC-dependent, su			
Buffer size (shared between active channels)	256 MS	512 MS	512 MS	1 GS	1 GS	2 GS
Buffer size (streaming mode)	1	00 MIS in PicoScop	e software. Up to a		ry when using SDF	ς.
Max. buffer segments (using PicoScope 6)	250 000	500 000	10 (500 000	1 000 000	1 000 000	2 000 000
Max. buffer segments (using SDK) ** To achieve 2.5 GS/s sampling rate in 2-				1000000	1000000	2 000 000
TRIGGERING	channel mode, use		d channel C or D.			
Sources			Channels A	to D. AUX		
Trigger modes		None, sing	le, repeat, auto, rap		mory), ETS	
Advanced trigger types (real-time mode)	Edge, pulse width,		pulse width, dropou			ic level, runt pulse
Trigger types (ETS mode)			Rising edge,	falling edge		
Trigger sensitivity			SB accuracy up to f			
Trigger level		Adjus	stable over whole o		range	
Maximum pre-trigger capture			100% of ca			
Maximum post-trigger delay			4 billion			
Re-arm time		11.	Less than 1 µs on		ret	
Maximum trigger rate Trigger timing resolution		U	p to 10,000 wavefo 1 sample		I SL	
			r sample	period		
AUX TRIGGER INPUT		D	and RNC shared	with pofements -	k ipput	
AUX trigger connector type			anel BNC, shared v			
Trigger types Input characteristics		EC	dge, pulse width, dr 50 Ω ±1%, l		sic	
Bandwidth			25 N			
Threshold range			±1			
Overvoltage protection			±5 V (DC +			
				i to pourty		
REFERENCE CLOCK INPUT (SDK ONLY)				V DC coupled		
Clock input characteristics Frequency range			50 Ω, BNC, ±1 5, 10, 20, 25 MH			
Connector		Re	ear panel BNC, shar		ver	
Level			Adjustable th			
Overvoltage protection			±5			
01						

	PicoScope 6402C	PicoScope 6402D	PicoScope 6403C	PicoScope 6403D	PicoScope 6404C	PicoScope 6404D	
FUNCTION GENERATOR							
Standard signal frequency			DC to 2	0 MHz			
Standard output signals All models	Sine, square, triangle, DC						
D models only		Ramp,		f-sine, white noise	, PRBS		
Output frequency accuracy			Same as scope ti	,			
Output frequency resolution		A 11/ 1		5 Hz			
Output voltage adjustment		Offset adj	n combined output	±1 V voltage: ±2.5 v	4 V max. p-p) /		
DC accuracy			±1% of	full scale			
Connector type			Rear pa				
Output impedance			50				
Overvoltage protection			±5				
Sweep modes	Up, down, or dual, with selectable start/stop frequencies and increments						
Signal generator triggering	Scope, manual, or AUX input; programmable number of cycles from 1 to 1 billion						
ARBITRARY WAVEFORM GENERATOR (/	AWG)						
Buffer size		64 kS		64 kS		64 kS	
Sample rate	_	200 MS/s	_	200 MS/s	_	200 MS/s	
Resolution		12 bits		12 bits		12 bits	
Bandwidth		20 MHz		20 MHz		20 MHz	
PROBE COMPENSATION OUTPUT							
Impedance			600	Ω			
Frequency			1 kHz squ	lare wave			
Level			2 V p	ok-pk			
Overvoltage protection			±5 V (DC -	+ AC peak)			
SPECTRUM ANALYZER							
Frequency range	DC to 2	50 MHz	DC to 3	50 MHz	DC to 5	00 MHz	
Display modes			Magnitude, ave	rage, peak hold			
Windowing functions	Rectan	gular, Gaussian, tri			Hamming, Hann,	flat-top	
Number of FFT points		•	•	rom 128 to 1 048			
MATH CHANNELS							
MAIN CHANNELS		x+y, x−y, x*y, x/y,	xAv cart oxp lp	log abs norm si	an sin cos tan a	rccin	
Functions	arccos,	arctan, sinh, cosh,	tanh, freq, derivat	ive, integral, min,	max, average, pea	k, delay	
Operands		Input ch	annels A to D, refe	erence waveforms	, time, π	,	
AUTOMATIC MEASUREMENTS							
Scope mode	AC RM high pulse	S, true RMS, cycle width, low pulse w	vidth, maximum, m	ninimum, peak-to-p	eak, rise time and	quency, rising rate	
Spectrum mode		Frequency at p	eak, amplitude at א מוי א מוי אי מישר	peak, average amp D+N, SFDR, SINA	olitude at peak,		
Statistics				age, and standard			
		T IIIIIIIIII	i, maximum, avera				
SERIAL BUS DECODING							
Data formats		CAN,	LIN, I^2C, I^2S, UAH	RT/RS-232, SPI, FI	ехКау		
MASK LIMIT TESTING							
Statistics			Pass/fail, failure o	count, total count			
			Pass/fail, failure o	count, total count			
DISPLAY			Pass/fail, failure o				
DISPLAY		Digita	, Linear or		none		
DISPLAY Interpolation Persistence modes		Digita	, Linear or	sin(x)/x	none		
DISPLAY Interpolation Persistence modes GENERAL		Digita	Linear or al color, analog inte	sin(x)/x ensity, custom, or	none		
Statistics DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats			Linear or al color, analog into USB 3.0 (USB 3	sin(x)/x ensity, custom, or 2.0 compatible)		at	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats	С	omma-separated v	Linear or al color, analog inte USB 3.0 (USB 2 alues, tab-delimite	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG	, MATLAB 4 form	at	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement	C	omma-separated v 12 V D	Linear or al color, analog inte USB 3.0 (USB alues, tab-delimite C, 4 A max. AC a	sin(x)/x ensity, custom, or 2.0 compatible)	, MATLAB 4 form upplied		
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps)	C	omma-separated v 12 V D 170 x 255	Linear or al color, analog inte USB 3.0 (USB alues, tab-delimite C, 4 A max. AC ac 5 x 40 mm	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG	, MATLAB 4 form upplied 170 x 285	i x 40 mm	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps) Weight		omma-separated v 12 V D 170 x 255 1 kg (appro:	Linear or al color, analog int USB 3.0 (USB 3 ralues, tab-delimite C, 4 A max. AC a 5 x 40 mm x. 2 lb 3 oz)	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s	, MATLAB 4 form upplied 170 x 285 1.3 kg (appro	i x 40 mm x. 2 lb 14 oz)	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps) Weight Temperature range	Operating	omma-separated v 12 V D 170 x 255 1 kg (appro: g: 0 °C to 40 °C (2	Linear or al color, analog into USB 3.0 (USB 3 values, tab-delimite C, 4 A max. AC ac 5 x 40 mm x. 2 lb 3 oz) 20 °C to 30 °C for	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s stated accuracy).	, MATLAB 4 form upplied 170 × 285 1.3 kg (appro Storage: -20 °C to	5 x 40 mm x. 2 lb 14 oz) o +60 °C.	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps) Weight Temperature range Humidity range	Operating	omma-separated v 12 V D 170 x 255 1 kg (appro: g: 0 °C to 40 °C (2 iting: 5% to 80% R	Linear or al color, analog into USB 3.0 (USB alues, tab-delimite C, 4 A max. AC ac 5 x 40 mm x. 2 lb 3 oz) 20 °C to 30 °C for cH non-condensing	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s stated accuracy). 5. Storage: 5% to 9	, MATLAB 4 form upplied 170 x 285 1.3 kg (appro Storage: -20 °C to 5% RH non-condo	5 x 40 mm x. 2 lb 14 oz) o +60 °C.	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps) Weight Temperature range Humidity range Compliance	Operating	omma-separated v 12 V D 170 x 255 1 kg (appro: g: 0 °C to 40 °C (2 iting: 5% to 80% R	Linear or al color, analog into USB 3.0 (USB 3 alues, tab-delimite C, 4 A max. AC ac 5 x 40 mm x. 2 lb 3 oz) 20 °C to 30 °C for H non-condensing VD, RoHS, WEEE	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s stated accuracy). 5. Storage: 5% to 9 USA: FCC Part 1	, MATLAB 4 form upplied 170 x 285 1.3 kg (appro Storage: -20 °C to 5% RH non-condo	5 x 40 mm x. 2 lb 14 oz) o +60 °C.	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps) Weight Temperature range Humidity range Compliance Safety approvals	Operatin; Opera	omma-separated v 12 V D 170 x 255 1 kg (appro: g: 0 °C to 40 °C (2 iting: 5% to 80% R EU: EMC, L	Linear or al color, analog into USB 3.0 (USB 3 ralues, tab-delimite C, 4 A max. AC ac 5 x 40 mm x. 2 lb 3 oz) 20 °C to 30 °C for H non-condensing VD, RoHS, WEEE Designed to EN	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s stated accuracy). 5. Storage: 5% to 9 USA: FCC Part 1. 1 61010-1:2010	, MATLAB 4 form upplied 170 x 285 1.3 kg (appro Storage: -20 °C to 5% RH non-condo 5 Subpart B	5 x 40 mm x. 2 lb 14 oz) 5 +60 °C. ensing.	
DISPLAY Interpolation Persistence modes GENERAL PC connectivity Exported data formats Power requirement Dimensions (inc. connectors & end caps) Weight Temperature range Humidity range Compliance Safety approvals PC requirements	Operatin; Opera	omma-separated v 12 V D 170 x 255 1 kg (appro: g: 0 °C to 40 °C (2 iting: 5% to 80% R EU: EMC, L oft Windows XP, V	Linear or al color, analog into USB 3.0 (USB 3 ralues, tab-delimite C, 4 A max. AC ar 5 x 40 mm x. 2 lb 3 oz) 20 °C to 30 °C for H non-condensing VD, RoHS, WEEE Designed to EN Vindows Vista, W	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s stated accuracy). 5. Storage: 5% to 9 USA: FCC Part 1 61010-1:2010 indows 7, or Winc	, MATLAB 4 form upplied 170 x 285 1.3 kg (appro Storage: -20 °C to 5% RH non-condo 5 Subpart B lows 8 (not Windo	5 x 40 mm x. 2 lb 14 oz) o +60 °C. ensing.	
DISPLAY Interpolation Persistence modes GENERAL	Operating Opera Microso Simplified Chine	omma-separated v 12 V D 170 x 255 1 kg (appro: g: 0 °C to 40 °C (2 iting: 5% to 80% R EU: EMC, L oft Windows XP, V	Linear or al color, analog into USB 3.0 (USB 3 ralues, tab-delimite C, 4 A max. AC ar 5 x 40 mm x. 2 lb 3 oz) 20 °C to 30 °C for H non-condensing VD, RoHS, WEEE Designed to EN Vindows Vista, W pe 6, Windows SE inese, Czech, Dani	sin(x)/x ensity, custom, or 2.0 compatible) d, BMP, GIF, PNG daptor and cable s stated accuracy). 5. Storage: 5% to 9 USA: FCC Part 1 61010-1:2010 indows 7, or Winc DK and example pr sh, Dutch, English.	, MATLAB 4 form upplied 170 x 285 1.3 kg (appro Storage: -20 °C to 5% RH non-condo 5 Subpart B lows 8 (not Windo rograms , Finnish, French, C	5 x 40 mm x. 2 lb 14 oz) o +60 °C. ensing. ows RT) German, Greek,	

Model selector

Model	Bandwidth	Buffer size	Signal generator	Arbitrary waveform generator
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PicoScope 6402D	250 MHz	512 MS	✓	✓
PicoScope 6403C	250 MIL	512 MS	✓	
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