

Rigol DS1054Z

Rigol DS1054Z Digital Oscilloscope User Manual

Model: DS1054Z

INTRODUCTION

Welcome to the user manual for the Rigol DS1054Z Digital Oscilloscope. This document provides essential information for the safe and effective use of your new instrument. The DS1054Z is a versatile 4-channel, 50 MHz digital oscilloscope designed for precise waveform analysis and measurement in various electronic applications.

SAFETY INFORMATION

Please read all safety instructions carefully before operating the device to prevent injury or damage to the instrument.

- **Power Source:** Ensure the oscilloscope is connected to a power source with the correct voltage and frequency as specified on the device.
- **Grounding:** Always use a properly grounded power cord to prevent electric shock.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the instrument to prevent overheating.
- **Environment:** Operate the oscilloscope in a dry, clean environment, away from direct sunlight, high temperatures, humidity, and strong electromagnetic fields.
- **Liquid Exposure:** Avoid exposing the instrument to liquids. If liquid enters the device, disconnect power immediately and have it inspected by qualified service personnel.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the instrument yourself.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Rigol DS1054Z Digital Oscilloscope
- 4 x Passive Probes (RP2200)
- Power Cord
- USB Cable
- Calibration Certificate

- Quick Guide (Printed)



Image: Rigol DS1054Z Oscilloscope with its standard accessories, including four probes, power cord, and documentation.

PRODUCT OVERVIEW

Front Panel

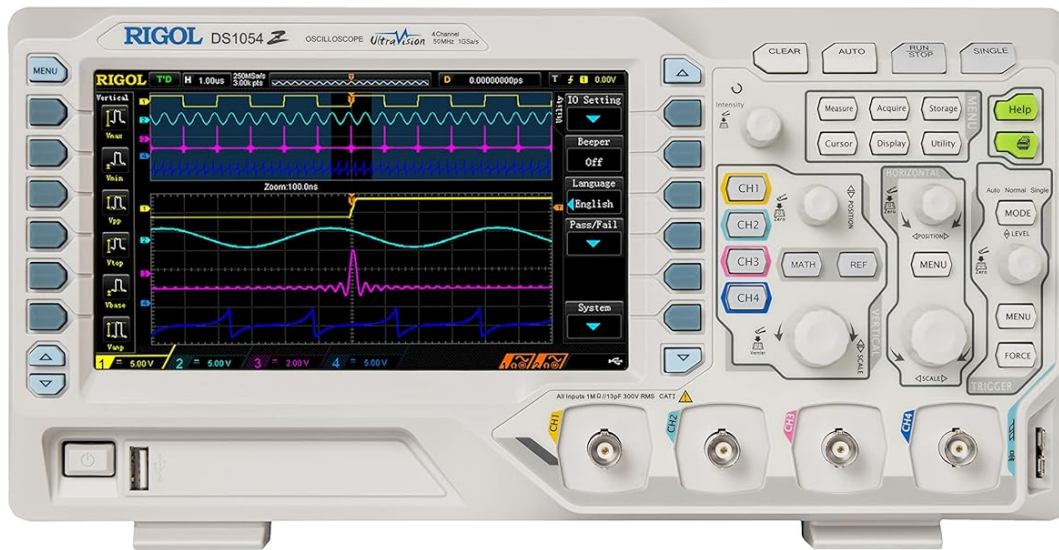


Image: Front view of the Rigol DS1054Z, showing the large display, channel inputs, and control buttons.

The front panel features a large 7-inch WVGA (800x480) TFT display for clear waveform visualization. Key controls include:

- **Channel Inputs (CH1-CH4):** BNC connectors for connecting probes.
- **Vertical Controls:** Knobs and buttons for adjusting vertical scale (Volts/Div) and position for each channel.
- **Horizontal Controls:** Knobs for adjusting horizontal scale (Sec/Div) and position.
- **Trigger Controls:** Buttons and knobs for setting trigger level, mode, and source.
- **Function Buttons:** Dedicated buttons for Measure, Acquire, Storage, Cursor, Display, Utility, Help, and Menu navigation.
- **USB Host Port:** Located on the front for connecting USB storage devices.

Rear Panel



Image: Rear view of the Rigol DS1054Z, showing power input, LAN, USB, and auxiliary ports. The serial number DS1ZA233608157 is visible.

The rear panel provides essential connectivity options:

- **Power Input:** For connecting the AC power cord.
- **LAN Port:** For network connectivity and remote control.
- **USB Device Port:** For connecting to a computer.
- **Aux (TrigOut / PassFail) Port:** An auxiliary output for trigger signals or Pass/Fail testing.

SETUP

Power Connection

1. Ensure the oscilloscope is turned off.
2. Connect the provided power cord to the power input on the rear panel of the oscilloscope.
3. Plug the other end of the power cord into a grounded AC power outlet.

Probe Connection and Compensation

1. Connect the probe to one of the BNC input channels (CH1-CH4) on the front panel.
2. Attach the probe clip to the probe compensation test point (usually a square wave output) on the front panel.
3. Turn on the oscilloscope.
4. Adjust the probe compensation using a small screwdriver on the probe body until a flat-top square wave is displayed on the screen. This ensures accurate measurements.

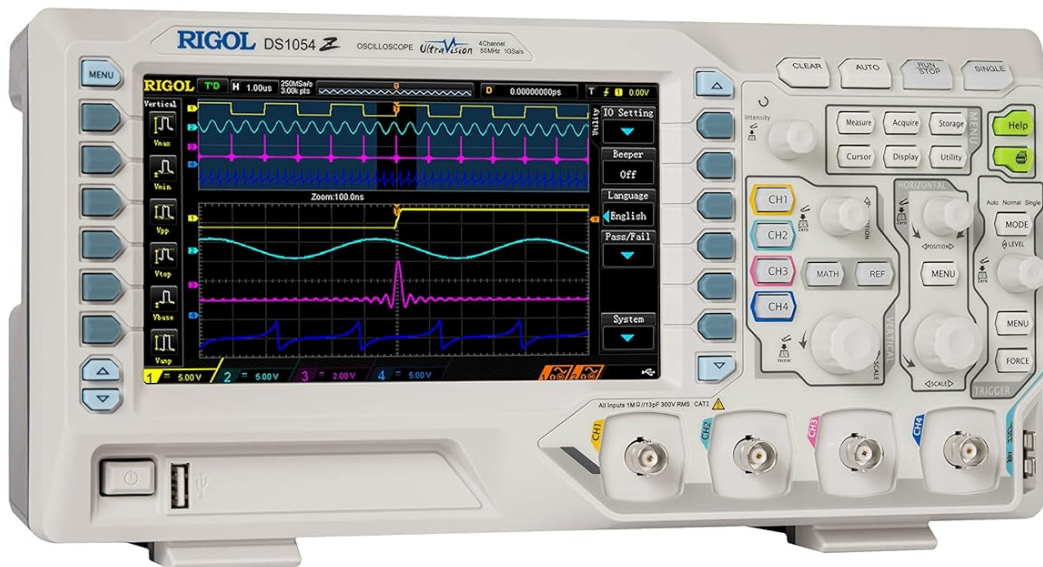


Image: The Rigol DS1054Z in an operational setup, demonstrating probe connection and signal acquisition.

OPERATING INSTRUCTIONS

Basic Measurements

The DS1054Z offers a wide range of measurement capabilities:

- **Channel Selection:** Use the CH1-CH4 buttons to enable or disable channels.
- **Vertical Scale:** Adjust the Volts/Div knob to change the vertical sensitivity.
- **Horizontal Scale:** Adjust the Sec/Div knob to change the time base.
- **Auto Setup:** Press the **AUTO** button for automatic setup of vertical, horizontal, and trigger systems.
- **Measure Function:** Press the **Measure** button to display automatic measurements such as frequency, period, peak-to-peak voltage, and more.
- **Math Functions:** Utilize the **MATH** button for waveform operations like addition, subtraction, multiplication, division, FFT, and integration.



Multiple waveform display.



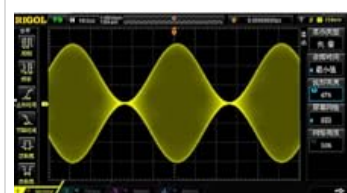
Single pulse waveform analysis.



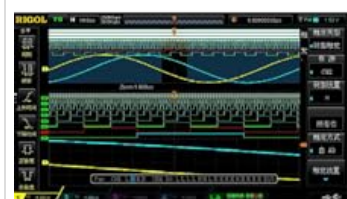
Rising and falling edge signals.



Decoded serial data display.



Amplitude modulated waveform.



Complex multi-channel signal.



Lissajous figures for phase analysis.

Triggering

Triggering is crucial for stable waveform display. Use the trigger controls to set the trigger type (Edge, Pulse, Slope, Video, etc.), source (CH1-CH4, AC Line, External), and level. The DS1054Z supports advanced triggering options to capture specific events.

Waveform Display and Analysis

The UltraVision technology provides a deeper memory (12 Mpts, upgradable to 24 Mpts) and a high waveform capture rate (up to 30,000 wfms/s), allowing for the capture of transient events and detailed signal analysis. The multi-level intensity grading display helps visualize signal variations over time.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the oscilloscope. For stubborn dirt, a slightly damp cloth with mild detergent can be used. Do not use abrasive cleaners or solvents.
- **Storage:** Store the oscilloscope in a cool, dry place, away from direct sunlight and extreme temperatures. When not in use for extended periods, disconnect the power cord.
- **Calibration:** For optimal performance, periodic calibration by qualified service personnel is recommended.

TROUBLESHOOTING

If you encounter issues with your Rigol DS1054Z, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No display after power on	Power cord not connected; Power switch off; Fuse blown.	Check power cord connection; Ensure power switch is on; Contact service for fuse replacement.
No waveform displayed	Probe not connected; Channel disabled; Vertical scale too high/low; Trigger not set correctly.	Connect probe; Enable channel; Adjust Volts/Div; Adjust trigger level/mode.
Unstable waveform	Incorrect trigger settings; Probe compensation incorrect.	Adjust trigger level/mode/source; Perform probe compensation.
Excessive fan noise	Normal operation; Dust accumulation.	Ensure proper ventilation; Clean dust from vents (if accessible and safe). If persistent or unusual, contact support.

SPECIFICATIONS

Key technical specifications for the Rigol DS1054Z Digital Oscilloscope:

Feature	Specification
Bandwidth	50 MHz
Channels	4
Real-time Sample Rate	1 GSa/s (single channel)
Memory Depth	12 Mpts (upgradable to 24 Mpts)
Waveform Capture Rate	Up to 30,000 wfms/s
Display	7-inch WVGA (800x480) TFT
Connectivity	USB Host, USB Device, LAN, Aux (TrigOut / PassFail)
Dimensions (L x W x H)	13 x 7 x 5 inches
Weight	6.6 Pounds
Model Number	DS1054Z

WARRANTY INFORMATION

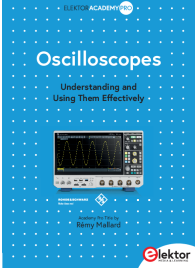
The Rigol DS1054Z Digital Oscilloscope comes with a **3-YEAR** warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the documentation provided with your product or visit the official Rigol website.

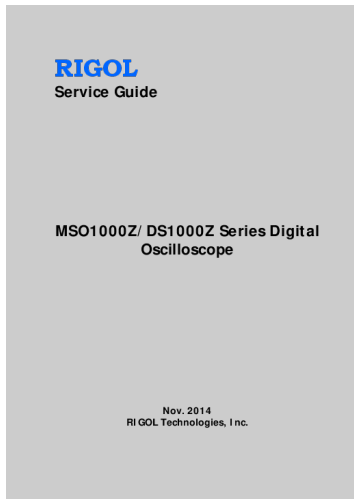
SUPPORT

For technical support, product inquiries, or service requests, please contact Rigol customer support through their official channels. You can find more information and resources on the [Rigol Official Store on Amazon](#) or their corporate website.

Related Documents - DS1054Z

	Руководство пользователя RIGOL DS1000Z Цифровой осциллограф Подробное руководство пользователя для цифровых осциллографов RIGOL серии DS1000Z, включая модели DS1054Z, DS1104Z, DS1074Z и другие. Охватывает характеристики, безопасность, эксплуатацию и технические детали.
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	RIGOL DS1000Z Series Digital Oscilloscope: Features, Specifications, and Accessories Explore the RIGOL DS1000Z Series Digital Oscilloscope, a high-performance and economic solution offering UltraVision technology, mixed signal capabilities, and detailed specifications for design, debugging, and educational applications.
	Oscilloscopes: Understanding and Using Them Effectively A comprehensive guide to understanding and effectively using oscilloscopes, covering fundamental principles, probe selection, oscilloscope types, measurement techniques, advanced functions, and practical exercises. Authored by Rémy Mallard and published by Elektor Academy Pro.
	RIGOL DS1000Z Series Digital Oscilloscope Quick Guide A quick guide to the RIGOL DS1000Z Series Digital Oscilloscope, covering safety requirements, measurement categories, working environment, care and cleaning, and document overview.
	RIGOL DHO800 Series Digital Oscilloscope Quick Guide Quick guide for the RIGOL DHO800 Series Digital Oscilloscope, covering safety, setup, operation, and remote control. Features include 12-bit resolution, 25 Mpts memory depth, and 1,000,000 wfms/s capture rate.
	RIGOL DHO800 Series Digital Oscilloscope Quick Guide Get started quickly with the RIGOL DHO800 Series Digital Oscilloscope. This guide covers essential safety information, product overview, front and rear panel details, user interface, preparation for use, touch screen gestures, parameter setting, and remote control options.

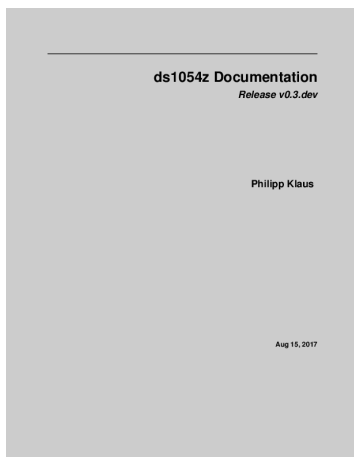


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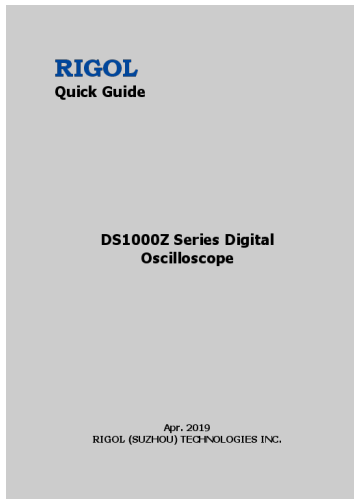
ds1054z Documentation Release v0.3.dev Philipp Klaus Aug 15, 2017 Contents 1 Installation 3 2 ... 7 3 Using the **DS1054Z** Class 9 4 API Documentation 11 4.1 The class **ds1054z.DS1054Z** - Easy communication with y...

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[Руководство пользователя RIGOL DS1000Z Цифровой осциллограф](#)

Подробное руководство пользователя для цифровых осциллографов RIGOL серии DS1000Z, включая модели DS1054Z, DS1104Z, DS1074Z и другие. Охватывает характеристики, безопасность, эксплуатацию и технические детали. lang:i-klngon **score:40** filesize: 2.84 M page_count: 271 document date: 2019-07-30

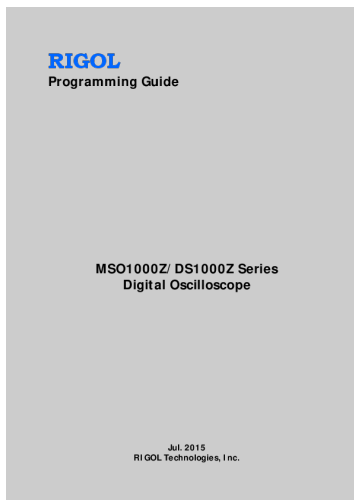


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1 Rigol DS1054Z Programming Guide international standard conformance certification is in progress

Contact Us If you have any problem or requirement when using our products this manual please contact

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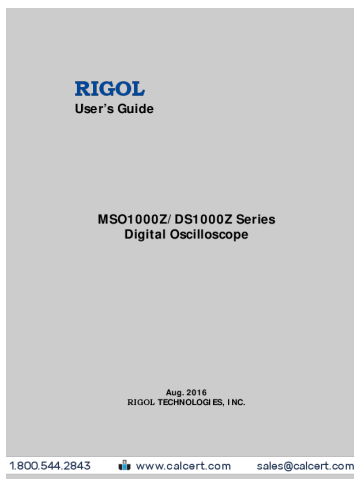
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Chapter 18 Specifications	
All the specifications are guaranteed except the parameters marked with "Typical" and the oscilloscope needs to operate for more than 30 minutes under the specified operation temperature.	
Sample	
Sample Mode	Real-time Sample
Real Time	Analog channel: 1 GSa/s (single channel), 500 MSa/s (dual channel), 250 MSa/s (3+4 channel)
Sample Rate	Digital channel: 1 GSa/s (8 channel), 500 MSa/s (16 channel)
Peak Detect	Analog channel: 4 ns Digital channel: 4 ns
Averaging	After all the channels finish N samples at the same time, N can be 2, 4, 8, 16, 32, 64, 128, 256, 512 or 1024
High Resolution	12 bit (max)
Interpolation	None or optional
Min Detect	Digital channel: 10 ns
Pulse Width	Analog channel: standard 130 ps (single channel), 60 ps (dual channel), 30 ps (3+4 channel), optional 24 Mps (single channel), 12 Mps (dual channel), 6 Mps (3+4 channel) Digital channel: standard 12 Mps (8 channel), 6 Mps (16 channel), optional 24 Mps (8 channel), 12 Mps (16 channel)
Memory Depth	
Input	MSO1000Z/DS1000Z Series: 4 analog channels, 3 analog channels + 8 digital channels, 2 analog channels + 16 digital channels DS1054Z Plus/1000Z-S Plus: 4 analog channels, MSO upgradeable DS1054Z: 4 analog channels
Number of Channels	
Input Coupling	DC, AC or GND
Input Impedance	Analog channel: (1 MΩ±1%) (15 pF±3 pF) Digital channel: 100 kΩ±1% (15 pF±3 pF)
Probe	Analog channel: 50:1 to 1000:1, 1:2.5 S drop
Attenuation Coefficient	
Maximum Input Voltage (V _{IN})	Analog Channel: CAT I 300 Vrms, CAT II 100 Vrms, Transient Overvoltage 1000 Vpk Digital channel: CAT I 400 Vrms, Transient Overvoltage 800 Vpk

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1 Chapter 18 Specifications TestEquity DS1054Z 4 analog channels Input Coupling DC AC or GND Impedance to 50 MHz Single shot Bandwidth Quick StartChapter 2 To Set the Vertical SystemRising Falling Rising MSO1000Z DS1000Z User s Guide 3 RIGOL Rigol Specification Spec2 181015A assets testequity te1 Documents rigol mantech co za Datasheets Products

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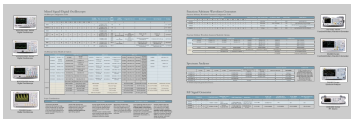
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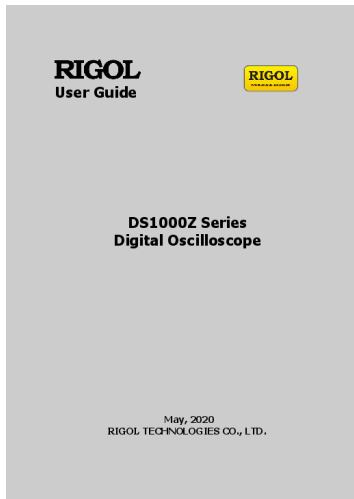
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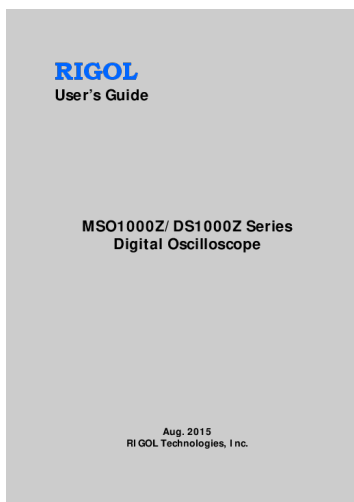
User Guide DS1000Z Series Digital Oscilloscope May, 2020 RIGOL

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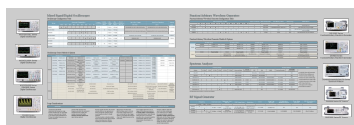
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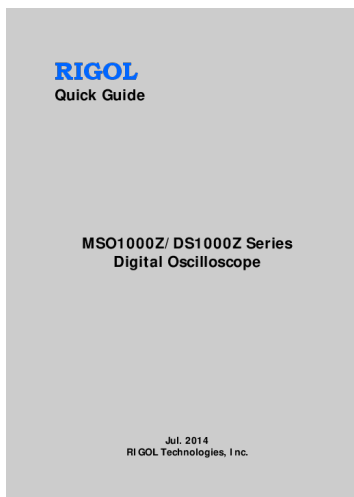
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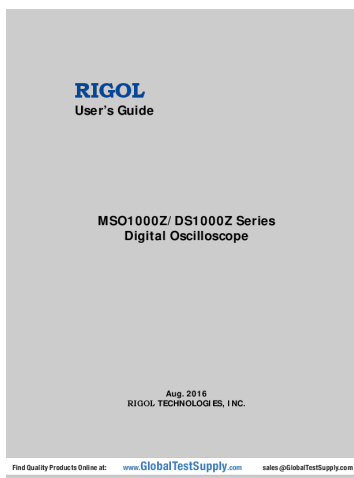
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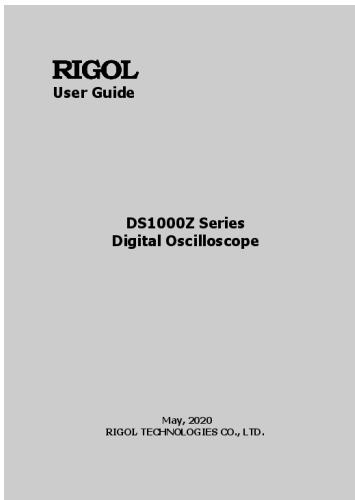


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[RIGOL DS1000Z Series Digital Oscilloscope User Guide](#)

This user guide provides comprehensive information on the RIGOL DS1000Z Series Digital Oscilloscope, including safety precautions, operating instructions, and technical specifications. Learn how to use your digital oscilloscope safely and effectively.

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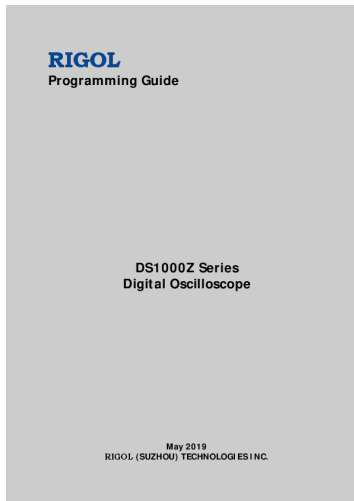
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Number of Digital Channels 16 1 16 1 16 1 16 1 **DS1054Z** 50 MHz 4 -- -- Note 1 :

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DS1000Z Series Digital Oscilloscope Analog channel bandwidth: 100 MHz, 70 MHz,

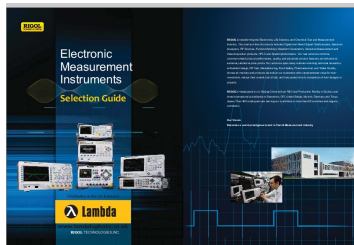
50 MHz 4 analog chann ... ware Real-time Waveform Recording and Playback

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DS1074Z-S Plus DS1104Z Plus DS1104Z-S Plus 50 MHz 70 MHz 100 MHz 4 None

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www.lambdaphoto. ... 100MHz 2CH 100MHz 2 16 CH DS1104B 100MHz 4CH

DS1204B 200MHz 4CH DS1000Z Plus Series **DS1054Z** 50MHz 4CH DS1074Z Plus

70MHz 4CH DS1074Z-S Plus 70MHz 4CH 2CH Source MSO1074Z Plus 70M...

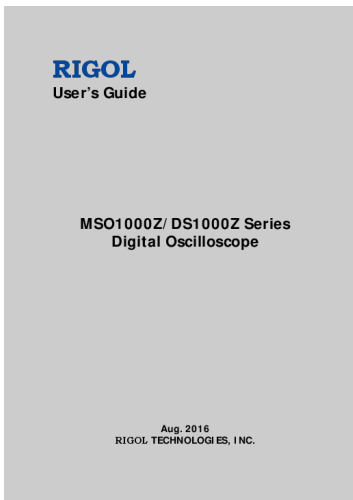
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[RIGOL DS1000Z Series Digital Oscilloscope: Features, Specifications, and Accessories](#)

Explore the RIGOL DS1000Z Series Digital Oscilloscope, a high-performance and economic solution offering UltraVision technology, mixed signal capabilities, and detailed specifications for design, debugging, and educational applications.

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1 User s Guide MSO1000Z DS1000Z Series Digital Batronix RIGOL Document Overview Main Topics of this Manual Chapter Quick Start Introduce the preparations before using connection with furnishing use or performance manual as well any information contained Any part document is forbidden to be copied photocopied rearranged without prior written approval Product Certification guarantees that product conforms national and industrial MSO UserGuide EN Plus 82fai3h5wg8220a0l3ilfiz1 wpengine netdna ssl 2015 09 batronix files Rigol Oszilloskope DS 80

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RIGOL TECHNOLOGIES, INC. ... Z-S Plus 70 MHz 4 2 DS1104Z Plus 100 MHz 4 -- 16 1 16 1 DS1074Z Plus 70 MHz 4 -- 16 1 **DS1054Z** 50 MHz 4 -- -- Note 1 : Need to be upgraded to MSO using the MSO upgrade option. Manua...

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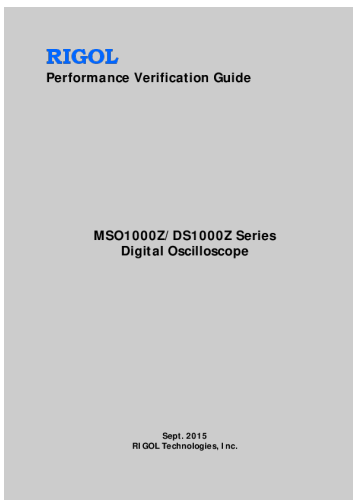
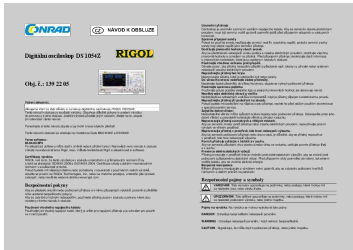


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MSO/DS1000Z Series Digital Oscilloscope Analog channel bandwidth: 100 MHz, 70 MHz, 50 MHz 4 analog c ... Hardware Real-time Waveform Recording and Playback Functions Std. Probes Built-in 2Ch 25MHz Source **DS1054Z** DS1074Z Plus MSO1074Z DS1074Z-S Plus MSO1074Z-S DS1104Z Plus MSO1104Z DS1104Z-S Plus MSO...

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DS1000Z Series Digital Oscilloscope Analog channel bandwidth: 100 MHz, 70 MHz, 50 MHz 4 analog chann ... ware Real-time Waveform Recording and Playback Functions Standard Probes Built-in 2Ch 25MHz Source **DS1054Z** DS1074Z Plus DS1074Z-S Plus DS1104Z Plus DS1104Z-S Plus 50 MHz 70 MHz 100 MHz 4 None ...

lang:en score:30 filesize: 6.47 M page_count: 12 document date: 2019-06-12

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Překlad 1392205 Digitální osciloskop Rigol DS1054Z Dočekal Frantisek manual rigol ds1054z digitalni 50 mhz 4kanalovy 1 gsas 24 mpts 8 bit s pameti dso asset conrad media10 add 160267 c1 cs 001392205ML00

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MSO/DS1000Z Series Digital Oscilloscope Analog channel Bandwidth: 100MHz,70MHz,50MHz 4 Analog channe ... rate Real Time waveform Record, Replay and Analysis function Std. Probes Built-in 2Ch 25MHz Source **DS1054Z** DS1074Z MSO1074Z DS1074Z-S MSO1074Z-S DS1104Z MSO1104Z DS1104Z-S MSO1104Z-S 50 MHz 70 ...

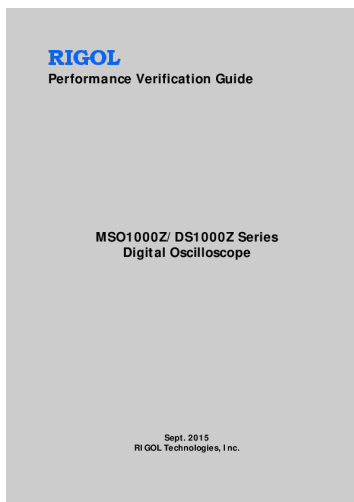
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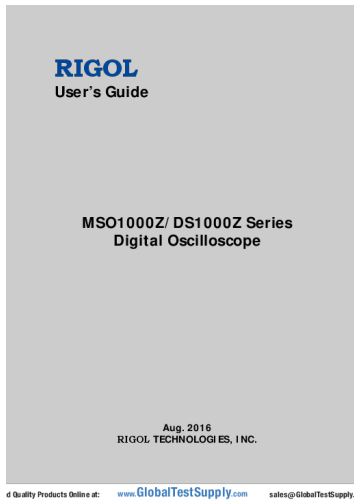
Test MeasurementFor decoding options please refer to Bus Analysis Guide Page 9 RIGOL MSO5000 Series Digital Oscilloscope 7 into RIGOL 2019 Product Catalogrekirsch at user html 1282834349 pix a media Pdf Catalog srsItid AfmBOoo6ut8nsGFqEHKhUvfKHZwrnTKUZHSCpKjqTuf 5BWIS 7Zq ||| Test Measurement Product Catalog Contents Digital Oscilloscope 3 MSO/DS7000 Series Digital Os ... 074Z DS1074Z Plus MSO1074Z DS1104Z-S DS1104Z-S Plus MSO1104Z-S DS1074Z-S DS1074Z-S Plus MSO1074Z-S **DS1054Z** Analog BW 100MHz Analog Channels Digital Channels MSO -- 16 4 -- 70MHz 16 50MHz -- ... lang:en **score:29** filesize: 9.07 M page_count: 70 document date: 2019-04-16



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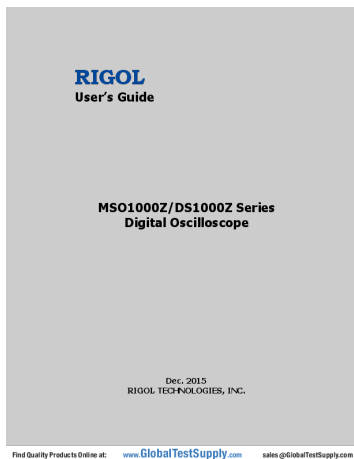
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Test Measurement Product Catalog 1 Contents Digital Oscilloscopes 3 MSO8000 Series Digital Os ... S model 21 Key Specifications Model DS1104Z Plus DS1104Z-S Plus DS1074Z Plus DS1074Z-S Plus **DS1054Z** DS1202Z-E Analog BW Analog Channels Digital Channels PLUS 100MHz 16 70MHz 4 16 50MHz -... lang:en **score:29** filesize: 19.75 M page_count: 70 document date: 2020-02-13



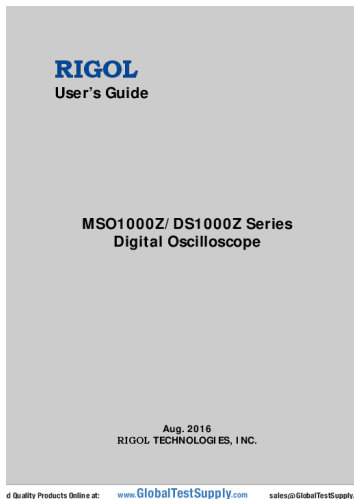
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16 1 16 1 DS1074Z Plus 70 MHz 4 -- 16 1 **DS1054Z** 50 MHz 4 -- -- Note 1 : Need to
be upgraded to MSO using the MSO upgrade option. Manua...
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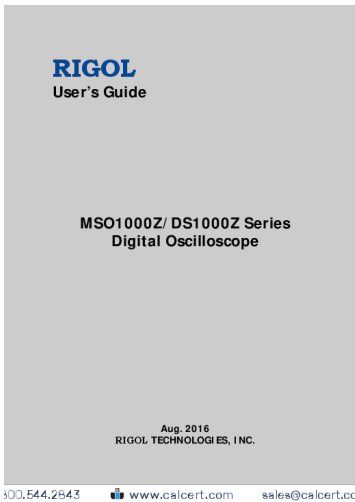
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16 1 DS1074Z Plus 70 MHz 4 -- 16 1 **DS1054Z** 50 MHz 4 -- -- Note 1 : Need to be
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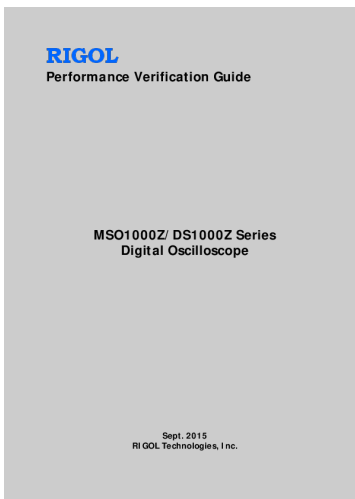
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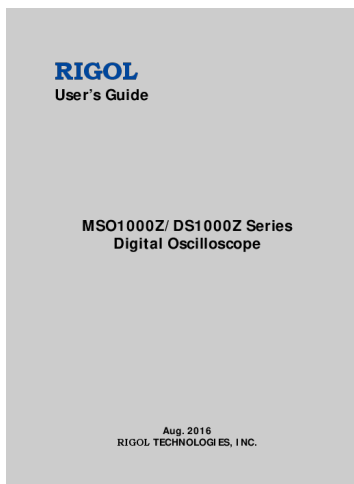
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D Bits 7 bits 8 Quick Guide Resource CD User s Application Software |||
Produkt-Datenblatt Technische Daten, Spezifikationen Kontakt Technischer und
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function Std. Probes Built-in 2Ch 25MHz Source **DS1054Z** DS1074Z MSO1074Z
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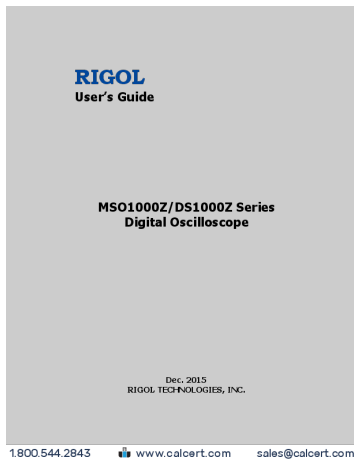
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16 1 16 1 DS1074Z Plus 70 MHz 4 -- 16 1 **DS1054Z** 50 MHz 4 -- -- Note 1 : Need to
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16 1 DS1074Z Plus 70 MHz 4 -- 16 1 **DS1054Z** 50 MHz 4 -- -- Note 1 : Need to be
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MSO/DS1000Z Series Digital Oscilloscope Analog channel bandwidth: 100 MHz, 70 MHz, 50 MHz 4 analog c ... Hardware Real-time Waveform Recording and Playback Functions Std. Probes Built-in 2Ch 25MHz Source **DS1054Z** DS1074Z Plus MSO1074Z DS1074Z-S Plus MSO1074Z-S DS1104Z Plus MSO1104Z DS1104Z-S Plus MSO...

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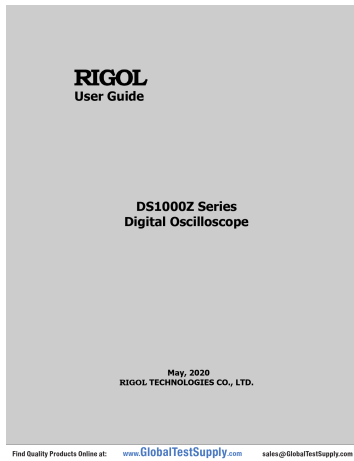


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