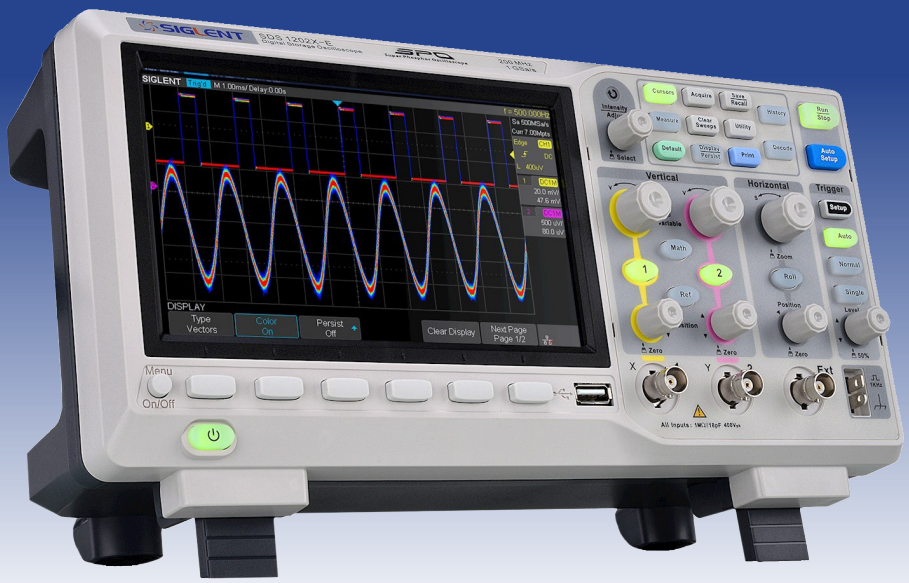
Wavecom Instruments

SDS-1000X-E

Super Phosphor Oscilloscopes



Contact us

South Australia
257 Grange Road
Findon, SA 5023
P: +61 08 8243 3500
F: +61 08 8243 3501
E: sales@wavecom.com.au

Victoria
Suite 8, 79-83 High Street,
Kew, VIC 3101
P: +61 08 8243 3500
F: +61 08 8243 3501
E: sales@wavecom.com.au

Western Australia
Unit 2/17 Casino Street,
Welshpool, WA 6016
P: +61 08 9353 1943
F: +61 08 9353 4319
E: saleswa@wavecom.com.au

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WAVECOM INSTRUMENTS

SDS1000X-E

Super Phosphor Oscilloscopes

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 also included. The X-E models also feature 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.

Features

- The newest generation of SPO technology
  - Waveform capture rate up to 100,000 wfm/s (normal mode), and 400,000 wfm/s (sequence mode)
  - Record length up to 14 Mpts
  - Digital trigger system
- Intelligent trigger options, serial bus triggering, video triggering
- 10 types of one-button shortcuts, supports Auto Setup, Default, Cursors, Measure, Roll, History, Display/ Persist, Clear Sweep, Zoom and Print
- High Speed hardware based Pass/ Fail function
- Large 7 inch TFT -LCD display with 800 * 480 resolution
- Supports SCPI remote control commands
- Supports Multi-language display and embedded online help

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SDS1000X-E

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Specifications

Model	SDS1104X - E	SDS1204X - E	SDS1202X - E
Bandwidth	100 MHz	200 MHz	200 MHz
Channels	4	4	2 + EXT
Real Time Sampling Rate	Two channel series have a single 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 pair is active, that channel has sample rate of 1 GSa/s		
Capture Rate	100,000 Waveforms/s (standard) - 400,000 Waveforms/s (sequence mode)		
Memory Depth	7Mpts/CH (standard) 14Mpts/CH (Interleave Mode)		
Bode Plot	Minimum start frequency of 10 Hz Scan Bandwidth Range from 500 Hz to 120MHz (dependent on Oscilloscope and AWG bandwidth) 500 maximum scan frequency points		N/A
Trigger Types	Edge, Slope, Pulse Width, Window, Runt, Interval, Dropout, Pattern, Video		
Serial Trigger and Decoder	IIC, SPI, UART/RS232, CAN, LIN		
Interface Options	USB Host, USB Device, LAN, Pass/Fail, Trigger Out, Sbus (Siglent MSO)		
Display	7 inch TFT -LCD (800x480)		
Weight	2.6 Kg		2.5 Kg

Contents

- ◊ Oscilloscope
- ◊ USB Cable
- ◊ Quick Start Guide
- ◊ Passive Probe - 4/2
- ◊ Certification
- ◊ Power Cord

Ordering Information

◊ Siglent 100MHz 4 Channel Super Phosphor Oscilloscope	SDS1104X-E
◊ Siglent 200MHz 4 Channel Super Phosphor Oscilloscope	SDS1204X-E
◊ Siglent 200MHz 2 Channel Super Phosphor Oscilloscope	SDS1202X-E

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