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Siglent SDS1204X-E

Siglent SDS1204X-E Digital Oscilloscope User Manual

Model: SDS1204X-E | Brand: Siglent Technologies

1. INTRODUCTION AND OVERVIEW

The Siglent SDS1204X-E is a high-performance 200MHz Super Phosphor Digital Oscilloscope, part of the SDS1000X-E Series. It features 4 analog channels, a maximum sample rate of 1 GSa/s, and a standard record length of 14 Mpts. This instrument is designed for accurate and reliable signal analysis in various applications.



Figure 1.1: Front view of the Siglent SDS1204X-E Digital Oscilloscope, showcasing its large display and control panel.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following items are included:

- Siglent SDS1204X-E Digital Oscilloscope Unit
- USB Cable (x1)
- Quick Start Guide (x1)
- Passive Probes (x4)
- Calibration Certification (x1)
- Power Cord (x1)

3. KEY FEATURES

The SDS1204X-E oscilloscope offers a range of powerful features for comprehensive signal analysis:

- Large 7-inch TFT-LCD display with 800 x 480 resolution for clear waveform visualization.
- 200 MHz bandwidth across 4 channels, with a 1 GSa/s sample rate and 1 Mpts FFT.
- True measurement and math functions utilizing the full 14 Mpts of memory.
- Intelligent trigger capabilities including Edge, Slope, Pulse Width, Window, Runt, Interval, Timeout (Dropout), and Pattern.
- Low background noise and a wide voltage scale range from 500 μ V/div to 10 V/div.

4. SETUP

4.1 Unpacking and Placement

Carefully remove the oscilloscope from its packaging. Place the unit on a stable, flat surface with adequate ventilation. Ensure there is enough space around the device for proper airflow and access to connections.

4.2 Power Connection

1. Connect the provided power cord to the AC input on the rear panel of the oscilloscope.
2. Plug the other end of the power cord into a grounded AC power outlet.
3. Press the power button on the front panel to turn on the oscilloscope.



Figure 4.1: Rear panel of the Siglent SDS1204X-E, showing the power input, LAN port, and USB ports.

4.3 Probe Connection

1. Connect the BNC connector of the passive probe to one of the input channels (CH1-CH4) on the front panel.
2. Attach the probe's ground clip to the circuit's ground reference.
3. Connect the probe tip to the test point on your circuit.
4. Perform probe compensation as described in the Quick Start Guide for accurate measurements.

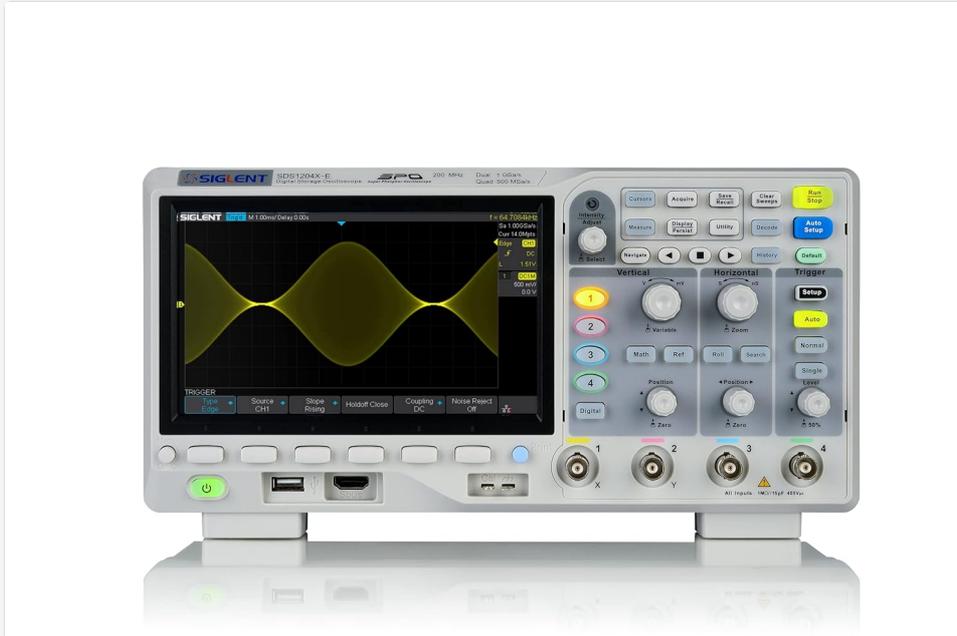


Figure 4.2: Front panel of the Siglent SDS1204X-E, highlighting the input channels and control knobs.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

The SDS1204X-E features a user-friendly interface with dedicated control knobs and function buttons. The main display shows waveforms, measurement results, and status information.

- **Vertical Controls:** Use the vertical position and scale knobs for each channel to adjust the vertical position and amplitude of the waveform.
- **Horizontal Controls:** The horizontal position and scale knobs control the time base and horizontal position of the waveform.
- **Trigger Controls:** The trigger section allows you to stabilize repetitive waveforms. Adjust the trigger level, mode, and source to capture specific events.
- **Auto Setup:** Press the 'Auto Setup' button for automatic adjustment of vertical, horizontal, and trigger settings to display a stable waveform.



Figure 5.1: Side view of the Siglent SDS1204X-E, illustrating the accessible control layout.

5.2 Advanced Functions

- **Measurements:** Access automatic measurements (e.g., Vpp, Freq, Rise Time) via the 'Measure' button.
- **Math Functions:** Perform waveform math operations (e.g., Add, Subtract, Multiply, Divide, FFT) using the 'Math' button.
- **Storage:** Save waveforms, setups, and screenshots to internal memory or a USB flash drive via the front panel USB port.
- **Connectivity:** The oscilloscope supports LAN connectivity for remote control and data transfer. While a Wi-Fi dongle and license are available for wireless operation, the wired LAN connection provides robust remote access.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Siglent SDS1204X-E oscilloscope, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the instrument. For stubborn dirt, dampen the cloth with a mild detergent solution. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings on the instrument are not blocked. Proper airflow prevents overheating.
- **Storage:** When not in use, store the oscilloscope in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **Probe Care:** Handle probes carefully. Avoid bending or stressing the cables. Clean probe tips regularly.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your oscilloscope.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display after power on	Power cord not connected; Power switch off; Internal fault	Check power cord connection; Ensure power switch is on; Contact support if issue persists.
Unstable waveform	Incorrect trigger settings; Signal too noisy; Probe not properly connected	Adjust trigger level/mode; Use 'Auto Setup'; Check probe connection and compensation; Enable HF Reject Coupling if applicable.
No signal detected	Probe not connected; Channel turned off; Vertical scale too high/low	Verify probe connection; Ensure channel is enabled; Adjust vertical scale.
Time/Date resets on power cycle	No internal coin cell battery; No NTP server configured	Connect to a network with NTP server (requires LAN/optional Wi-Fi dongle) to automatically set time. Otherwise, set manually after each power cycle.

8. SPECIFICATIONS

Specification	Value
Model Number	SDS1204X-E
Bandwidth	200 MHz
Channels	4 Analog Channels
Max Sample Rate	1 GSa/s
Record Length	14 Mpts
Display	7-inch TFT-LCD (800 x 480 resolution)
Product Dimensions	17 x 10 x 15 inches
Weight	8.2 Pounds
Manufacturer	Siglent Technologies
Country of Origin	China

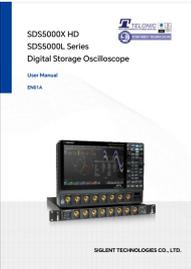
9. WARRANTY AND SUPPORT

Siglent Technologies provides a warranty for this product against defects in materials and workmanship. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your product or visit the official Siglent Technologies website. For technical support, service, or any inquiries, please contact Siglent customer service through their official channels.

You can find more information and support resources on the [Siglent Store on Amazon](#).

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Related Documents - SDS1204X-E

	<p>SIGLENT SDS5000X HD/SDS5000L Series Digital Storage Oscilloscope User Manual</p> <p>This comprehensive user manual provides detailed information on the SIGLENT SDS5000X HD and SDS5000L Series Digital Storage Oscilloscopes. It covers essential safety precautions, operation guides, front panel controls, screen display features, remote control capabilities, and in-depth explanations of various measurement and analysis functions, including trigger types, serial bus decoding, and advanced testing capabilities.</p>
	<p>SIGLENT Digital Oscilloscopes Series Programming Guide</p> <p>A comprehensive guide for programming SIGLENT Digital Oscilloscopes Series, detailing remote control, SCPI commands, NI-VISA integration, and providing practical programming examples for developers.</p>
	<p>Toshiba R32 RAV Outdoor Conversion for R410a Updated: Product Bulletin</p> <p>Product bulletin detailing the conversion of Toshiba R32 RAV Digital and Super Digital Inverter outdoor units for use with R410a refrigerant, including guidance and technical specifications compliant with F-Gas regulations.</p>
	<p>E-Gel® Technical Guide: Life Technologies DNA Electrophoresis Protocols & Systems</p> <p>Comprehensive user manual for Life Technologies' E-Gel® pre-cast agarose gels. Covers electrophoresis systems (iBase™, PowerBase™), protocols, troubleshooting, and applications for DNA analysis and purification. Includes E-Gel® EX, NGS, CloneWell™, SizeSelect™, 48/96 gels.</p>
	<p>Toshiba Air Conditioning Price List 2020 ROI: HVAC Systems Catalog</p> <p>Comprehensive 2020 Price List and Product Catalog for Toshiba Air Conditioning in ROI. Features residential, commercial, and VRF HVAC systems, including RAS, RAV, SHRMe, SMMSe, and Estia heat pumps. Focus on innovation, energy efficiency, and reliability.</p>

TOSHIBA
 Air Conditioner High-Wall Type
Owner's Manual
 For wireless remote controller

Indoor Unit
 Model Name: MMK-UP0271HP-E, MMK-UP0301HP-E, MMK-UP0361HP-E

[Toshiba Air Conditioner Owner's Manual for Wireless Remote Controller](#)

Comprehensive owner's manual for Toshiba High-Wall Type Air Conditioners (MMK-UP0271HP-E, MMK-UP0301HP-E, MMK-UP0361HP-E) with wireless remote controllers. Covers operation, maintenance, troubleshooting, and specifications.

Documents - Siglent – SDS1204X-E



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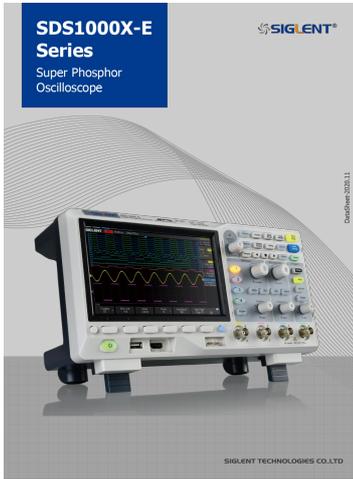


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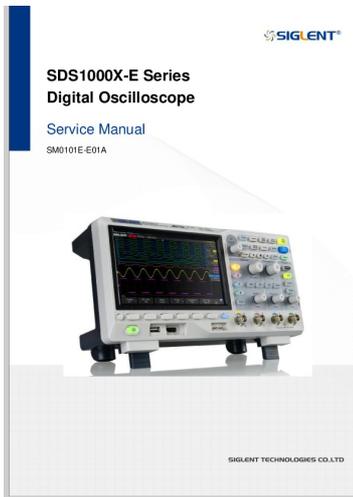
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SDS1000X E DataSheet DS0101E E04C Index of manuals siglent chrisgrossman |||
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SDS1204X-E SDS1202X-E Product overview SIGLENT s new SDS1000X-E Super
 Phosphor Oscilloscopes feature two channel and four channel models. The two
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<https://www.gotronik.pl/zestaw-promocyjny-sds1204x-e-oscyloskop-cyfrowy-4x100mhz-odblokowanie-opcjigeneratora-oraz-analizatora-stanow-logicznych-gratis-p-10492.html> zestaw promocyjny **SDS1204X-E** oscyloskop cyfrowy 4x100MHz
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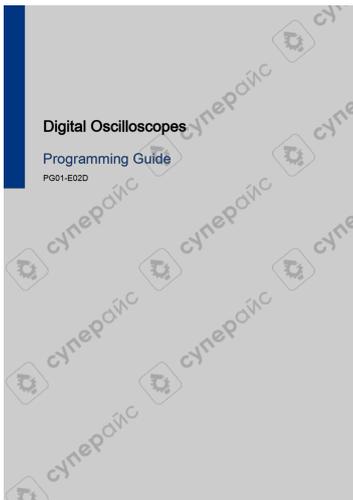
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Michael Cardoso SLA1016 Mixed Signal Oscilloscope Whitepaper Mike purchased a Siglent SDS1204X E Super Phosphor for use at home in designing and troubleshooting his projects About Siglent SLA 1016 siglentna 2023 04 |||

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first began developing digital oscilloscopes independently in 2002 siglent selection guide BF batterfly

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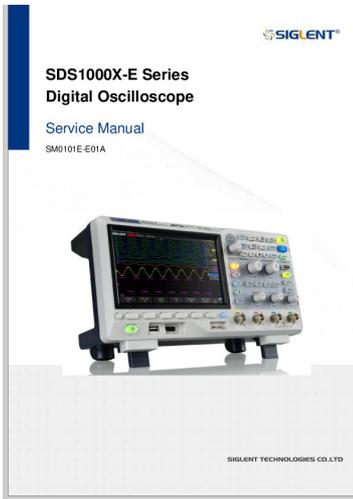
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This is a product page for the SDS1204X-E oscilloscope. It includes a small image of the device, a table with technical specifications, and a detailed description in Polish. The table lists:

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Producent	Siglent

 The description below the table provides technical details in Polish, including channel counts, bandwidth, and sampling rates. At the bottom, there is a 'Dane techniczne' section with a list of key features.

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Produkt shopGold sds1204x e oscyloskop cyfrowy 4x200mhz super phosphor gotronik pl phosphor karta 6604 html |||

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<https://www.gotronik.pl/sds1204x-e-oscyloskop-cyfrowy-4x200mhz-super-phosphor-p-6604.html> **SDS1204X-E** oscyloskop cyfrowy 4x200MHz Super Phosphor Cena brutto Cena netto Cena poprzednia Czas wysyłki Numer katalogowy Producent 3 173,40 zł 2 582...

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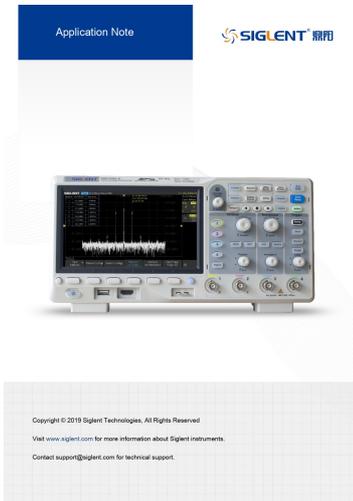
This is a 'Product Selection Guide' for Siglent equipment. It features the Siglent logo and a list of product categories: Digital Oscilloscope, Waveform Generator, RF Signal Generator, Spectrum Analyzer, Vector Network Analyzer, DC Power Supply, DC Electronic Load, Digital Multimeter, and Probes & Accessories. A photograph of various Siglent instruments is shown at the bottom. The company name 'SIGLENT TECHNOLOGIES CO., LTD.' is at the bottom left.

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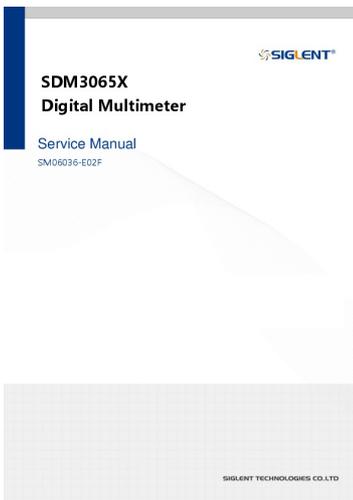


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GF Derek Song Measuring the Modulation Index of an AM Signal using FFT 1 chrisgrossman manuals siglent |||

Application Note Measuring the Modulation Index of an AM Signal using an FFT Copyright 2019 Siglent ... modulation index very easily. 3. Measurement Setup and Result 3.1 Equipment Oscilloscope: Siglent **SDS1204X-E** with firmware version higher than 6.1.31. Signal Source: Siglent SDG2122X Cable: 50 ohm B...

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User Manual Specifications Declaration of Conformity

User Manual 123 SDM3065X ServiceManual SM06036 E02F int siglent u file document ServiceManu Index of ||| SDM3065X Digital Multimeter Service Manual SM06036-E02F SDM3065X Service Manual I Guaranty and Declaration Copyright SIGLENT TECHNOLOGIES CO., LTD All Rights Reserved. Trademark In

SDM3065X Digital Multimeter Service Manual SM06036-E02F SDM3065X Service Manual I Guaranty and Dec ... al Specifications Accuracy 0.05 1 mV resolution 200 MHz Bandwidth Example Siglent SDM3055 Siglent **SDS1204X-E** Analog Board Drawing The analog board is a signal sampling board that converts the anal...

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Quick remote computer control using LXI Tools

March 13, 2018

Introduction:

There are many options for people considering remote communication and control of test and measurement instrumentation. In most cases, a computer is used to communicate to test instrumentation using GPIB or LAN connections. The computer can configure the instruments, collect test data, and present it in a useful and flexible way.

Remote control provides:

- Increased repeatability: The instrumentation is set up the same way, every time.
- Efficient data collection: Tests can be automatically filtered and stored.
- Easily configure the test system parameters: Each command is executed in the same order and in the same timeframe.
- Quickly visualize system performance: Graphical or tabular data formatting is easy.

There are numerous platforms (Windows, Linux, etc.) and software programs (LabVIEW, .NET, Python) available to build automated test systems. The right choice for your application is highly dependent on your needs and the available skills you have.

In this note, we are going to discuss how to use LXI Tools to communicate with SIGLENT instrumentation. LXI Tools is an open source software application that uses the local area network (LAN) connection to quickly control remote instrumentation. It is easy to install, has a small operating footprint, and is really powerful while being quite easy to use. Let's start by looking at the basics.

You can also see the video version of this note here: <http://siglenta.com/deslxi-tools/>

Why Open Source?

Open source coding is a community-based development style in which a group of contributors work together to build and maintain programs using shared code and components. In this way, a program can be built and tested quickly and may cost significantly less than commercial programming environments. LXI Tools is free open source software and the project welcomes new contributors that would like to help improve the tools.

Here is a link to the LXI Tools website: <https://lxi-tools.github.io>

Why LXI Tools?

LXI Tools is a collection of open source software tools that provide direct control of LXI compatible instruments such as modern oscilloscopes, power supplies, spectrum analyzers, and more. Simply install LXI Tools, connect your instrument, and start communicating.

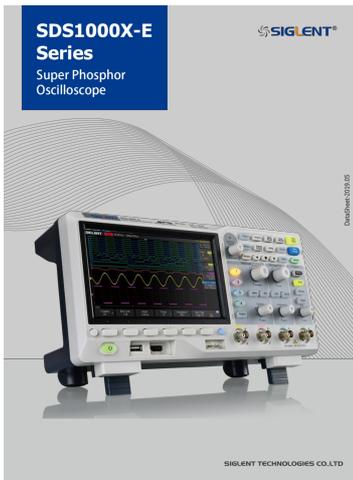
It really is that easy.

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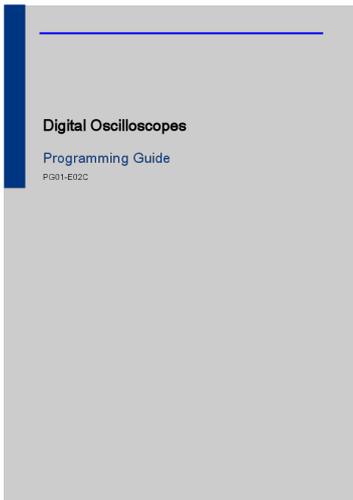
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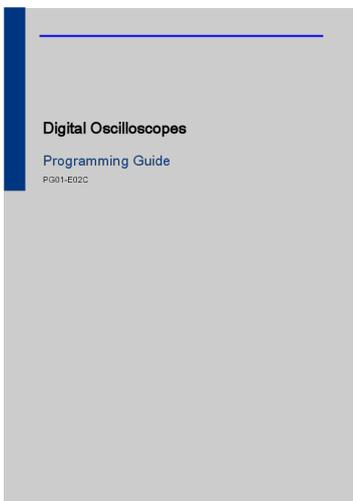
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