

# Wavecom



# SDS 1000X-U

## *Super Phosphor Oscilloscopes*

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# SDS 1000X-U

## Super Phosphor Oscilloscopes

### Overview

SIGLENT's new SDS1104X-U 4 channel 100MHz bandwidth Super Phosphor Oscilloscope features a sample rate of up to 1 GSa/s and a standard record length of 14 Mpts. For ease-of-use, the most commonly used functions can be accessed with its user-friendly front panel design.

The SDS1104X-U employs the well-known Super -Phosphor Oscilloscope (SPO) technology that provides excellent signal fidelity and performance. It comes with an innovative digital trigger system with high sensitivity and low jitter, and a waveform capture rate of 400,000 frames/sec in sequence mode.

The SDS1104X-U 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, and LIN bus types are included. The X-U models also include History waveform recording and sequential triggering that enable extended waveform recording and analysis. Another powerful addition is the new 128k point FFT math function that gives the SDS1104X-U very high frequency resolution when observing signal spectra. The digital design includes a hardware co-processor that delivers measurements quickly and accurately without slowing acquisition and front-panel response. SDS1104X-U also supports searching and navigating. The features and performance of SIGLENT's new SDS1104X-U cannot be matched anywhere else in this price class

### Features

- ◊ 100MHz bandwidth
- ◊ Real-time sampling rate up to 1 GSa/s
- ◊ Waveform capture rates up to 100,000 wfm/s (normal mode) and 400,000 wfm/s (sequence mode)
- ◊ Supports 256-level intensity grading and color temperature 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, CAN, LIN
- ◊ Video trigger, supports HDTV
- ◊ 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
- ◊ 128k pts FFT, supports Peaks and Markers
- ◊ 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"
- ◊ Security Erase mode
- ◊ High Speed hardware-based Pass/ Fail function
- ◊ Search and navigate
- ◊ 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
- ◊ VXI-11+SCPI, Telnet (Port 5024) +SCPI and Socket (Port 5025) +SCPI programming over LAN
- ◊ Supports Multi-language display and embedded online

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### Specifications

<b>Bandwidth</b>	100 MHz
<b>Sample Rate</b>	1 GSa/s (One channel), 500 MSa/s(Two channels), 250 MSa/s(Four channels)
<b>Channels</b>	4
<b>Memory Depth</b>	14 Mpts
<b>Waveform Capture Rate</b>	100,000 wfm/s (normal mode), 400,000 wfm/s (sequence mode)
<b>Trigger Type</b>	Edge, Slope, Pulse Width, Window, Runt, Interval, Dropout, Pattern, Video
<b>Serial Trigger and Decoder</b>	IIC, SPI, UART, CAN, LIN
<b>Interface Options</b>	USB Host, USB Device, LAN, Pass/Fail, Trigger Out
<b>Probe</b>	4 pcs passive probe PP510
<b>Display</b>	7-inch TFT-LCD (800x480)
<b>Weight</b>	2.6 kg

### Contents

- ◇ Siglent SDS1104X-U Oscilloscope
- ◇ 4 x 100MHz probes
- ◇ Guarantee Card
- ◇ Power Cord
- ◇ USB Cable
- ◇ Quick Start Guide

### Ordering Information

◇ Siglent SDS 1104X-U Super Phosphor Oscilloscope

(SDS-1104X-U)

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