SDS1000X-E Series Super Phosphor Oscilloscope





Key Features

🜆 100 MHz, 200 MHz bandwidth models

- Two channel series have one 1 GSa/s ADC, four channel series have two 1 GSa/s ADCs. When all channels are enabled, each channel has a maximum sample rate of 500 MSa/s. When a single channel per ADC is active, it has sample rate of 1 GSa/s
- The newest generation of SPO technology
 - Waveform capture rate up to 100,000 wfm/s (normal mode), and 400,000 wfm/s (sequence mode)
 - Supports 256-level intensity grading and color display modes
 - Record length up to 14 Mpts
 - Digital trigger system
- Intelligent trigger: Edge, Slope, Pulse Width, Window, Runt, Interval, Time out (Dropout), Pattern
- Serial bus triggering and decoding (Standard), supports protocols IIC, SPI, UART, RS232, CAN, LIN
- Video trigger, supports HDTV
- Low background noisewith voltage scales from 500 μV/div to 10 V/div
- 10 types of one-button shortcuts, supports Auto Setup, Default, Cursors, Measure, Roll, History, Display/Persist, Clear Sweep, Zoom and Print
- Segmented acquisition (Sequence) mode, divides the maximum record length into multiple segments (up to 80,000), according to trigger conditions set by the user, with a very small dead time segment to capture the qualifying event.
- History waveform record (History) function, maximum recorded waveform length is 80,000 frames.
- Automatic measurement function for 38 parameters as well as Measurement Statistics, Zoom, Gating, Math, History and Reference functions
- ↓ 1 Mpts FFT
- Math and measurement functions use all sampled data points (up to 14 Mpts)
- Math functions (FFT, addition, subtraction, multiplication, division, integration, differential, square root)
- Preset key can be customized for user settings or factory "defaults"
- 4 Security Erase mode
- High Speed hardware based Pass/ Fail function
- MSO, 16 digital channels (four channel series only, option)
- Bode plot (four channel series only)
- Search and navigate (four channel series only)
- USB AWG module (four channel series only, option)
- USB WIFI adapter (four channel series only, option)
- Web Browser based control (four channel series only)
- ✓ Large 7 inch TFT -LCD display with 800 * 480 resolution
- Multiple interface types: USB Host, USB Device (USB -TMC), LAN Pass / Fail, Trigger Out
- Supports SCPI remote control commands

SDS1104X-E SDS1204X-E SDS1202X-E

Product overview

SIGLENT's new SDS1000X-E Super Phosphor Oscilloscopes feature two channel and four channel models. The two channel model is available with a 200 MHz analog bandwidth, a single ADC with a 1 GSa/s maximum sample rate, and a single memory module with 14 Mpts of sample memory. The four channel scope is available in 100 and 200 MHz models and incorporates two 1 GSa/s ADCs and two 14 Mpts memory modules. When all channels are enabled, each channel has sample rate of 500 MSa/s and a standard record length of 7 Mpts. When only a single channel per ADC is active, the maximum sample rate is 1 GSa/s and the maximum record length is 14 Mpts. For ease -of -use, the most commonly used functions can be accessed with its user- friendly front panel design.

The SDS1000X-E series employs a new generation of SPO (Super -Phosphor Oscilloscope) technology that provides excellent signal fidelity and performance. The system noise is also lower than similar products in the industry. It comes with a minimum vertical input range of 500 uV/div, an innovative digital trigger system with high sensitivity and low jitter, and a waveform capture rate of 400,000 frames/sec (sequence mode). The SDS1000X-E also employs a 256-level intensity grading display function and a color temperature display mode not found in other models in this class. SIGLENT's latest oscilloscope offering supports multiple powerful triggering modes including serial bus triggering. Serial bus decoding for IIC, SPI, UART, CAN, LIN bus types is included. The X-E models also include History waveform recording, and sequential triggering that enable extended waveform recording and analysis. Another powerful addition is the new 1 million point FFT math function that gives the SDS1000X-E very high frequency resolution when observing signal spectra. The new digital design also includes a hardware co-processor that delivers measurements quickly and accurately without slowing acquisition and front-panel response. The features and performance of SIGLENT's new SDS1000X-E cannot be matched anywhere else in this price class.

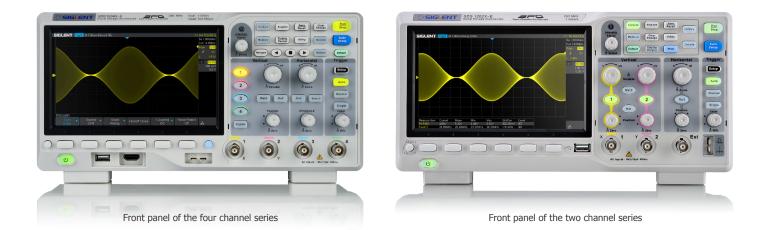
The four channel series includes even more functions, including: searching and navigating, on-screen Bode plot, 16 digital channels (Option), an external USB powered 25 MHz AWG module (Option), a USB WIFI adapter (Option), and an embedded application that allows remote control via web browser.

Models and key Specification

Model	SDS1104X-E	SDS1204X -E SDS1202X-E
Bandwidth	100 MHz	200 MHz
SamplingRate (Max.)	Two channel series have a single 1 GSa/s ADC, fou channels are enabled, each channel has a maximum spair is active, that channel has sample rate of 1 GSa/	sample rate of 500 MSa/s. When a single channel per
Channels	4 (four channel series) 2+EXT (two channel series)	
Memory Depth (Max.)	7 Mpts/CH (not interleave mode); 14 Mpts/CH (interleave mode)	
Waveform Capture Rate (Max.)	100,000 wfm/s (normal mode), 400,000 wfm/s (seque	ence mode)
Trigger Type	Edge, Slope, Pulse Width, Window, Runt, Interval, Dro	opout, Pattern, Video
Serial Trigger and decoder (Standard)	IIC, SPI, UART/RS232, CAN, LIN	
16 Digital Channels (four channel series only, option)	Maximum waveform capture rate up to 1 GSa/s, Record length up to 14 Mpts/CH	
USB AWG module (four channel series only, option)	One channel, 25 MHz, sample rate of 125 MHz, wave length of 16 kpts	
Bode plot (four channel series only)	Minimum start frequency of 10 Hz, minimum scan bandwith of 500 Hz, maximum scan bandwidth of 120 MHz (dependent on Oscilloscope and AWG bandwidth), 500 maximum scan frequency points	
USB WIFI adapter (four channel series only, option)	802.11b/g/b, WPA-PSK, the adapter must be supplied by Siglent to ensure working	
I/O	USB Host, USB Device, LAN, Pass/Fail, Trigger Out, Sb	ous (Siglent MSO)
Probe (Std)	4 pcs passive probe PP510	4/2 pcs passive probe PP215
Display	7 inch TFT -LCD (800x480)	
Weight	Four channel series: Without package 2.6 Kg; With pa Two channel series: Without package 2.5 Kg; With pa	

Function & Characteristics

7 inch TFT-LCD display and 10 one-button menus

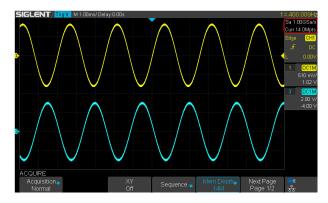


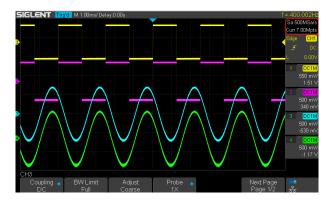
• 7 -inch TFT -LCD display with 800 * 480 resolution

• Most commonly used functions are accessible using 10 different one-button operation keys: Auto Setup, Default, Cursor, Measure, Roll, History, Persist, Clear Sweep, Zoom, Print

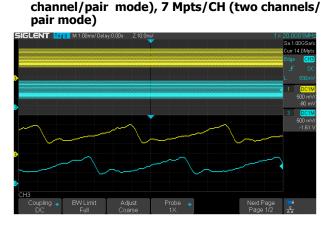
Function & Characteristics

When all channels are enabled, each channel has a maximum sample rate of 500 MSa/s. When a single channel per pair is active, that channel has sample rate of 1 GSa/s





The four channel series has two 1 GSa/s ADC chips (channel 1 and 2 share one, channel 3 and 4 share another), so that each channel can achieve sample rates up to 500 MSa/and work on bandwidths of 200 MHz when all channels are enabled.



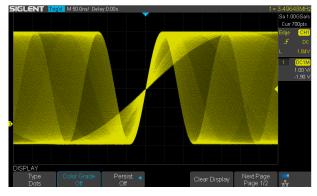
Record Length of Up to 14 Mpts (single

Using hardware-based Zoom technologies and max record length of up to 14 Mpts, users are able to oversample to capture for longer time periods at higher resolution and use the zoom feature to see more details within each signal.

Waveform Capture Rate Up to 400,000 wfm/s

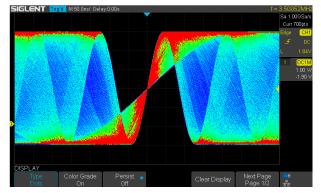


With a waveform capture rate of up to 400,000 wfm/s (sequence mode), the oscilloscope can easily capture the unusual or low-probability events.



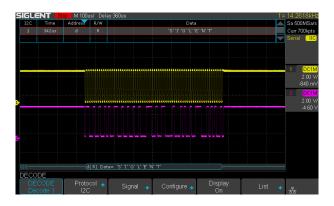
256 -Level Intensity Grading and Color Temperature Display

SPO display technology provides for fast refresh rates. The resulting intensity-graded trace is brighter for events that occur with more frequency and dims when the events occur with less frequency.



The color temperature display is similar to the intensity-graded trace function, but the trace occurrence is represented by different colors (color "temperature") as opposed to changes in the intensity of one color. Red colors represents the more frequent events, while blue is used to mark points that occur lest frequently.

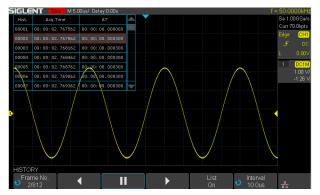
Serial Bus Decoding Function (Standard)



SDS1000X-E displays the decoding through the events list. Bus protocol information can be quickly and intuitively displayed in a tabular format.

Irue measurement to 14 M points

History Waveforms (History) Mode and Segmented Acquisition (Sequence)

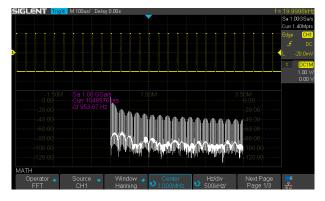


Playback the latest triggered events using the history function. Segmented memory collection will store trigger events into multiple (Up to 80,000) memory segments, each segment will store triggered waveforms and timestamp each frame.

SIGLENT Imp20 M1 00ms/ Delay 0.00s (= 99.990204 Siglest Siglest Siglest Siglest Um 14.0%pt Siglest Siglest Curr 14.0%pt Measure Item Current Mean Min Max Sid-Dev Count Measure Item Current Mean Min Max Sid-Dev Count PhPRI1 3.40V 3.97V 3.89V 3.40V 10.11mv 125 Freq11 9.00MHz 20.00MHz 20.20MHz 20.20MHz 125 2 Stoev[1] 1.20V 1.20V 1.20V 1.05mv 125 2

At any one timebase, SDS1000X-E can measure using all 14 M sample points. This ensures the accuracy of measurements while the math coprocessor decreases measurement time and increases ease-of-use.

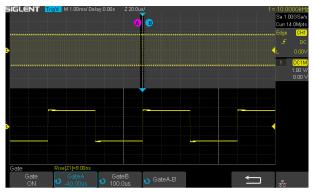
🜆 1 M points FFT



The new math co-processor enables FFT analysis of incoming signals using up to 1 M samples per waveform. This provides high frequency resolution with a fast refresh rate. The FFT function also supports a variety of window functions so that it can adapt to different spectrum measurement needs.

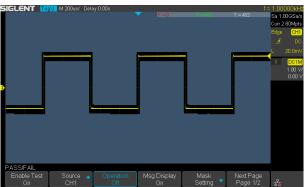
WWW.SIGLENT.COM

🜆 Gate and Zoom Measurement



Through Gate and Zoom measurement, the user can specify an arbitrary interval of waveform data analysis and statistics. This helps avoid measurement errors that can be caused by invalid or extraneous data, greatly enhancing the measurements' validity and flexibility.

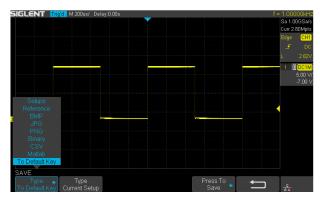
Hardware-Based High Speed Pass/ Fail function



The SDS1000X-E utilizes a hardware-based Pass/Fail function, performing up to 40,000 Pass / Fail decisions each second. Easily generate user defined test templates provide trace mask comparison making it suitable for long-term signal monitoring or automated production line testing.

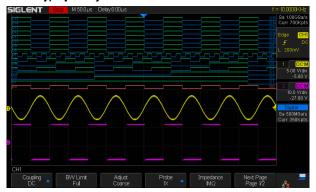
www.batterfly.com

Customizable Default Key



The current parameters of the oscilloscope can be preset to Default Key through the Save menu.

16 Digital Channels/MSO (four channel series only, option)



16 digital channels enables users to acquire and trigger on the waveforms then analyze the pattern, simultaneously with one instrument.

Search and Navigate (four channel series only)



The SDS1000X-E can search events specified by the user in a frame. It can also navigate by time (delay position) and historical frames.

Bode Plot (four channel series only)



SDS1000X-E can control the USB AWG module, control an independent SIGLENT SDG instrument, scan an object's amplitude and phase frequency response, and display the data as a Bode Plot. It can also show the result lists, and export the data to a USB disk.



USB WIFI Adapter (four channel series only, option)



USB WIFI Adapter

WiFi control of instrumentation can provide a convenient and safe method of configuring and collecting data. This new feature works with a SIGLENT approved WiFi adapter to provide wireless control and communications with SIGLENT 4 channel scopes. The adapter must be supplied by Siglent to ensure working.

USB 25 MHz AWG Module (four channel series only, option)



The four channel series supports a USB 25 MHz function/arbitrary waveform generator that is operated from the USB host connection. Functions include Sine, Square, Ramp, Pulse, Noise, DC and 45 built-in waveforms. The arbitrary waveforms can be accessed and edited by the SIGLENT EasyWave PC software.

Complete Connectivity



Back panel of the four channel series

SDS1000X -E supports USB Host, USB Device (USB -TMC), LAN(VXI -11), Pass/Fail and Trigger Out



Back panel of the two channel series

Web control (four channel series only)



With the new embedded web server, users can control the 4 channel scopes from a simple web page. This provides wonderful remote troubleshooting and monitoring capabilities.

Specifications

Acquire System	
Sampling Rate	1 GSa/s (single channel/pair), 500 MSa/s (two channels/pair)
Memory Depth	Max 14 Mpts/Ch (single channel/pair), 7 Mpts/Ch (two channels/pair)
Peak Detect	2 nsec (Four channel series)
	4 nsec (Two channel series)
Average	Averages:4, 16, 32, 64, 128, 256, 512, 1024
Eres	Enhance bits:0.5, 1.5, 2, 2.5, 3; Selectable
Waveform interpolation	Sin(x)/x, Linear

Input	
Channels	4 (Four channel series) 2+EXT (Two channel series)
Coupling	DC, AC, GND
Impedance	DC: $(1 \text{ M}\Omega \pm 2\%) \parallel (15 \text{ pF} \pm 2 \text{ pF})$ (Four channel series) DC: $(1 \text{ M}\Omega \pm 2\%) \parallel (18 \text{ pF} \pm 2 \text{ pF})$ (Two channel series)
Max.Input voltage	$1 \text{ M}\Omega \leq 400 \text{ Vpk(DC + Peak AC <=10 kHz)}$
CH to CH Isolation	DC-Max BW >40 dB
Probe attenuation	0.1X, 0.2X, 0.5X, 1X, 2X, 5X, 10X1000X, 2000X, 5000X, 10000X

Badwith (-3 dB)Distlog Statust-Statustion (-1000) Distloct Statustion (-1000) Distloct Status	Vertical System	
Vertical Scale (Probe 1X)500 µ/Vi v 10 V/div (1-25 sequence)Offset Range (Probe 1X)500 µ/V 150 mV: ± 2 VBadwidth Limit500 µ/V 150 mV: ± 2 0 VBadwidth Limit0MHz ±40%De 10% (BW): ± 1 dB10% 50% (BW): ± 2 dBBadwidth Flatness10% 50% (BW): ± 2 dB-3 dBLow Frequency Response (AC -3 dB)10 Hz (at input BNC)Anage57 DEV <0.5 division (<1 mV/div)	Bandwidth (-3 dB)	
Probata 500 μ² 100 m²: 2 V 500 μ² 100 μ² 100 500 μ² 100 Bandwidt Linit 00 H² 40% Angage C 10% (BW): ± 2 M² Angage D 10% (BW): ± 2 M² Angage 10% 50% (BW): ± 2 M² Angage D 10% (BW): ± 2 M² Angage 10% 50% (BW): ± 2 M² Angage 50% 50% (C)	Vertical Resolution	8-bit
Offset Range (Probe 1X)Is mV 1.5 V: ± 20 VBandwidth Limit20 MHz ±40%De 10% (BW): ± 1 dBBandwidth FlatnessDc 10% (BW): ± 2 dBbox Frequency Response (AC - 3 dB)50% 100% (BW): ± 2 dB/-3 dBLow Frequency Response (AC - 3 dB)51-DEV ≤0.5 division (<1 mV/div)	Vertical Scale (Probe 1X)	500 µV/div - 10 V/div (1-2-5 sequence)
Indext Price152 mV- 1.5 V: ± 20 VBandwidth Limit20 MHz ± 40%Pandwidth FlatnessDC 10% (BW): ± 1 dB10% - 50% (BW): ± 2 dB10% - 50% (BW): ± 2 dB50% 100% (BW): ± 2 dB50% 100% (BW): ± 2 dBLow Frequency Response (AC 3 dB)310 Hz (at input BNC)NoiseST-DEV ≤0.5 division (<1 mV/div)	Offect Dange (Drobe 1V)	500 μV- 150 mV: ± 2 V
Bandwidth Flatness DC- 10% (BW): ± 1 dB Bandwidth Flatness 10% 50% (BW): ± 2 dB bow 100% (BW): ± 2 dB-3 dB 50% 100% (BW): ± 2 dB-3 dB Low Frequency Response (AC -3 dB) 410 Hz (a tinput BNC) Mage 5T-DEV ≤0.5 division (<1 mV/div)	Unset Range (Probe 1X)	152 mV- 1.5 V: ± 20 V
Bandwidth Flatness 10% 50% (BW): ± 2 dB 50% 100% (BW): ± 2 dB/-3 dB Fore 000 (CD) (CD) (CD) (CD) (CD) (CD) (CD) (CD)	Bandwidth Limit	20 MHz ±40%
Frequency Response (AC - 3 dB) 50%- 100% (BW): + 2 dB/-3 dB Low Frequency Response (AC - 3 dB) ≤10 Hz (at input BNC) Arrow of the second se		DC- 10% (BW): ± 1 dB
Low Frequency Response (AC - 3 dB) ST-DEV division (<1 mV/div)	Bandwidth Flatness	10%- 50% (BW): ± 2 dB
Kit is a structure ST-DEV ≤0.2 division (<1 mV/div) ST-DEV ≤0.2 division (<2 mV/div)		50%- 100% (BW): + 2 dB/-3 dB
Noise ST-DEV ≤ 0.2 division (<2 mV/div)	Low Frequency Response (AC -3 dB)	≤10 Hz (at input BNC)
ST-DEV ≤ 0.1 division (≥2 mV/div) SFDR including harmonics ≥35 dB DC Gain Accuracy ≤ $43.0\%: 5 mV/div-10 V/div$ $24.0\%: ≤2 mV/div$ $44.0\%: ≤2 mV/div$ Offset Accuracy $4(1\%* 0ffset+1.5\%*8*div+2 mV): ≥2 mV/div$ $1(1\%* 0ffset+1.5\%*8*div+500 uV): ≤1 mv/div$		ST-DEV \leq 0.5 division (<1 mV/div)
SFDR including harmonics>35 dBDC Gain Accuracy\$43.0%: 5 mV/div-10 V/div\$44.0%: \$2 mV/divChfset Accuracy\$(1%* Offset+1.5%*8*div+2 mV): \$2 mV/div\$(1%* Offset+1.5%*8*div+2 mV): \$2 mV/div\$(1%* Offset+1.5%*8*div+500 uV): \$1 mv/divRisetimeTypical 1.8 ns (SDS1204X-E/SDS1202X-E)\$(100 A Composition of the section of	Noise	ST-DEV ≤0.2 division (<2 mV/div)
bC Gain Accuracy \$±3.0%: 5 mV/div-10 V/div \$±4.0%: \$2 mV/div \$±4.0%: \$2 mV/div bC Gain Accuracy \$±(1%* 0ffset+1.5%*8*div+2 mV): \$2 mV/div bC Gain Accuracy \$±(1%* 0ffset+1.5%*8*div+500 uV): \$1 mv/div bC		ST-DEV $\leq 0.1 \text{ division} (\geq 2 \text{ mV/div})$
DC Gain Accuracy ≤±4.0%: ≤2 mV/div Offset Accuracy ±(1%* Offset+1.5%*8*div+2 mV): ≥2 mV/div ±(1%* Offset+1.5%*8*div+2 mV): ≥2 mV/div ±(1%* Offset+1.5%*8*div+2 mV): ≥2 mV/div Risetime Typical 1.8 ns (SDS1204X-E/SDS1202X-E) Typical 3.5 ns (SDS1104X-E) Typical 3.5 ns (SDS1104X-E)	SFDR including harmonics	≥35 dB
Statistical		≤±3.0%: 5 mV/div-10 V/div
Offset Accuracy ±(1%* Offset+1.5%*8*div+500 uV): ≤1 mv/div Risetime Typical 1.8 ns (SDS1204X-E/SDS1202X-E) Typical 3.5 ns (SDS1104X-E)	DC Gain Accuracy	≤±4.0%: ≤2 mV/div
±(1%* Offset+1.5%*8*div+500 uV): ≤1 mv/div Risetime Typical 1.8 ns (SDS1204X-E/SDS1202X-E) Typical 3.5 ns (SDS1104X-E)	Offerst Assume of	±(1%* Offset+1.5%*8*div+2 mV): ≥2 mV/div
Risetime Typical 3.5 ns (SDS1104X-E)	Unset Accuracy	±(1%* Offset+1.5%*8*div+500 uV): ≤1 mv/div
Typical 3.5 ns (SDS1104X-E)	Risetime	Typical 1.8 ns (SDS1204X-E/SDS1202X-E)
Overshoot (500 ps Pulse) <10%		Typical 3.5 ns (SDS1104X-E)
	Overshoot (500 ps Pulse)	<10%

SDS1000X-E Series Digital Oscilloscope

Horizontal System	
Timebase Scale	1.0 ns/div-100 s/div
Channel Skew	<100 ps
Waveform Capture Rate	Up to 100,000 wfm/s (normal mode), 400,000 wfm/s (sequence mode)
Intensity grading	256 Levels
Display Format	Y -T, X -Y,Roll
Timebase Accuracy	±25 ppm
Roll Mode	50 ms/div-100 s/div (1-2-5 step)

Trigger System	
Trigger Mode	Auto, Normal, Single
	Internal: ±4.5 div from the center of the screen
Trigger Level	EXT: ±0.6 V (Two channel series)
	EXT/5: ±3 V (Two channel series)
Holdoff Range	80 ns- 1.5 s
Trigger Coupling	AC DC LFRJ HFRJ Noise RJ
	DC: Passes all components of the signal
Coupling Frequency Response	AC: Blocks DC components and attenuates signals below 8 Hz
couping requercy response	LFRJ: Blocks the DC component and attenuates the low-frequency components below 2 MHz
	HFRJ: Attenuates the high-frequency components above 1.2 MHz
	DC: Passes all components of the signal
Coupling Frequency Response	LFRJ: Blocks the DC component and attenuates the low-frequency components below 10 KHz
	HFRJ: Attenuates the high-frequency components above 500 KHz
components below 10 KHz	Internal: ±0.2 div
components below 10 KHz	EXT (Two channel series): ±0.4 div
	DC - Max BW 0.6 div
	EXT (Two channel series): 200 mVpp DC- 10 MHz
Trigger Sensitivity	300 mVpp 10 MHz - BW frequency
	EXT/5 (Two channel series): 1 Vpp DC – 10 MHz
	1.5 Vpp 10 MHz -BW frequency
Trigger Jitter	< 100 ps
Trigger Displacement	Pre-Trigger: 0 - 100% Memory
	Delay Trigger: 0 to 10,000 div
Edge Trigger	
Slope	Rising, Falling, Rising&Falling
Source	All channels/ EXT/ (EXT/5)/ AC Line (Two channel series) All channels/ AC Line (Four channel series)
Slope Trigger	
Slope	Rising, Falling
LimitRange	< , > , <> , ><
Source	All channels
TimeRange	2 ns- 4.2 s
Resolution	1 ns

Link Range<,>,<	Pulse Trigger	
SourceAll channelsPulse Range1 nsResolution1 nsVation TriagerWTSC, PAL, 720p/50, 720p/50, 1080p/50, 1080p/50, 1080p/50, 1080p/50, CustomSourceAll channelsSourceAll channelsSourceAll channelsWindow TriggerHost SourceWindow TriggerAusolute, RelativeSourceAlsolute, RelativeSourceAlsoluteImeRangeCSourceAlsoluteImeRangeAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsolute, NellSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSour	Polarity	+wid , -wid
SourceAll channelsPulse Range1 nsResolution1 nsVation TriagerWTSC, PAL, 720p/50, 720p/50, 1080p/50, 1080p/50, 1080p/50, 1080p/50, CustomSourceAll channelsSourceAll channelsSourceAll channelsWindow TriggerHost SourceWindow TriggerAusolute, RelativeSourceAlsolute, RelativeSourceAlsoluteImeRangeCSourceAlsoluteImeRangeAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsolute, NellSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSourceAlsoluteSour	Limit Range	< , > , <> , ><
Resolution 1 ns Video Trigger Video Trigger Signal Standard NC, PAL, 720p/S0, 720p/G0, 1080p/S0, 1080p/S0, 1080p/S0, 1080p/S0, Custom Source All channels Source All channels Trigger condition Line, Field Window Trigger Window Trigger Window Trigger Absolute, Relative Source All channels Linkt Range <,>,<>,><	Source	
Video TriggerSignal StandardNTSC, PAL, 720p/50, 720p/60, 1080p/50, 1080p/	Pulse Range	2 ns ~ 4.2 s
Signal StandardNTSC, PAL, 720p/S0, 720p/S0, 1080p/S0, 1080p/S	Resolution	1 ns
SoureAll chanelsSyncAny, SelectTrigger conditionLee, FieldWindow TriggerHoal Calcal C	Video Trigger	
SyncAny. SelectTrigger conditionLine, FieldWindow TyriggerAbsolute, RelativeSourceAl channelsInterval TriggerKising, FallingSourceAl channelsSourceAl channelsSourceAl channelsTime Range2, S, < > <	Signal Standard	NTSC, PAL, 720p/50, 720p/60, 1080p/50, 1080p/60, 1080i/50, 1080i/60, Custom
Trigger condition Line, Field Window Trigger Absolute, Relative Source Al channels Store Al channels Interval Trigger Singer, Raling, Rali	Source	All channels
Window TriggerWindow TrypeAbsolute, RelativeSourceAll channelsInterval TriggerSourceSlopeRelsin, FallingLinnt Range<,>,<<,>,<	Sync	Any, Select
Window TypeAbsolute, RelativeSourceAll channelsInterval TriggerSlopeRising, FallingLinit Range<,>,<<>,><	Trigger condition	Line, Field
SourceAll channelsInterval TriggerSlopeRising, FallingSurceAll channelsSourceAll channelsTime Range2 ns ~ 4.2 SBegle StateSourceInterval Signer StateSourceAll channelsSourceAll channelsSourceSourceAll channelsSource <t< td=""><td>Window Trigger</td><td></td></t<>	Window Trigger	
Interval Trigger Slope Risin, Falling Limit Range <,>,<<>,><	Window Type	Absolute, Relative
SlopeRising, FallingLinit Range<.>.<	Source	All channels
Link Range<,>,<>,><SourceAll chanelsTime Range2 ns ~ 4.2 sResolution1 nsDrout TriggerEdge, StateSourceAll chanelsSourceAll chanelsSourceSourceAll songe, FallingTime Range2 ns ~ 4.2 sResolution1 nsResolution1 nsResolution1 nsRut Trigger4xid , widValues<,>,<<>>SourceAll chanelsSourceNi d- widRut Trigger1 nsPolatiy+wid , widLink Range0 ns ~ 4.2 sSourceAll chanelsTime Range1 nsPattern Trigger1 nsPattern SettingIns (Auge, Source)Pattern SettingIvalid, Low, HighLogicAll chanelsSourceAll chanelsLink Range	Interval Trigger	
SourceAll chanelsTime Range2 ns ~ 4.2 sResolution1 nsDopotTriggerTimeout TypeEdge, StateSourceAll chanelsSourceRising, FallingTime Range2 ns ~ 4.2 sResolution1 nsPolarity+wid - widNumberPolarity- s < - <	Slope	Rising, Falling
Tine Range2 ns ~ 4.2 sResolution1 nsDropout TiggerTimeout TypeEdge, StateSourceAll chanelsSlopeRising, FallingTime Range2 ns ~ 4.2 sResolution2 ns ~ 4.2 sPolarity+wid, -widRut Tigger+wid, -widSourceAll chanelsSourceAll chanelsResolution< >, > <	Limit Range	< , > , <> , ><
Resolution Ins Dropout Trigger Edge, State Source All channels Slope Rising, Falling Time Range 2 ns ~ 4.2 s Resolution 1 ns Rut Trigger +wid, -wid Polarity +wid, -wid Source All channels Source All channels Source All channels Resolution 1 ns Polarity +wid, -wid Source All channels Source All channels Source Ins Pattern Trigger 2 ns ~ 4.2 s Pattern Trigger Insaling Pattern Setting Invalid, Low, High Logic ND, OR, NAND, NOR Source All channels Source All channels Source All channels Logic All channels Source All channels Logic ND, OR, NAND, NOR Source All channels Limit Range	Source	All channels
Dropout TriggerTimeout TypeEdge, StateSourceAll channelsSourceKising, FallingSlopeIsing, FallingTime Range2 ns ~ 4.2 sResolution1 nsRutt TriggerPolarity+wid, -widLimit Range< >, < <, ><	Time Range	2 ns ~ 4.2 s
Imeout TypeEdge, StateSourceAll channelsSourceAll channelsSlopeResing, FallingIme Range2 ns ~ 4.2 sResolution1 nsRut TriggerPolarity+wid, -widLinit Range< , > , < > , <	Resolution	1 ns
SourceAl channelsSourceRisin, FallingTime Range2 ns ~ 4.2 sResolution1 ns ResolutionNumerical Version Polarity+wid , -widPolarityMichanelsSourceAl channelsResolution1 nsPatern Frieger1 nsPatern StetingI nsPatern StetingIndia (Low, HighLogicND, OR, NAND, NORSourceAl channelsInit RangeJourceSourceJintenseSourceAl channelsLinit RangeSourceAl channelsSourceSourceJintenseSourceSourceJintenseSourceSourceJintenseSourceSourceJintenseSourceSourceJintenseSourceSourceJintenseSource	Dropout Trigger	
SlopeRising, FallingTime Range2 ns ~ 4.2 sResolution1 nsRutrigerPolarity+wid, -widNorce<, >, <, <, <	Timeout Type	Edge, State
Time Range2 ns ~ 4.2 sResolution1 nsRut TriggerPolarity+wid , -widPolarity+wid , -widSourceAll chanelsSource2 ns ~ 4.2 sResolution1 nsPattern Trigger-Pattern StettingInvalid, Low, HighLogicAND, NORSourceAll chanelsSourceAll chanelsLogicSourceSourceAll chanelsLimit RangeJi sSourceAll chanelsLimit RangeSourceLimit Range< > , < < > <	Source	All channels
Resolution1 nsResolution1 nsRut TriggerPolarity+wid , -widPolarity+wid , -widLimit Range< , > , < < , > <SourceAll channelsTime Range2 ns ~ 4.2 sResolution1 nsPattern TriggerPattern SettingNol , CN, NAND, NORSourceAll channelsSourceAll channelsSourceAll channelsLimit RangeSourceAll channelsSourceSourceJime RangeSourceSourceLimit RangeSource<	Slope	Rising, Falling
Runt TriggerPolarity+wid, -widLimit Range<,>,<>,<	Time Range	2 ns ~ 4.2 s
Polarity+wid , -widLimit Range< , > , <> , <	Resolution	1 ns
Linit Range<,>,<>SourceAll channelsTime Range2 ns ~ 4.2 sResolution1 nsPattern TriggerPattern SettingInvalid, Low, HighLogicAND, OR, NAND, NORSourceAll channelsLimit Range<,>,<<>><	Runt Trigger	
SourceAll channelsTime Range2 ns ~ 4.2 sResolution1 nsPattern TriggerPattern SettingInvalid, Low, HighLogicAND, OR, NAND, NORSourceAll channelsLimit Range<,>,<<>><	Polarity	+wid , -wid
Time Range2 ns ~ 4.2 sResolution1 nsPattern TriggerPattern SettingInvalid, Low, HighLogicAND, OR, NAND, NORSourceAll channelsLimit Range<,>,<<>,><	Limit Range	< , > , <> , ><
Resolution1 nsPattern TriggerPattern SettingInvalid, Low, HighLogicAND, OR, NAND, NORSourceAll channelsLimit Range<,>,<<>><	Source	All channels
Pattern Trigger Pattern Setting Invalid, Low, High Logic AND, OR, NAND, NOR Source All channels Limit Range <,>,<<>,><	Time Range	2 ns ~ 4.2 s
Pattern SettingInvalid, Low, HighLogicAND, OR, NAND, NORSourceAll channelsLimit Range<,>,<>,><	Resolution	1 ns
LogicAND, OR, NAND, NORSourceAll channelsLimit Range<,>,<>,><	Pattern Trigger	
Source All channels Limit Range <,>,<>,><	Pattern Setting	Invalid, Low, High
Limit Range<, >, <>, ><Time Range2 ns ~ 4.2 s	Logic	AND, OR, NAND, NOR
Time Range 2 ns ~ 4.2 s	Source	All channels
	Limit Range	< , > , <> , ><
Resolution 1 ns	Time Range	2 ns ~ 4.2 s
	Resolution	1 ns

Serial Trigger	
I2C Trigger	
Condition	Start, Stop, Restart, No Ack, EEPROM, 7 bits Address & Data, 10 bits Address & Data, Data Length
Source (SDA/SCL)	All channels
Data format	Hex
Limit Range	EEPROM: =, >, <
Data Length	EEPROM: 1 byte Addr & Data: 1 ~ 2 byte Data Length: 1 ~ 12 byte
R/W bit	Addr & Data: Read, Write, Do not care
SPI Trigger	
Condition	Data
Source (CS/CL/Data)	All channels
Data format	Binary
Data Length	4 ~ 96 bit
Bit Value	0, 1, X
Bit Order	LSB, MSB
UART/ RS232 Trigger	
Condition	Start, Stop, Data, Parity Error
Source (RX/TX)	All channels
Data format	Hex
Limit Range	=, >, <
Data Length	1 byte
Data Width	5 bit, 6 bit, 7 bit, 8 bit
Parity Check	None, Odd, Even
Stop Bit	1 bit, 1.5 bit, 2 bit
Idle Level	High, Low
Baud (Selectable)	600/1200/2400/4800/960019200/38400/57600/115200 bit/s
(Custom)	300 bit/s ~ 334000 bit/s
CAN Trigger	
Condition	All, Remote, ID, ID + Data, Error
Source	All channels
ID	STD (11 bit), EXT (29 bit)
Data Format	Hex
Data Length	1~2 byte
Baud Rate (Selectable)	5 k/10 k/20 k/50 k/100 k/125 k/250 k/500 k/800 k/1 M bit/s
Baud Rate (Custom)	5 kbit/s~1 Mbit/s
LIN Trigger	
Condition	Break, Frame ID, ID+Data, Error
Source	All channels
ID	1 byte
Data Format	Hex
Data Length	1 ~ 2 byte
Baud Rate (Selectable)	600/1200/2400/4800/9600/19200 bit/s
Baud Rate (Custom)	300 bit/s ~ 20 kbit/s

Serial Decoder		
I2C Decoder		
Signal	SCL, SDA	
Address	7 bits, 10 bits	
Threshold	-4.5 ~ 4.5 div	
List	1 ~ 7 lines	
SPI Decoder		
Signal	SCL,MISO, MOSI, CS *NOTE 2 channel scopes can only use 2 signal identifiers	
Edge Select	Rising, Falling	
Idle Level	Low, High	
Bit Order	MSB, LSB	
Threshold	-4.5 ~ 4.5 div	
List	1 ~ 7 lines	
UART/ RS232 Decoder		
Signal	RX, TX	
Data Width	5 bit, 6 bit, 7 bit, 8 bit	
Parity Check	None, Odd, Even	
Stop Bit	1 bit, 1.5 bit, 2 bit	
Idle Level	Low, High	
Threshold	-4.5 ~ 4.5 div	
List	1 ~ 7 lines	
CAN Decoder		
Signal	CAN_H, CAN_L	
Source	CAN_H, CAN_L, CAN_H-CAN_L	
Threshold	-4.5 ~ 4.5 div	
List	1 ~ 7 lines	
LIN Decoder		
LIN Specification Package Revision	Ver1.3, Ver2.0	
Threshold	-4.5 ~ 4.5 div	
List	1 ~ 7 lines	

SDS1000X-E Series Digital Oscilloscope

	All channels, Al	
Number of Measurements		I channels in Zoom, Math, All References, History
	Display 5 measurements at the same time	
Measurement Range	Screen region,	Gate region
Measurement Parameters	s (38 Types)	
٩	Max	Highest value in input waveform
٩	Min	Lowest value in input waveform
F	Pk-Pk	Difference between maximum and minimum data values
F	Ampl	Difference between top and base in a bimodal signal, or between max and min in an unimodal signal
1	Тор	Value of most probable higher state in a bimodal waveform
E	Base	Value of most probable lower state in a bimodal waveform
Ν	Mean	Average of all data values
(Cmean	Average of data values in the first cycle
Vertical (Voltage)	Stdev	Standard deviation of all data values
(Cstd	Standard deviation of all data values in the first cycle
١	VRMS	Root mean square of all data values
(Crms	Root mean square of all data values in the first cycle
F	FOV	Overshoot after a falling edge; (base-min)/Amplitude
F	FPRE	Overshoot before a falling edge; (max-top)/Amplitude
F	ROV	Overshoot after a rising edge; (max-top)/Amplitude
F	RPRE	Overshoot before a rising edge; (base-min)/Amplitude
L	Level@X	the voltage value of the trigger point
F	Period	Period for every cycle in waveform at the 50% level, and positive slope
F	Freq	Frequency for every cycle in waveform at the 50% level, and positive slope
	+Wid	Width measured at 50% level and positive slope
-	-Wid	Width measured at 50% level and negative slope
F	Rise Time	Duration of rising edge from 10-90%
F	Fall Time	Duration of falling edge from 90-10%
Horizontal (Time)	Bwid	Time from the first rising edge to the last falling edge, or the first falling edge to the last rising edge at the 50% crossing
-	+Dut	Ratio of positive width to period
-	-Dut	Ratio of negative width to period
Γ	Delay	Time from the trigger to the first transition at the 50% crossing
Т	Time@Level	Time from the trigger to each rising edge at the 50% crossing. When Statistics is Off, it shows the time from the trigger to the last rising edge at the 50% crossing. When Statistics is On, it shows the Current, Mean, Min, Max, Standard Deviation of time from the trigger to each rising edge at the 50% crossing in multiple frames (number = Count).
F	Phase	Calculate the phase difference between two edges
F	FRR	Time between the first rising edges of the two channels
F	FRF	Time from the first rising edge of channel A to the first falling edge of channel B
	FFR	Time from the first falling edge of channel A to the first rising edge of channel B
	FFF	Time from the first falling edge of channel A to the first falling edge of channel B
Delay L	LRR	Time from the first rising edge of channel A to the last rising edge of channel B
L	LRF	Time from the first rising edge of channel A to the last falling edge of channel B
L	LFR	Time from the first falling edge of channel A to the last rising edge of channel B
L	LFF	Time from the first falling edge of channel A to the last falling edge of channel B
S	Skew	Time of source A edge minus time of nearest source B edge

Measurement	
Cursors	Manual : Time X1, X2, (X1-X2), (1/ΔT) Voltage Y1, Y2, (Y1-Y2) Track: Time X1, X2, (X1-X2)
Statistics	Current, Mean, Min, Max, Stdev, Count
Counter	Hardware 6 bit counter (channels are selectable)

Math Function	
Operation	+ , - , * , / , FFT , d/dt , ∫dt , √
FFT window	Rectangular, Blackman, Hanning, Hamming, Flattop
FFT display	Full Screen, Split, Exclusive
Number of Decoders	2
USB AWG Module (four chan	nel series only, option)
Channel	1
Max. Output Frequency	25 MHz
Sampling Rate	125 MSa/s
Frequency Resolution	1 µHz
Frequency Accuracy	±50 ppm
Vertical Resolution	14-bits
AmplitudeRange	-1.5 ~ +1.5 V (50Ω)
	-3 ~ +3 V (High-Z)
Waveform Type	Sine, Square, Ramp, pulse, Noise, DC and 45 built-in waveforms
Output impedance	50 Ω±2%
Protection	Over-Voltage Protection, Current-Limiting Protection
Sine	
Frequency	1 μHz ~ 25 MHz
Offset Accuracy (10 kHz)	±(1%*Offset Setting Value +1 mVpp)
Amplitude flatness (10 kHz, 5 Vpp)	±0.3 dB
	DC ~ 1 MHz -60 dBc
SFDR	1 MHz ~ 5 MHz -55 dBc
	5 MHz ~ 25 MHz -50 dBc
HD	DC ~ 5 MHz -50 dBc
	5 MHz ~ 25 MHz -45 dBc
Square/Pulse	
Frequency	1 μHz ~ 10 MHz
Duty Cycle	1% ~ 99%
Rise/Fall time	< 24 ns (10% ~ 90%)
Overshoot (1 kHz,1 Vpp, Typical)	< 3% (typical 1 kHz, 1 Vpp)
Pulse Width	> 50 ns
Jitter	< 500 ps + 10 ppm
Ramp	
Frequency	1 μHz ~ 300 kHz
Linearity (Typical)	< 0.1% of Pk-Pk (Typical, 1 kHz, 1 Vpp, 100% Symmetry)
Symmetry	0% ~ 100% (Adjustable)

DC	
Offeet range	±1.5 V (50 Ω)
Offset range	±3 V (High-Z)
Accuracy	±(offset *1%+3 mV)
Noise	
Bandwidth	>25 MHz (-3 dB)
Arbitrary Wave	
Frequency	1 μHz ~ 5 MHz
Wave Length	16 kpts
Sampling Rate	125 MSa/s
Lead in	EasyWave and U-Disk
Digital Channels (four channels	el series only, option)
No. of Channels	16
Max. Sampling Rate	1 GSa/s
Memory Depth	14 Mpts/CH
Min. Detectable Pulse Width	4 ns
Level Group	D0~D7, D8~D15
Level Range	-3 V ~ 3 V
Logic Type	TTL, CMOS, LVCMOS3.3, LVCMOS2.5, custom
Skew[2]	D0~D15: ±1 sampling interval Digital to Analog: ± (1 sampling interval +1 ns)
I/O	
Standard	USB Host, USB Device, LAN, Pass/Fail, Trigger Out
Pass/Fail	3.3 V TTL Output
Display (Screen)	
Display Type	7-inch TFT LCD
Display Resolution	800×480
Display Color	24 bit
Contrast (Typical)	500:1
Backlight	300 nit
Range	8 x 14 divisions
Display (Waveform)	
Display Mode	Dot, Vector
Persist Time	Off, 1 Sec, 5 Sec, 10 Sec, 30 Sec, Infinite
Color Display	Normal, Color
Screen Saver	1 min, 5 min, 10 min, 30 min, 1 hour, Off
Language	Simplified Chinese, Traditional Chinese, English, French, Japanese, Korean, German, Russian, Italian, Portuguese

Environments	
Temperature	Operating: $10^{\circ}C \sim +40^{\circ}C$
	Non-operating: -20° C ~ $+60^{\circ}$ C
Humidity	Operating: 85% RH, 40 $^\circ\!\!\mathbb{C}$, 24 hours
	Non-operating: 85% RH, $65^\circ\!\!\mathbb{C}$, 24 hours
Height	Operating: ≤3000 m
	Non-operating: ≤15,266 m
Electromagnetic Compatibility	2004/108/EC)
	Execution Standard EN 61326-1:2006
	EN 61000-3-2:2006 + A2:2009, EN 61000-3-3:2008
Safety	2006/95/EC
Execution Standard EN 61010-1:2010/ EN 61010-2-030:2010	

Power Supply		
Input Voltage	100 ~ 240 VAC, CAT II, Auto selection	
Frequency	50/60/400 Hz	
Power	25 W Max	
Mechanical (Four channel series)		
	Length: 312 mm	
Dimensions	Width: 132.6 mm	
	Height: 151 mm	
Weight	N.W: 2.6 kg; G.W: 3.8 kg	

Mechanical (Two channel series)		
Dimensions	Length: 312 mm	
	Width: 134 mm	
	Height: 150 mm	
Weight	N.W: 2.5 Kg; G.W: 3.5 Kg	

Probes and Accessories

Probe	Picture	Model	Description
Passive	PB470		Bandwidth: 70 MHz, 1X/10X, 1M/10 Mohm, 300 V/600 V
	PP510		Bandwidth: 100 MHz, 1X/10X, 1M/10 Mohm,300 V/600 V
	PP215		Bandwidth: 200 MHz, 1X/10X, 1M/10 Mohm, 300 V/600 V
Current Probe	CP4020		Bandwidth: 100 KHz, Max. continuous current: 20 Arms, Peak current: 60 A Switch Ratio: 50 mV/A, 5 mV/A, Accuracy: 50 mV/A (0.4 A-10 Apk) \pm 2%, 5 mV/A (1 A-60 Apk) \pm 2%, 9 V battery source
	CP4050		Bandwidth: 1 MHz, Max. continuous current: 50 Arms, Peak current: 140 A Switch Ratio: 500 mV/A, 50 mV/A Accuracy: 500 mV/A (20 mA-14 ApK) \pm 3% \pm 20 mA , 50 mV/A (200 mA- 100 ApK) \pm 4% \pm 200 mA, 50 mV/A (100 A-140 ApK) \pm 15% max, 9V battery source
	CP4070		Bandwidth: 150 KHz, Max. continuous current: 70 Arms, Peak current: 200 A Switch Ratio: 50 mV/A, 5 mV/A, Accuracy: 50 mV/A (0.4 A-10 ApK) \pm 2%, 5 mV/A (1 A-200 ApK) \pm 2%, 9V battery source
	CP4070A		Bandwidth: 300 KHz, Max. continuous current: 70 Arms, Peak current: 200 A Switch Ratio: 100 mV/A, 10 mV/A, Accuracy: 100 mV/A (50 m A-10 ApK) \pm 3% \pm 50 mA , 10 mV/A (500 mA-40 ApK) \pm 4% \pm 50 mA, 10 mV/A (40 A-200 ApK) \pm 15% max, 9 V battery source
	CP5030		Bandwidth: 50 MHz, Max. continuous current: 30 Arms, Peak current: 50 A Switch Ratio: 100 mV/A, 1 V/A, Accuracy: 1 V/A (\pm 1% \pm 1 mA), 100 mV/A (\pm 1% \pm 10 mA), DC 12 V/ 1.2 A power adapter
	СР5030А		Bandwidth: 100 MHz, Max. continuous current: 30 Arms, Peak current: 50 A Switch Ratio: 100 mV/A, 1 V/A, Accuracy: 1 V/A (\pm 1% \pm 1 mA), 100 mV/A (\pm 1% \pm 10 mA), DC 12V/1.2A power adapter
	CP5150		Bandwidth: 12 MHz, Max. continuous current: 150 Arms, Peak current: 300 A Switch Ratio: 100 mV/A, 10 mV/A, Accuracy: 100 mV/A (\pm 1% \pm 10 mA), 10 mV/A (\pm 1% \pm 100 mA), DC 12 V/1.2 A power adapter
	CP5500		Bandwidth: 5 MHz, Max. continuous current: 500 Arms, Peak current: 750 A Switch Ratio: 100 mV/A, 10 mV/A, Accuracy: 100 mV/A (\pm 1% \pm 10 mA), 10 mV/A (\pm 1% \pm 100 mA), DC 12 V/1.2 A power adapter
Differential Probe	DPB4080		Bandwidth: 50 MHz, Differential Range: 800 V (DC + Peak AC), 100 X/200 X/500 X/1000 X, Accuracy: ±1%, DC 9 V/1 A power adapter

Probe	Picture	Model	Description
Differential Probe	DPB5150		Bandwidth: 70 MHz, Differential Range: 1500 V (DC + Peak AC),50 X/500 X Accuracy: ±2%, DC 5 V/1 A USB adapter
	DPB5150A		Bandwidth: 100 MHz, Differential Range: 1500 V (DC + Peak AC), 50X/500X , Accuracy: ±2% DC 5 V/1 A USB adapter
	DPB5700		Bandwidth: 70 MHz, Differential Range: 7000 V (DC + Peak AC), 100X/1000X , Accuracy: ±2%, DC 5 V/1 A USB adapter
	DPB5700A		Bandwidth: 100 MHz Differential Range: 7000 V (DC + Peak AC), 100X/1000X Accuracy: ±2% DC 5 V/1 A USB adapter
High Voltage	HPB4010		Bandwidth: 40 MHz Differential Range: DC 10 KV, AC (rms): 7 KV (sine), AC (Vpp): 20 KV (Pulse) 1000X Accuracy: ≤3%
Isolated front end	ISFE		The USB Device interface allows a connection into the GPIB interface. USB-GPIB adapter allows the oscilloscope to easily send and receive commands through the GPIB. USB follows the USB2.0 specification. GPIB follows the IEEE488.2 standard.
Demo Board	STB-3		Output signals include square waves, sine, AM, fast edge , pulse, PWM, I2C, CAN, LIN etc. Used in teaching and demonstrations.
USB AWG Module	SAG1021	SAG1021 saw oran Management water water S SIGLENT	Output Sine, Square, Ramp, pulse, Noise, DC and 45 built-in waveforms. The arbitrary waveforms can be accessed and edited by the EasyWave PC software

SDS1000X-E Series Digital Oscilloscope

Ordering information			
Product Name	SDS1000X-E Series Digital Oscilloscope		
	SDS1104X-E 100 MHz Four Channels		
	SDS1204X-E 200 MHz Four Channels		
	SDS1202X-E 200 MHz Two Channels		
	USB Cable -1		
	Quick Start -1		
Standard Accessories	Passive Probe -4/2		
	Certification -1		
	Power Cord -1		
	16 Channels MSO Software (four channel series only)	SDS1000X-E-16LA	
	16 Channels Logic Analyzer (four channel series only)	SLA1016	
	AWG Software (four channel series only)	SDS1000X-E-FG	
	USB AWG Module Hardware (four channel series only)	SAG1021	
	WIFI Software (four channel series only)	SDS1000X-E-WIFI	
Optional Accessories	USB WIFI Adapter (four channel series only)	TL_WN725N	
optional Accessories	Isolated Front End	ISFE	
	STB Demo Source	STB-3	
	High Voltage Probe	HPB4010	
	Current Probes	CP4020/CP4050/CP4070/CP4070A/CP5030/CP5030A/ CP5150/CP5500	
	Differential Probes	DPB4080/DPB5150/DPB5150A/DPB5700/DPB5700A	

SDS1000X-E Series

Super Phosphor Oscilloscope



About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, function/arbitrary waveform generators, digital multimeters, DC power supplies, spectrum analyzers, isolated handheld oscilloscopes and other general purpose test instrumentation. Since its first oscilloscope, the ADS7000 series, was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

Headquarter:

SIGLENT TECHNOLOGIES CO., LTD. Add: Bldg No.4 & No.5, Antongda Industrial Zone, 3rd Liuxian Road, Bao'an District, Shenzhen, 518101, China. Tel: + 86 755 3661 5186 Fax: + 86 755 3359 1582 Email: sales@siglent.com; Website: http://www.siglent.com/ens/

USA:

SIGLENT Technologies America, Inc 6557 Cochran Rd Solon, Ohio 44139 Tel: 440-398-5800 Toll Free: 877-515-5551 Fax: 440-399-1211 Email: info@siglent.com Website: www.siglentamerica.com

Europe:

SIGLENT TECHNOLOGIES EUROPE GmbH ADD: Liebigstrasse 2-20, Gebaeude 14, 22113 Hamburg Germany Tel: +49(0)-819-95946 Fax: +49(0)-819-95947 Email: info-eu@siglent.com Website: www.siglenteu.com

www.batterfly.com

Follow us on Facebook: SiglentTech

