

SDS2000X Series Super Phosphor Oscilloscope



SIGLENT's SDS2000X Series Super Phosphor Oscilloscopes are available in bandwidths of

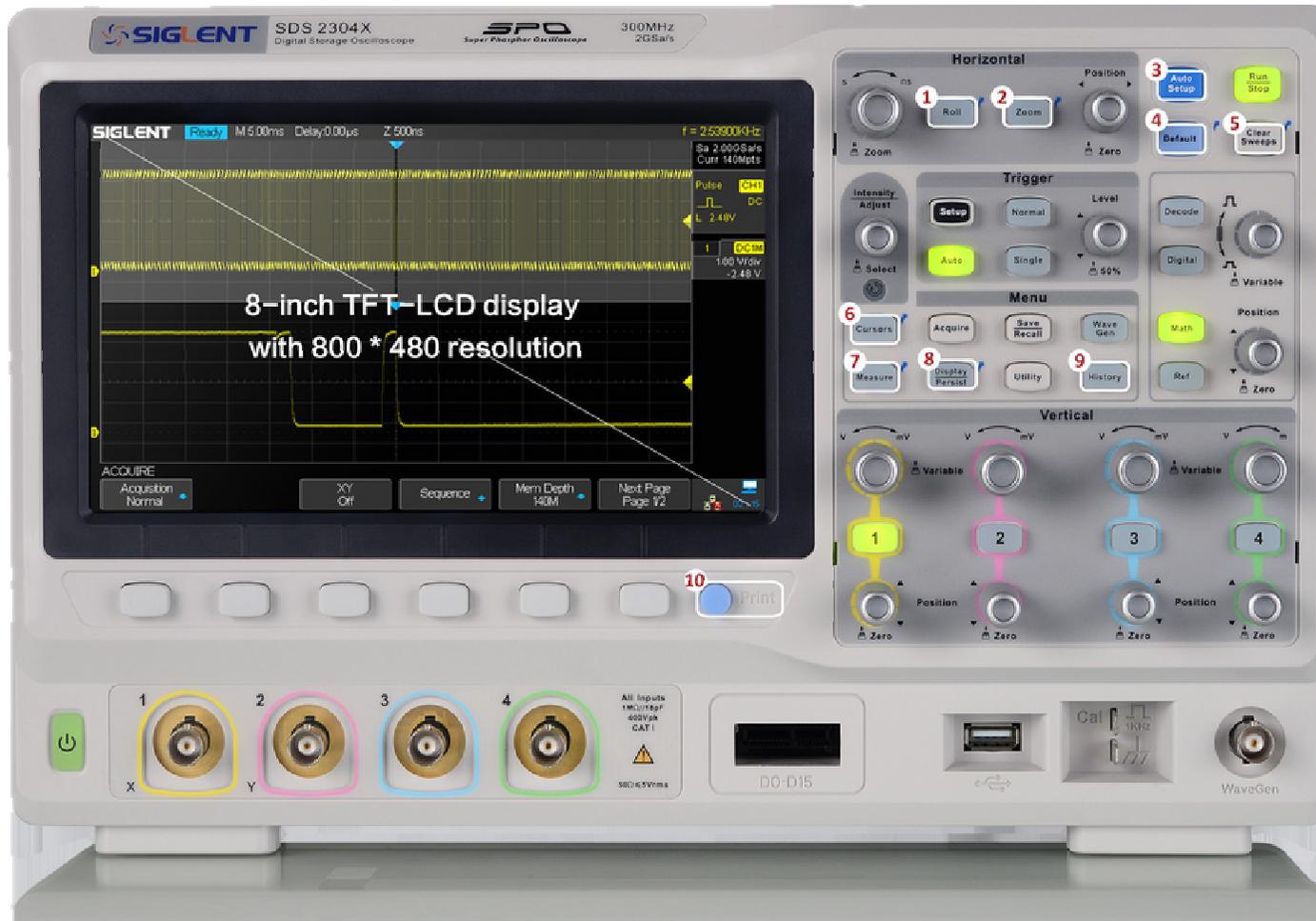
70 MHz, 100 MHz, 200 MHz and 300 MHz,

Maximum Sample Rate of 2 GSa/s,

and come with a maximum record length of 140 Mpts.

The most commonly used functions can be accessed with its user-friendly one-button design.

The SDS2000X series employs a new generation of SPO technology. It has an innovative digital trigger system with high sensitivity and low jitter, and a maximum waveform capture rate of 140,000 wfm/s (normal mode), up to 500,000 wfm/s (sequence mode). It also employs the common 256-level intensity grading display function but also a color temperature display mode. The trigger system supports multiple powerful triggering modes including serial bus triggering, History waveform recording and sequence acquisition allow for extended waveform records to be captured, stored, and analyzed. An impressive array of measurement and math capabilities, options for a built-in 25 MHz Arbitrary Waveform Generator, 16 digital channels (MSO), as well as serial decoding are also features of the SDS2000X.

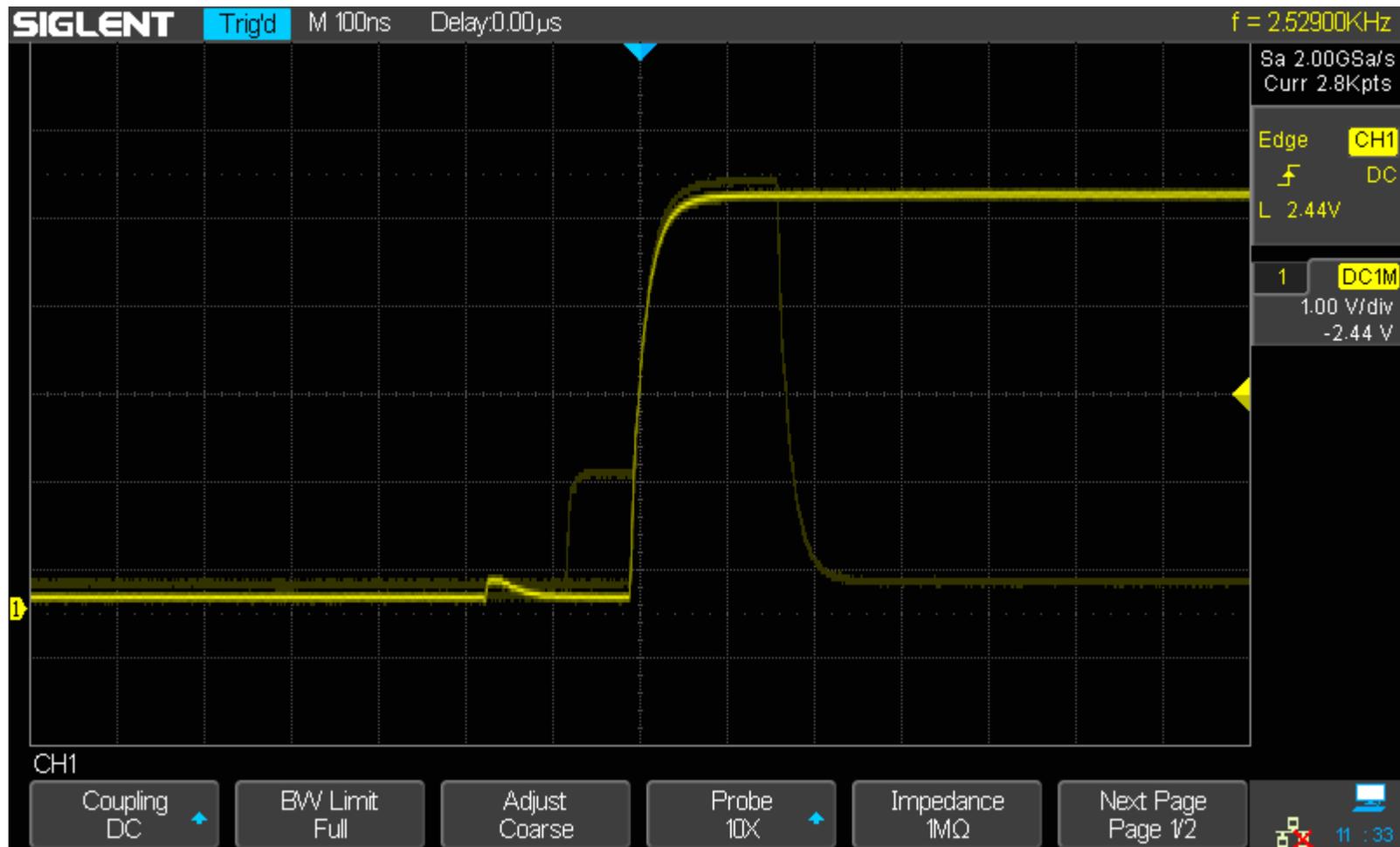


8-inch TFT-LCD display with 800 * 480 resolutions

Most commonly used functions are accessible using 10 different one-button operation keys: Auto Setup, Default, Cursors, Measure, Roll, History, Display/Persist, Clear Sweeps, Zoom and Print

Supports auto detection of 10X probe with read-out port (200 MHz and 300 MHz versions only)

Waveform Capture Rate up to 500,000 wfm/s



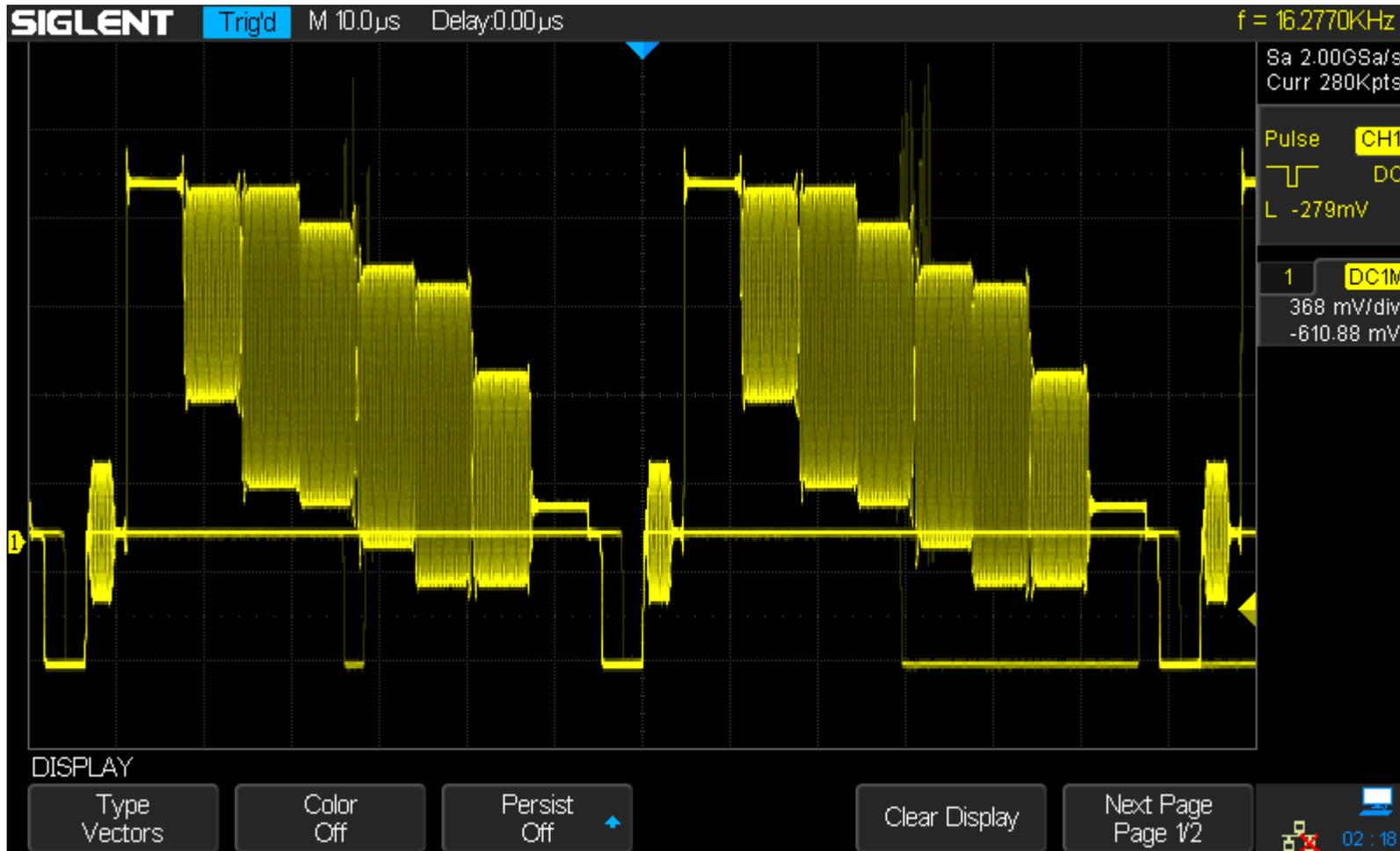
With a waveform capture rate of up to 500,000 wfm/s (sequence mode), the oscilloscope can easily capture the unusual or small probability events

Record Length of up to 140 Mpts



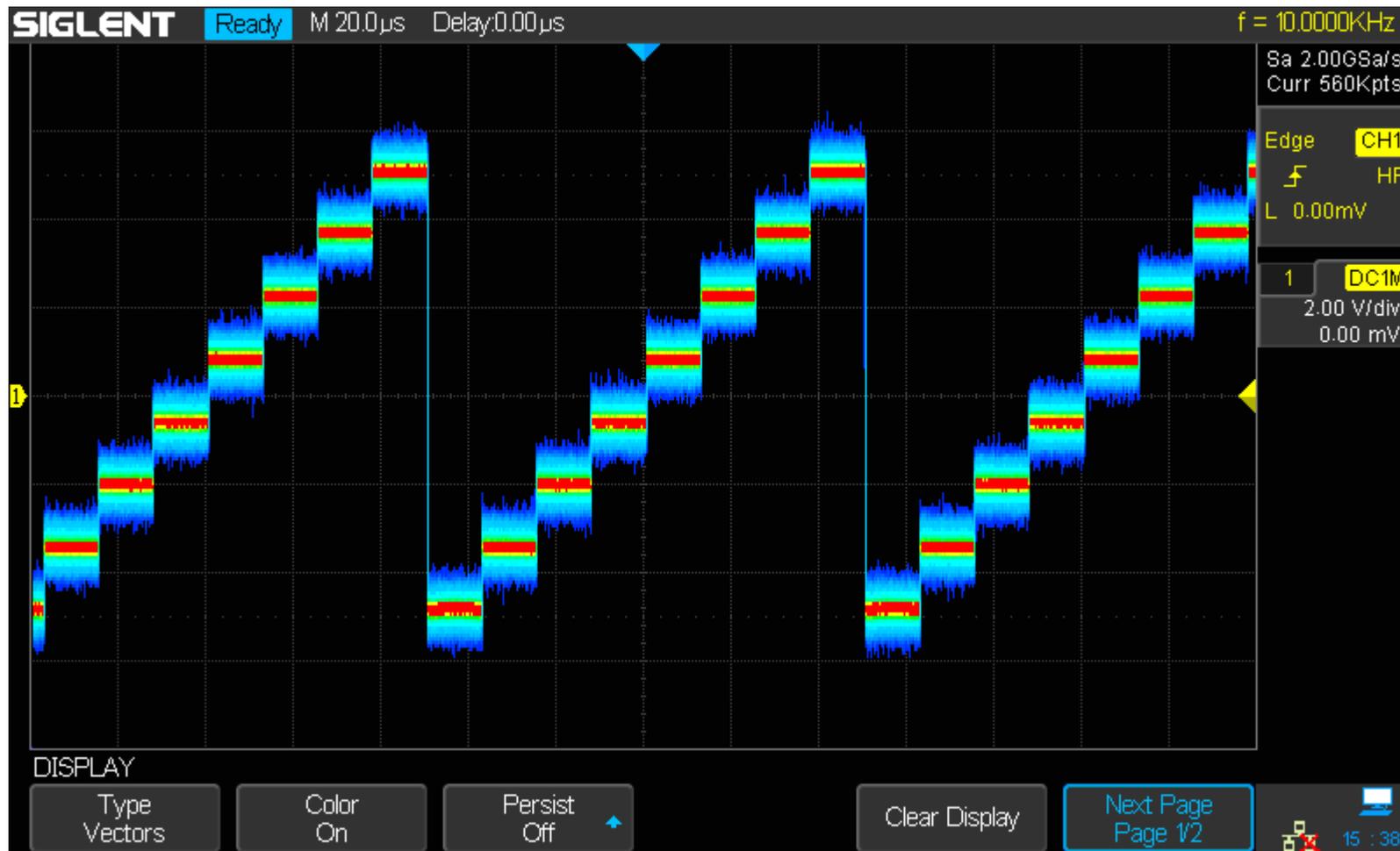
Using hardware-based Zoom technique and a record length of up to 140 Mpts, users are able to use a higher sampling rate to capture more of the signal, and then quickly zoom in to focus on the area of interest

256-level Intensity Grading and Color Temperature Display



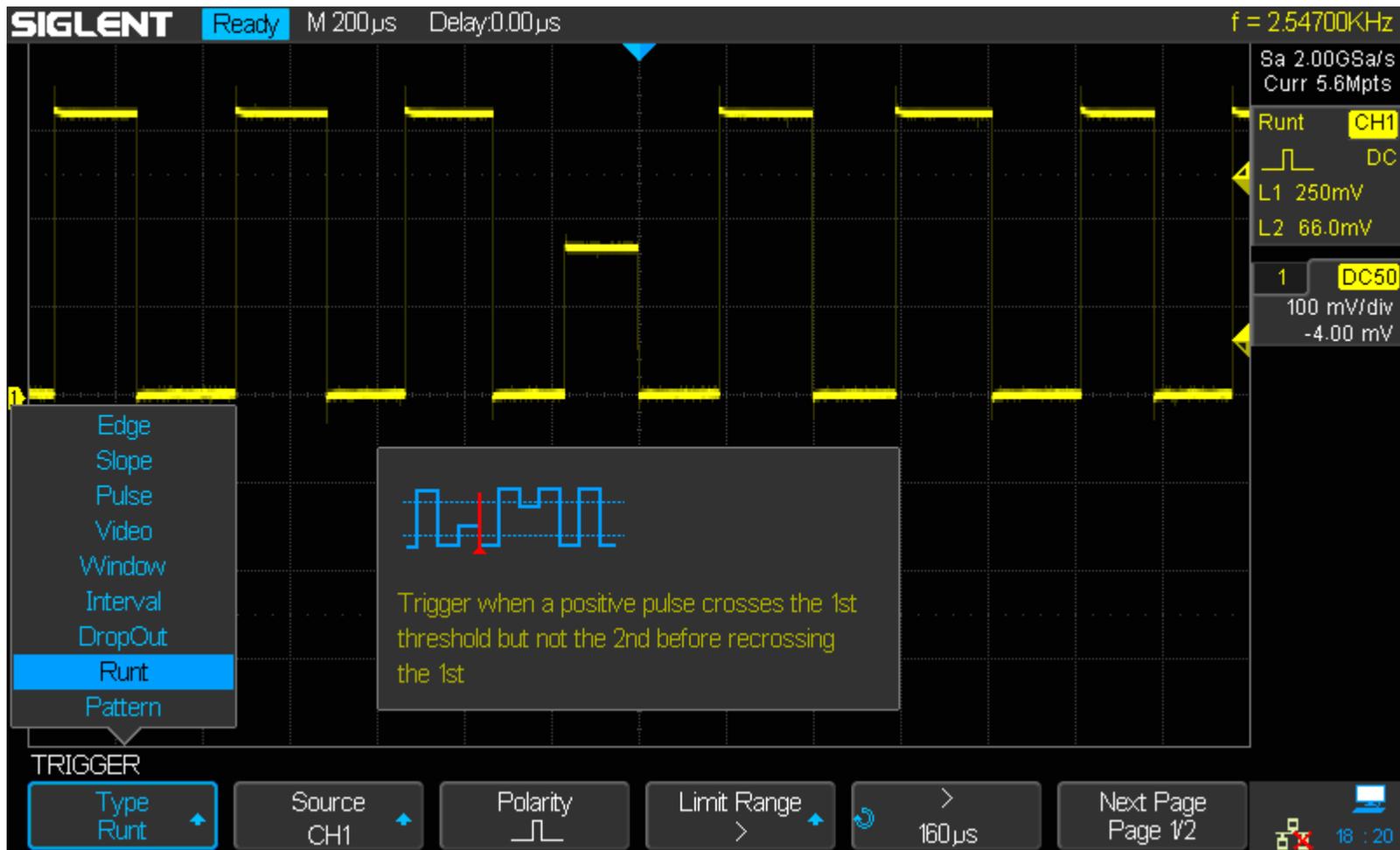
SPO display technology is the result of high refresh rate and multi-frame superimposition. In the unit of time, the higher the probability of a pixel waveform appears, the brighter the pixel.

Warm or cold Color Suggestion



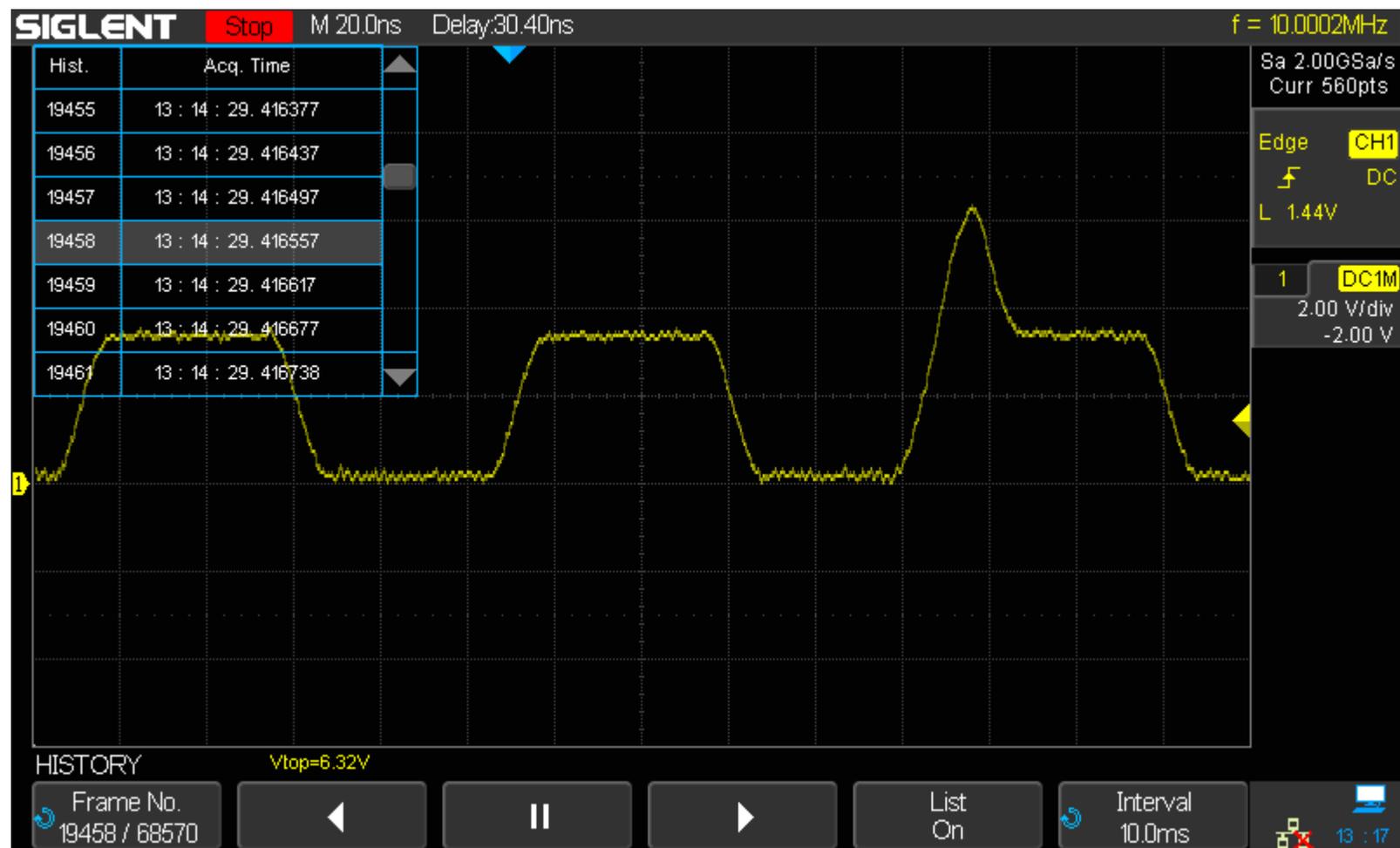
The degree of warm or cool of color suggests the probability of the appearing of waveform. The warmer the color, the higher the probability.

Variety of Trigger Functions



Edge, Slope, Pulse, Video, Windows, Runt, Interval, Dropout, Pattern, IIC, SPI, UART/RS232, LIN and CAN

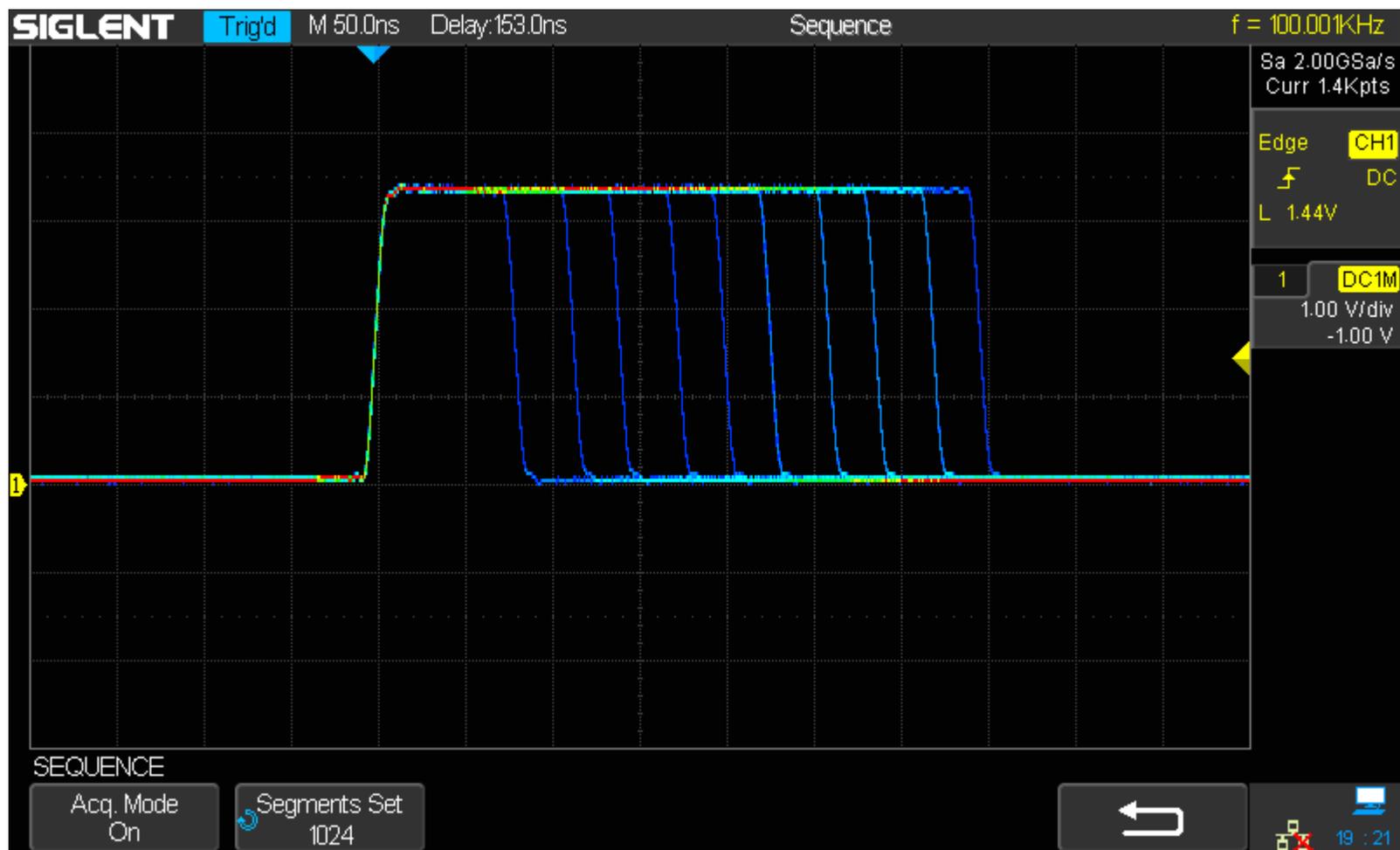
History Mode



History function can record up to 80,000 frames of waveforms.

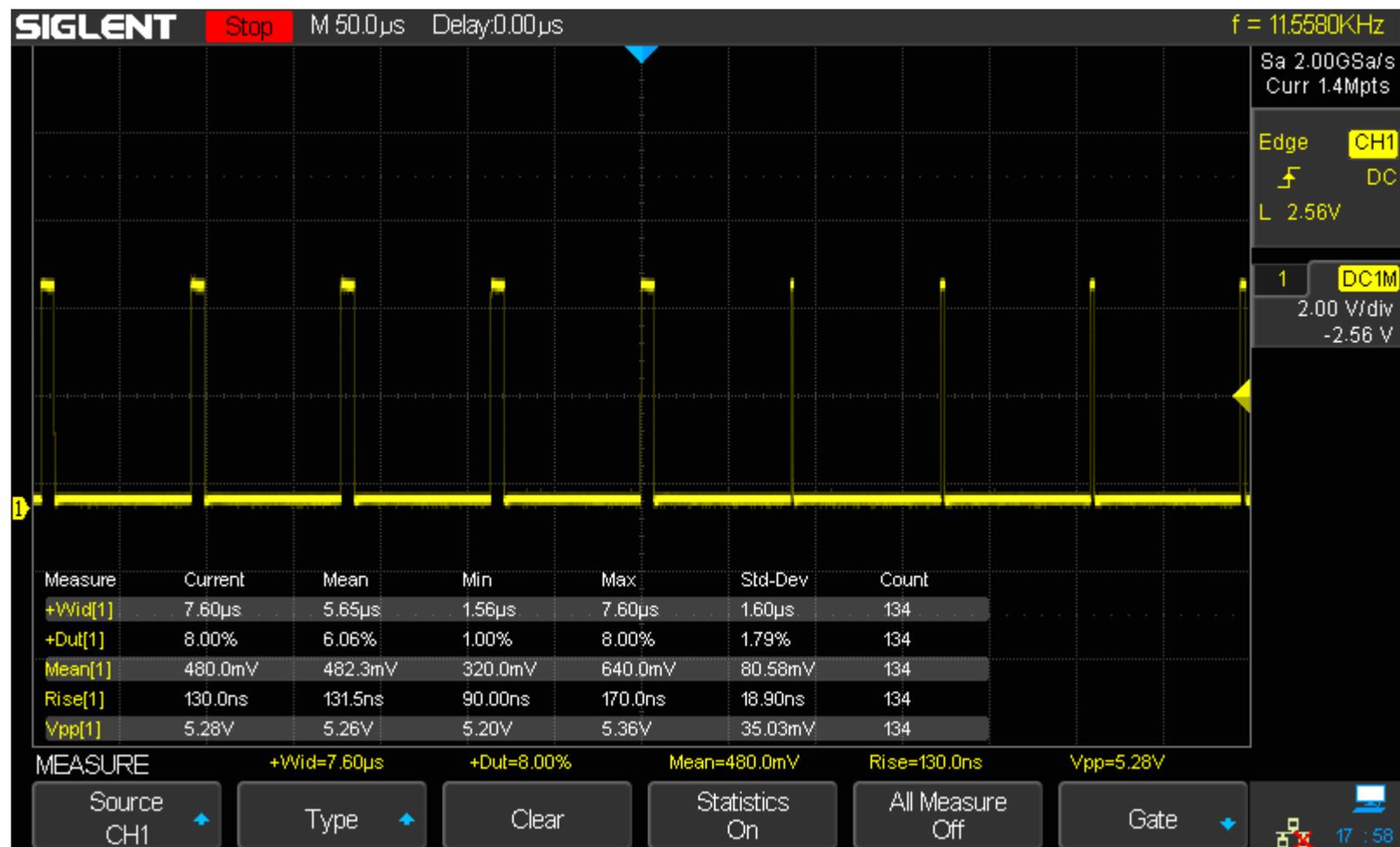
The recording is carried out automatically, so that the customer can play back the history waveforms at any time to observe unusual events, and locate the source quickly through the cursors or measurements. Located on the keyboard Panel, this function is easily accessible

Sequence Mode



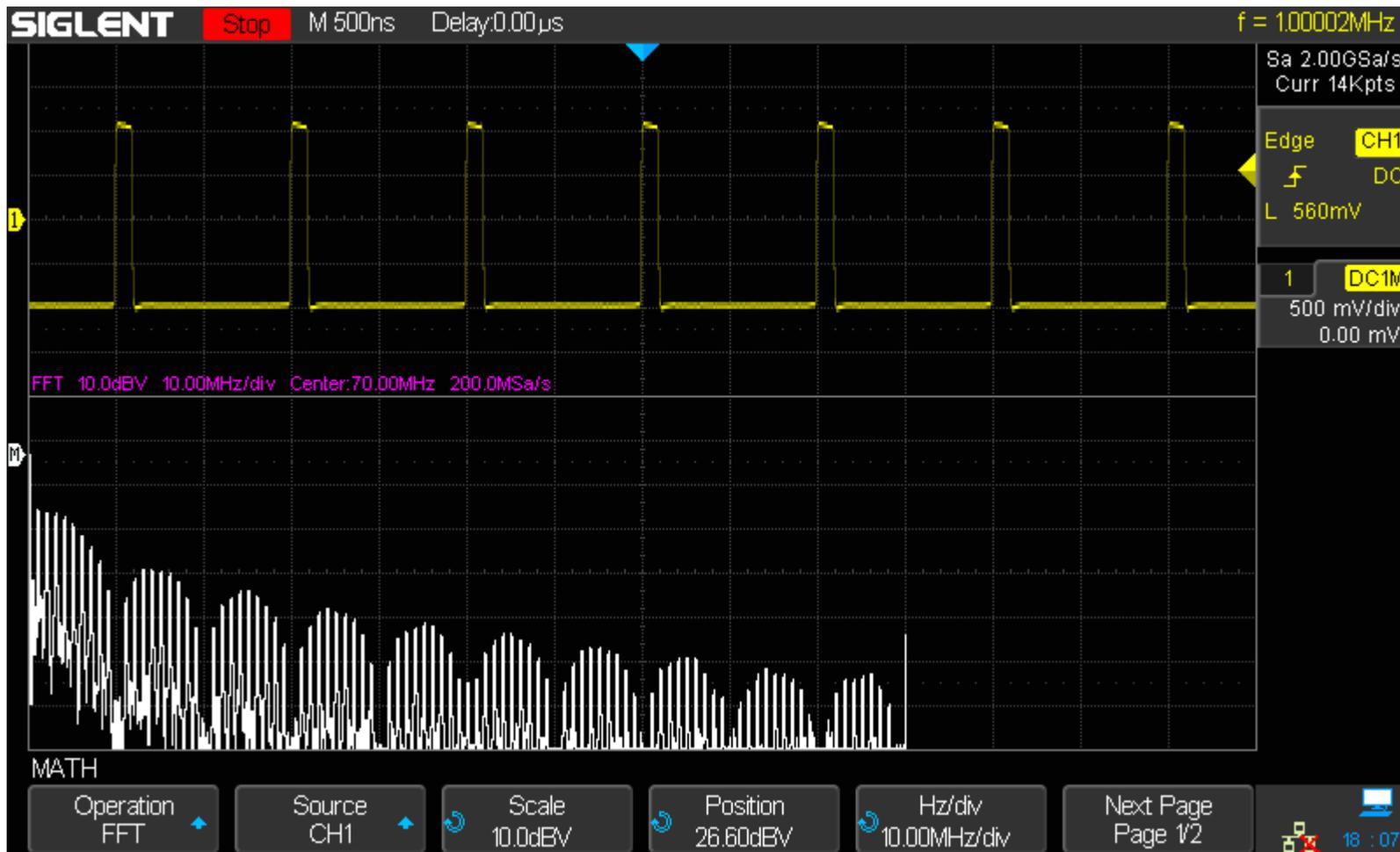
Segmented memory collection will store the waveform into multiple (up to 80,000) memory segments and each segment will store a triggered waveform, as well the dead time information. The dead time between segments can be as small as 2 μ s. All the segments can be played back using History function.

Comprehensive Statistical Functions



Parametric statistical functions to display 5 parameters for any set of measurements: current, mean, minimum value, maximum value, and standard deviation. The measurement count is also displayed. The maximum number of measurements that can be run and simultaneously analyzed statistically is five. Supports Gating measurements, Math measurement, History measurement and Ref measurement.

Advanced Math Function



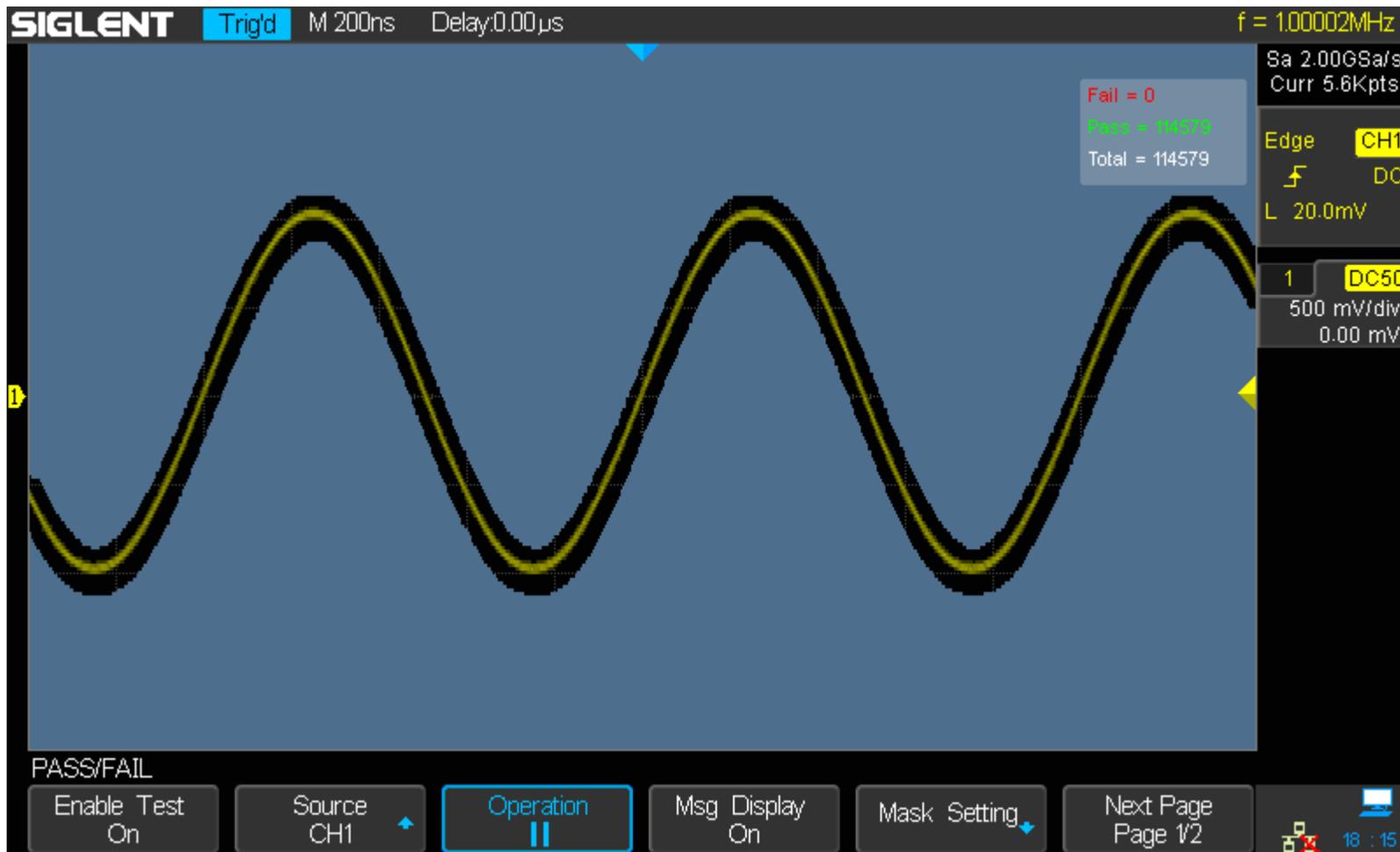
In addition to the traditional (+, -, X, /) operations, FFT, integration, differential, and square root operations are supported. The integration operation supports gating, which uses cursors to define the domain of integration.

Eres Mode



Eres mode can improve the SNR effectively, without the dependence on the periodicity of signal and stable triggering

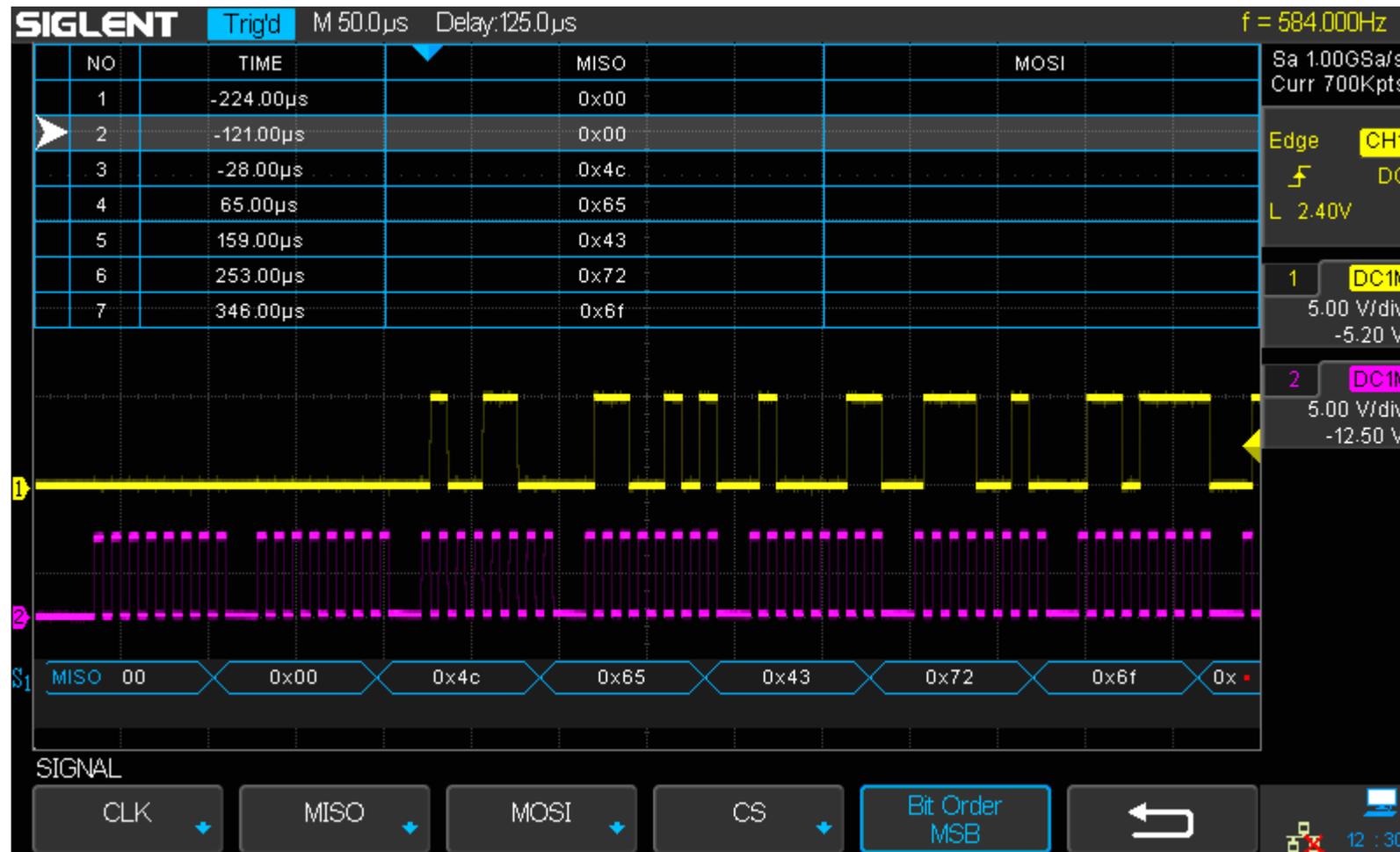
Hardware-Based High Speed Pass/Fail Function



Hardware-based Pass/Fail function performs up to 140,000 Pass / Fail decisions each second.

With easy-to-generate user-defined test templates, the SDS2000X compares the current measured trace to the template mask trace, making it suitable for long-term signal monitoring or automated testing.

Serial Bus Decoding Function (Optional)



Displays the decoding through the events list. Bus protocol information can be quickly and intuitively displayed in table form.

Built-in 25MHz Function/Arbitrary Waveform Generator (Optional)



10 built-in waveforms plus 4 ARBs. The arbitrary waveforms can be accessed and edited by the EasyWave PC software

Complete Connectivity



USB Host, USB Device (USBTMC), LAN (VXI-11), Pass/Fail, Trigger Out

Ordering Information

Product Name	Product Description
SDS2304X	300 MHz, 4 CH, 2 GSa/s (Max.), 140 Mpts
SDS2302X	300 MHz, 2 CH, 2 GSa/s (Max.), 140 Mpts
SDS2204X	200 MHz, 4 CH, 2 GSa/s (Max.), 140 Mpts
SDS2202X	200 MHz, 2 CH, 2 GSa/s (Max.), 140 Mpts
SDS2104X	100 MHz, 4 CH, 2 GSa/s (Max.), 140 Mpts
SDS2102X	100 MHz, 2 CH, 2 GSa/s (Max.), 140 Mpts
SDS2074X	70 MHz, 4 CH, 2 GSa/s (Max.), 140 Mpts
SDS2072X	70 MHz, 2 CH, 2 GSa/s (Max.), 140 Mpts

Standard Accessories

USB Cable -1

Passive Probe -4

Power Cord -1

Quick Start -1

Certification -1

Certificate of Calibration -1

CD (Including User Manual and EasyScopeX software) -1

Optional Accessories

SDS-2000X-DC	IIC, SPI, UART/RS232, CAN, LIN Decoder
SDS-2000X-FG	25MHz Function/Arbitrary Waveform Generator
SDS-2000X-PA	Power Analyze Software
SDS-2000X-16LA	16 Digital Channels (Software)
SPL2016	16 Channel Logic Probe
ISFE	Isolated Front End
STB	STB Demo Source
DF2001A	Power analysis Deskew Fixture
HPB4010	High Voltage Probe
Current Probe	Current Probe: CP4020/CP4050/CP4070/ CP4070A/CP5030/ CP5030A/CP5150/CP5500
High Voltage Differential Probe	High Voltage Differential Probe: DPB4080/DPB5150/ DPB5150A/DPB5700/ DPB5700A

Verkauf und technische Betreuung

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