

Digital Oscilloscope
 Waveform Generator
 DC Power Supply
 Digital Multimeter
 Spectrum Analyzer
 Handheld Oscilloscope
 Probes & Accessories

Product Selection Guide

The Best Value in Electronic
 Test & Measurement



Super Phosphor Oscilloscope

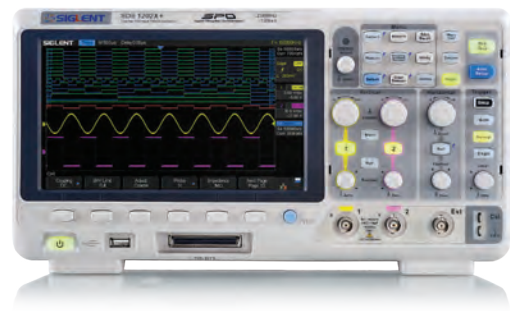


SDS2000X Series

SDS2072X/SDS2074X (70 MHz)
SDS2102X/SDS2104X (100 MHz)
SDS2202X/SDS2204X (200 MHz)
SDS2302X/SDS2304X (300 MHz)

Features and Benefits:

- 70 MHz, 100 MHz, 200 MHz, 300 MHz models
- Real-time sampling rate up to 2 GSa/s
- New generation of SPO technology
 - Waveform capture rate up to 140,000 wfms/s (normal mode), and 500,000 wfms/s (sequence mode)
 - Supports 256-level intensity grading and color temperature display
 - Record length up to 140 Mpts
 - Digital trigger system
- Intelligent trigger: Edge, Slope, Pulse, Window, Runt, Interval, Dropout, Pattern and Video (HDTV supported)
- Serial bus triggering and decoder, supports protocols IIC, SPI, UART, RS232, CAN and LIN
- Low background noise, supports 1 mV/div to 10 V/div voltage scales
- 10 types of one-button shortcuts, including Auto Setup, Default, Cursors, Measure, Roll, History, Display/Persist, Clear Sweep, Zoom and Print
- Segmented acquisition (Sequence) mode, dividing 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, the maximum recorded waveform length is 80,000 frames
- Automatic measurement function on 37 parameters, Supports statistics, Gating measurement, Math measurement, History measurement and Ref measurement
- Math function (FFT, addition, subtraction, multiplication, division, integration, differential, square root)
- High Speed hardware based Pass/ Fail function
- 16 Digital channels (MSO), Maximum waveform capture rate up to 500 MSa/s, Record length up to 140 Mpt/CH
- 25 MHz function/arbitrary waveform generator, built-in 10 types of waveforms
- Large 8 inch TFT-LCD display with 800 * 480 resolution
- Abundant interfaces: USB Host, USB Device (USB-TMC), LAN (VXI-11), Pass/ Fail, Trigger Out
- Supports SCPI remote control commands
- Supports Multi-language display and embedded online help



SDS1000X / SDS1000X+ Series

SDS1102X/SDS1102X+ (100 MHz)
SDS1202X/SDS1202X+ (200 MHz)

Features and Benefits:

- 100 MHz, 200 MHz bandwidth models
- Real-time sampling rate up to 1 GSa/s
- New generation of SPO technology
 - Waveform capture rate up to 60,000 wfms/s (normal mode), and 400,000 wfms/s (sequence mode)
 - Supports 256-level intensity grading and color temperature display
 - 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 decode, supports protocols IIC, SPI, UART, RS232, CAN, LIN
- Video trigger, supports HDTV
- Low background noise, supports 500 μ V / div to 10 V / div voltage scales
- 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, dividing 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, the maximum recorded waveform length is 80,000 frames.
- Automatic measurement function on 37 parameters, supports Statistics, Gating measurement, Math measurement, History measurement and Ref measurement
- Math function (FFT, addition, subtraction, multiplication, division, integration, differential, square root)
- High Speed hardware based Pass/ Fail function
- 16 Digital channels (MSO), Maximum waveform capture rate up to 500 MSa/s, Record length up to 140 Mpt/CH (Option for SDS1000X+ models)
- 25 MHz DDS arbitrary waveform generator, built-in 10 kinds of waveforms (Standard for SDS1000X+ models)
- Large 8 inch TFT-LCD display with 800 * 480 resolution
- Abundant interfaces: USB Host, USB Device (USB-TMC), LAN (VXI-11), Pass / Fail, Trigger Out
- Supports SCPI remote control commands
- Supports Multi-language display and embedded online help

Digital Storage Oscilloscope



SDS100CFL Series

SDS1074CFL (70 MHz)
SDS1104CFL (100 MHz)
SDS1202CFL/SDS1204CFL (200 MHz)
SDS1302CFL/SDS1304CFL (300 MHz)

Features and Benefits:

- Provide 2/4 analog channels, 24 Kpts memory depth
- 2 GSa/s real time sampling rate, 50 GSa/s equivalent sampling rate
- 7 inch (8*18 div) color TFT-LCD
- Trigger types: Edge, Pulse, Video, Slope and Alternative
- Interface: Dual USB Host, USB Device, LAN, Pass/Fail
- 32 kinds of automatic waveform measurements and unique digital filter function
- 6 digits hardware frequency counter, real time counting display
- Support USB-TMC, VXI-11 protocol and SCPI programming command control



SDS100DL+ / SDS100CML+ Series

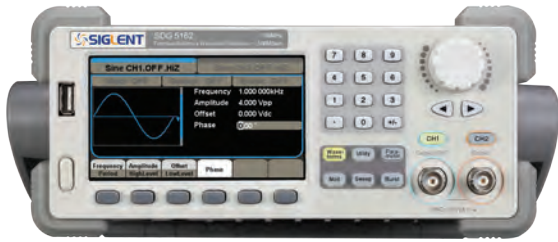
SDS1052DL+ (50 MHz)
SDS1072CML+ (70 MHz)
SDS1102CML+ (100 MHz)
SDS1152CML+ (150 MHz)

Features and Benefits

- 50 MHz, 70 MHz, 100 MHz, 150 MHz bandwidth models
- Real-time sampling rate up to 1 GSa/s, Equivalent-time sampling rate up to 50 GSa/s
- Memory Depth up to 2 Mpts
- Trigger types: Edge, Pulse, Video, Slope, Alternate
- Waveform math functions: +, -, *, /, FFT
- 6 digits frequency counter
- Supports Multi-language display and embedded online help
- Screensaver from 1 minute to 5 hours
- Digital filter and waveform recorder function
- Shortcut storage function key
- 7 inch TFT-LCD display with 800 * 480 resolution
- Multiple interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11), Pass / Fail



Function/Arbitrary Waveform Generator



SDG5000 Series

SDG5162 (160 MHz)

Features and Benefits

- 4.3 inch color TFT-LCD, DDS technology ,dual channels output, phase adjustable
- 500 MSa/s sampling rate,14 bit vertical resolution,512 Kpts max wave length
- 2 ppm high frequency stability, -116 dBm/Hz low phase noise
- Output signal and the rack earth is isolated to ensure the purity of testing system
- Excellent high frequency-high amplitude characteristic ,amplitude can reach 20 Vpp(high impedance) with a 40 MHz output frequency
- Output pulse signal with low jitter ,fast rising ad falling edge (independent from frequency)
- Duty adjustability: 0.0001%~99.9999%,edge and pulse width can be a wide range
- Support USB-TMC protocol and SCPI programming command control
- Abundant modulation functions, sweep-frequency output, burst output



SDG1000X Series

SDG1032X (30 MHz)

SDG1062X (60 MHz)

Features and Benefits

- 150 MSa/s sampling rate, 14-bit vertical resolution, and 16 kpts waveform length
- Innovative EasyPulse technology, capable of generating lower jitter Pulse waveforms, brings a wide range and extremely high precision in pulse width and rise/fall times adjustment
- Special circuit for Square wave function, can generate Square waves up to 60 MHz with jitter less than 300 ps+0.05 ppm of period
- Plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK, PSK and PWM, Sweep and Burst functions
- Harmonics Generator function
- Waveform Combining function
- High precision Frequency Counter
- Standard interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11)
- Optional interface: GPIB



SDG2000X Series

SDG2042X (40 MHz)

SDG2082X (80 MHz)

SDG2122X (120 MHz)

Features and Benefits

- Dual-channel, 120 MHz maximum bandwidth, 20 Vpp maximum output amplitude, high fidelity output with 80 dB dynamic range
- High-performance sampling system with 1.2 GSa/s sampling rate and 16-bit vertical resolution. No detail in your waveforms will be lost
- Innovative TrueArb technology, based on a point-by-point architecture, supports any 8 pts~8 Mpts Arb waveform with a sampling rate in range of 1 μ Sa/s~75 MSa/s
- Innovative EasyPulse technology, capable of generating lower jitter Square or Pulse waveforms, brings a wide range and extremely high precision in pulse width and rise/fall time adjustments
- Plenty of analog and digital modulation types: AM, DSB-AM, FM, PM, FSK, ASK PSK and PWM
- Sweep and Burst function; Harmonics mode supported
- High precision Frequency Counter
- Standard interfaces: USB Device, USB Host, LAN (VXI-11), support U Disk storage and software, upgrading GPIB port is optional
- 4.3" touch screen display for easier operation



SDG800 Series

SDG805 (5 MHz)

SDG810 (10 MHz)

SDG830 (30 MHz)

Features and Benefits

- Advanced DDS technology, 3.5 inch color TFT-LCD
- 125 MSa/s sampling rate,14 bit vertical resolution,16 Kpts max wave length
- 5 types of standard waveforms, built-in 46 types of arbitrary waveforms, sync signal output, 1 μ Hz frequency resolution
- Complete modulation functions: AM,DSB-AM, FM, PM, FSK, ASK, PWM, linear/ logarithmic sweep and burst
- Innovative EasyPulse technology, can output pulse of low jitter, quick rising/ falling edge
- Support USB-TMC protocol and SCPI programming command control
- Arbitrary waveform edit software, provides lots of painting method, capable of edit complicate waveform quickly and precisely

Programming Linear DC Power Supply



SPD3303X Series

SPD3303X (1 mV, 1 mA)
SPD3303X-E (10 mV, 10 mA)

Features and Benefits

- 3 independent controlled and isolated outputs, 32 V/3.2 A×2, 2.5 V/3.3 V/5 V/3.2 A×1, total 220 W
- 5 digits Voltage, 4 digits Current Display, Minimum Resolution: 1 mV/1 mA (SPD3303X)
- Supports front panel timing output functions
- 4.3 inch true color TFT- LCD 480x272 display
- 3 types of output modes: independent, series, parallel
- 100 V/120 V/220 V/230 V compatible design to meet the needs of different power grids
- Intelligent temperature-controlled fan, effectively reducing noise
- Clear graphical interface, with the waveform display function
- Internal 5 groups of system parameter save/recall, supports data storage space expansion
- Provides PC software: EasyPower, supports SCPI, LabView driver



SPD3303C Series

SPD3303C (10 mV, 10 mA)

Features and Benefits

- 3 independent high precision output: 30 V/3 A×2, 2.5 V/3.3 V/5 V/3 A×1, total 195 W power
- 4 digits voltage and 3 digits current display, min resolution: 10 mV, 10 mA
- Support timing programming and timing output
- Three output modes: independent, series and parallel connect, enhance output power range
- 100 V/120 V/220 V/230 V compatible design, to meet the need of different power grids
- Smart temperature controlled fan, effectively reduce the noise
- Save/Recall 5 group system specifications, support data storage expansion
- provide EasyPower software to meet the control and communication needs
- Support USB-TMC protocol and SCPI remote command, LabView driver

Digital Multimeter



SDM3055 Series

SDM3055
SDM3055A

Features and Benefits

- 4.3 inch (480*272) true color TFT-LCD large display
- True RMS 5 1/2- digital multimeter
- Up to 150 rdgs/s measurement speed
- True-RMS AC Voltage and AC Current measuring
- 1 Gb Nand flash size, Mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple- based measurements
- Standard interfaces: USB Device, USB Host, LAN, GPIB (Only for SDM3055A)
- Support remote control via commands and compatible with commands of main stream multimeters
- Support dual-display
- Support EasySDM computer software



SDM3045X Series

SDM3045X

Features and Benefits

- 4.3 inch (480*272) true color TFT-LCD large display
- Real 4 1/2 digits readings resolution
- Up to 150 rdgs/s measurement speed
- True-RMS AC Voltage and AC Current measuring
- 1 Gb Nand flash size, Mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple
- With easy, convenient and flexible PC software: EasySDM
- Standard interface: USB Device, USB Host, LAN
- Supports remote control via commands and compatible with commands of main stream multimeters



Spectrum Analyzer



SSA3000X Series

SDS3032X (9 KHz~3.2 GHz)
SDS3021X (9 KHz~2.1 GHz)

Features and Benefits:

- All-Digital IF Technology
- Frequency Range from 9 kHz up to 3.2 GHz
- -161 dBm/Hz Displayed Average Noise Level (Typ.)
- -98 dBc/Hz @10 kHz Offset Phase Noise (1 GHz, Typ.)
- Total Amplitude Accuracy < 0.7 dB
- 10 Hz Minimum Resolution Bandwidth (RBW)
- Standard Preamplifier
- Up to 3.2 GHz Tracking Generator Kit (Opt.)
- Reflection Measurement Kit (Opt.)
- Advanced Measurement Kit (Opt.)
- EMI Pre-compliance Measurements Kit (Opt.)
- 10.1 Inch WVGA (1024x600) Display

Handheld Oscilloscope



SHS1000 Series

SHS1062 (60 MHz)
SHS1102 (100 MHz)

Features and Benefits

- Completely isolated oscilloscope channels, isolated between oscilloscope and multimeter channels
- Oscilloscope isolation level : CAT I 1000 V and CAT II 600 V
- Combines the functions of oscilloscope, multimeter and recorder in one instrument
- Support waveform print and USB storage
- 60/100 MHz bandwidth , 2 input channels, 2 Mpts memory depth
- 1 GSa/s real time sampling rate, 50 GSa/s equivalent sampling rate
- Equipped with high precision multimeter and many usual testing functions
- 3 kinds of cursor mode, 32 kinds of automatic waveform measurements
- 5.7 inch color TFT-LCD
- Support trend plot and long time data recorder function














SHS800 Series







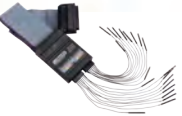


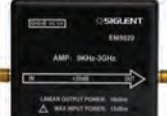



SHS806 (60 MHz)
SHS810 (100 MHz)
SHS820 (200 MHz)






Features and Benefits

- Combines the functions of oscilloscope, multimeter and recorder in one instrument
- Support waveform print and USB storage
- 60/100/200 MHz bandwidth ,2 input channels,2 Mpts memory depth
- 1 GSa/s real time sampling rate, 50 GSa/s equivalent sampling rate
- Equipped with high precision multimeter and many usual testing functions
- 3 kinds of cursor mode, 32 kinds of automatic waveform measurements
- 5.7 inch color TFT-LCD
- Support trend plot and long time data recorder function

Probes and Accessories

| Type | Model | Picture | Specifications |
|---------------|----------------------------------|---|---|
| Passive Probe | PB470 PP510 PP215 PP430 |  | PB470,70 M bandwidth PP510,100 MHz bandwidth PP215,200 MHz bandwidth PP430,300 MHz bandwidth 1 X/10 X decay, 1 M/10 Mohm, 300 V/600 V |
| | PB925 |  | Bandwidth 250 MHz, fixed 10X decay, the rise time of about 1.2 ns, input capacitance: 16 pF, compensation range: 10 pF-35 pF, input impedance 10 MΩ, length 120 cm, safe voltage levels: CAT II 1000 V, CAT III 600 V |
| | PB830 |  | Bandwidth 300 MHz, fixed 10 X decay, the rise time of about 1ns, input capacitance: 16 pF, compensation range: 10 pF-20 pF, input impedance 10 MΩ, length 140 cm, safe voltage levels: CAT II 1000 V, CAT III 600 V |
| Current Probe | CP4020 |  | Bandwidth: 100 KHz; Maximum continuous current 20 Arms; Peak current 60 A; Switching ratio: 50 mV/A; 5 mV/A; DC measurement accuracy: 50 mV/A (0.4 A-10 ApK) ± 2%; 5 mV/A (1 A-60 ApK)±2%; 9 V battery-powered |
| | CP4050 |  | Bandwidth: 1 MHz; Maximum continuous current 50 Arms; Peak current 140 A; Switching ratio: 500 mV/A; 50 mV/A; DC measurement accuracy: 500 mV/A (20 mA-14 ApK) ±3%±20 mA; 50 mV/A (200 mA-100 ApK)±4%± 200 mA; 50 mV/A (100 A-140 ApK)±15% max; 9V battery-powered |
| | CP4070 |  | Bandwidth: 150 KHz; Maximum continuous current 70 Arms; Peak current 200 A; Switching ratio: 50 mV/A; 5 mV/A; DC measurement accuracy: 50 mV/A (0.4 A-10 ApK) ±2%, 5 mV/A (1 A-200 ApK)±2%;9 V battery-powered |
| | CP4070A |  | Bandwidth: 300 KHz; Maximum continuous current 70 Arms; Peak current 200 A;Switching ratio: 100 mV/A;10 mV/A; DC measurement accuracy: 100 mV/A (50 mA-10 ApK) ±3%±50 mA; 10 mV/A (500 mA-40 ApK) ±4%±50 mA; 10 mV/A (40 A-200 ApK) ±15% max; 9 V battery-powered |
| | CP5030 |  | Bandwidth: 50 MHz; Maximum continuous current 30 Arms; Peak current 50 A; Switching ratio: 100 mV/A; 1 V/A; AC/DC measurement accuracy: 1 A (±1%±1 mA); 100 mV/A (±1%±10 mA); Standard DC 12 V/1.2 A power adapter |
| | CP5030A |  | Bandwidth: 100 MHz; Maximum continuous current 30 Arms; Peak current 50 A; Switching ratio: 100 mV/A; 1 V/A; AC/DC measurement accuracy: 1 A (±1%±1 mA); 100 mV/A (±1%±10 mA); Standard DC 12 V/ 1.2 A power adapter |
| | CP5150 |  | Bandwidth: 12 MHz; Maximum continuous current 150 Arms; Peak current 300 A; Switching ratio: 100 mV/A; 1 V/A; AC/DC measurement accuracy: 100 mV/A(±1% ±1 mA); 10 mV/A (±1% ±10 mA); Standard DC 12 V/1.2 A power adapter |
| | CP5500 |  | Bandwidth: 5 MHz; Maximum continuous current 500 Arms; Peak current 750 A; Switching ratio: 100 mV/A; 10 mV/A; AC/DC measurement accuracy: 100 mV/A (±1% ±1 mA); 10 mV/A (±1% ±10 mA); Standard DC 12 V/1.2 A power adapter |

| Type | Model | Picture | Specifications |
|---------------------------------|----------------|---|---|
| High Voltage Differential Probe | DPB4080 |  | Bandwidth: 50 MHz; Maximum input differential voltage 800 V (DC + Peak AC); Range selection (attenuation ratio):10 X/100 X; Accuracy: $\pm 1\%$; Standard DC 9 V/1 A power adapter |
| | DPB5150 |  | Bandwidth: 70 MHz; Maximum input differential voltage 1500 V (DC + Peak AC); Range selection (attenuation ratio): 50 X/500 X; Accuracy: $\pm 2\%$; Standard 5 V/ 1 A USB power adapter |
| | DPB5150A |  | Bandwidth: 100 MHz; Maximum input differential voltage 1500 V (DC + Peak AC); Range selection (attenuation ratio): 50 X/500 X; Accuracy: $\pm 2\%$; Standard 5 V/ 1 A USB power adapter |
| | DPB5700 |  | Bandwidth: 70 MHz; Maximum input differential voltage 7000 V (DC + Peak AC); Range selection (attenuation ratio): 100 X/1000 X; Accuracy: $\pm 2\%$; Standard 5 V/1 A USB power adapter |
| | DPB5700A |  | Bandwidth: 100 MHz; Maximum input differential voltage 7000 V (DC + Peak AC); Range selection (attenuation ratio): 100 X/1000 X; Accuracy: $\pm 2\%$; Standard 5 V/1 A USB power adapter |
| High Voltage Probe | HPB4010 |  | Bandwidth: 40 MHz; Maximum measurement voltage DC: 10 KV; AC(rms): 7 KV (sine); AC (Vpp): 20 KV (Pulse); attenuation ratio1:1000; Accuracy: $\leq 3\%$ |
| Logic Probe | SPL1016 |  | Logic Probe for SDS1000X+ series, 16-channel, 500 MSa/s |
| | SPL2016 |  | Logic Probe for SDS2000X series , 16-channel, 500 MSa/s |
| Near-field probe | SRF5030 |  | Four near-field probes; Frequency range: 30 MHz ~ 3 GHz; resolution 25 mm; distinguished within 10 cm range of the magnetic field; for EMI radiation interference and the intensity detector |
| Preamplifier | EM5020 |  | Maximum linear output power 10 dBm; Frequency range: 9 KHz ~ 3 GHz; typical gain of about 20 dB ~ 30 dB; Maximum input power 13 dBm ~ 15 dBm |
| Isolated front end | ISFE |  | Realize isolation among ordinary oscilloscope channels, isolation between the measured signal and ground, use USB 5 V power supply, plug and play, the maximum input voltage of up to ± 600 Vpk |
| GPIB | USB-GPIB |  | The USB Device interface extends into the GPIB interface, USB-GPIB adapter can more easily complete the task of the operation command through the GPIB, USB follow the USB2.0 specification, GPIB follow the IEEE488.2 standard |
| Demo board | STB Test Board |  | Output signals include square waves, sine, random, pulse, BURST, fast edge signal and amplitude modulation signal, 10 kinds of signals |

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|-----------------------------|-----------|---|--|
| Deskew fixture | DF2001A |  | Supporting power analysis software for calibration phase voltage and current probes generated during transmission |
| Cable | N-BNC-2L |  | N-BNC cable for SSA3000X Series; 2 GHz bandwidth |
| | N-N-6L |  | N-N cable for SSA3000X Series; 6 GHz bandwidth |
| | N-SMA-6L |  | N-SMA cable for SSA3000X Series; 6 GHz bandwidth |
| Reflection Bridge | RBSSA3X20 |  | VSWR Bridge Kit for SSA3000X Series: including Refl-SSA3000X (Software), VSWR Bridge(1 MHz~2 GHz), N(M)-N(M) adaptor (2 pcs) |
| SSA3000X Utility Kit | UKitSSA3X |  | Utility Kit for SSA3000X Series: N (M) -SMA (M) cable, N (M) -N (M) cable, N (M) -BNC (F) adaptor (2 pcs), N (M) -SMA (F) adaptor (2 pcs), 10 dB attenuator; |



PLCs



Adquisición



Instrumentos



Registadores



Potencia



HMIs



Switches



Movimiento



Sensores



Convertidores



Teclados



SCADA



Telemetría