

OWON VDS1022I

OWON VDS1022I USB PC Oscilloscope User Manual

Model: VDS1022I

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1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, operation, and maintenance of your OWON VDS1022I USB PC Oscilloscope. Please read this manual thoroughly before operating the device to ensure optimal performance and safety. The OWON VDS1022I is a compact, high-performance USB oscilloscope designed for various electrical measurement and analysis tasks, featuring USB isolation for enhanced signal integrity and PC protection.

2. PRODUCT OVERVIEW

2.1 Package Contents

Upon unpacking, verify that all items listed below are present and in good condition. If any items are missing or damaged, contact your supplier.



Image: The OWON VDS1022I USB PC Oscilloscope, two oscilloscope probes, a USB cable, a software CD, and a quick guide manual are included in the package.

- OWON VDS1022I USB PC Oscilloscope Unit
- USB Cable
- Oscilloscope Probes (2 units)
- Software CD
- Quick Guide

2.2 Key Features

- Up to 25MHz bandwidth and 100MS/s real-time sample rate.
- 5K record length for detailed waveform capture.
- Friendly user interface with FFT, X-Y mode, and dual waveform display.
- Multiple trigger options: edge, video, slope, pulse, and alternate.
- USB isolation for reduced signal interference and enhanced PC protection.
- USB bus powering, eliminating the need for an external power adapter.
- Compact and ultra-thin body design for easy portability.

2.3 Device Layout

Familiarize yourself with the various ports and indicators on the oscilloscope unit.



Image: Side view of the OWON VDS1022I, highlighting the USB Port, Probe Compensation output (5V 1KHz), MULTI Port, Signal Input of Channel 2 (CH2), and Signal Input of Channel 1 (CH1).

- **USB Port:** Connects to your PC for data transfer and power.
- **Probe Compensation (5V 1KHz):** Output for adjusting probe compensation.
- **MULTI Port:** Multi-function port for additional capabilities.
- **CH2 (Channel 2):** Signal input for the second channel.
- **CH1 (Channel 1):** Signal input for the first channel.



Image: Top and bottom views of the OWON VDS1022I. The bottom view shows the "Isolation" label, indicating the USB isolation feature.

The device features USB isolation, which helps to reduce noise and protect your computer from potential electrical surges from the measurement circuit.

3. SETUP GUIDE

3.1 Software Installation

1. Insert the provided software CD into your computer's CD-ROM drive.
2. Locate and run the setup executable file. Follow the on-screen instructions to install the OWON oscilloscope software and necessary drivers.
3. Alternatively, download the latest software and drivers from the official OWON website. Ensure you select the correct model (VDS1022I) and operating system.
4. During installation, ensure that the oscilloscope is NOT connected to the PC until prompted, or until the software installation is complete. This helps ensure proper driver recognition.

3.2 Connecting the Oscilloscope

1. Connect one end of the supplied USB cable to the USB port on the OWON VDS1022I unit.
2. Connect the other end of the USB cable to an available USB port on your PC. The device is bus-powered, so no external power adapter is required.
3. Your operating system should detect the device and, if drivers were installed correctly, recognize it as an OWON VDS1022I oscilloscope.

3.3 Probe Connection and Compensation

1. Connect the oscilloscope probes to the CH1 and CH2 input BNC connectors on the device.
2. Attach the probe ground clip to a known ground point in your circuit.
3. To compensate the probe, connect the probe tip to the 5V 1KHz Probe Compensation output.
4. Adjust the compensation screw on the probe body until a flat-top square wave is displayed on the software interface. This ensures accurate signal representation.

4. OPERATING INSTRUCTIONS

4.1 Launching the Software

After successful installation and connection, launch the OWON oscilloscope application from your desktop shortcut or Start Menu. The software interface will display the waveform acquisition window.

4.2 Basic Waveform Display

- **Vertical Scale (Volts/Div):** Adjust the vertical sensitivity for each channel using the controls in the software. This determines the voltage represented by each vertical division on the display.
- **Horizontal Scale (Time/Div):** Adjust the horizontal time base to control the time represented by each horizontal division. This affects the displayed duration of the waveform.
- **Input Coupling:** Select DC, AC, or GND coupling for each channel as needed.
 - **DC:** Displays both AC and DC components of the signal.
 - **AC:** Blocks the DC component, displaying only the AC component.
 - **GND:** Disconnects the input signal, displaying a ground reference line.

4.3 Triggering

Triggering stabilizes repetitive waveforms and captures single-shot events. The VDS1022I supports various trigger modes:

- **Edge Trigger:** Triggers on a rising or falling edge of the input signal at a specified voltage level.
- **Video Trigger:** Triggers on standard video signals.
- **Slope Trigger:** Triggers on a signal's rise or fall time.
- **Pulse Trigger:** Triggers on pulses of specific width.
- **Alternate Trigger:** Allows triggering on two different channels alternately.

Adjust the trigger level and mode within the software to achieve a stable waveform display.

4.4 Measurements and Analysis

- **Automatic Measurements:** The software provides automatic measurements for parameters like Vpp, Vmax, Vmin, Freq, Period, RMS, etc. Select desired measurements from the menu.

- **Cursors:** Use voltage and time cursors to manually measure specific points on the waveform.
- **FFT (Fast Fourier Transform):** Access the FFT function to analyze the frequency components of your signal.
- **X-Y Mode:** Display the relationship between two signals in X-Y format, useful for phase comparisons or Lissajous figures.

5. 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, ensuring no liquid enters the device.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Probe Care:** Handle probes carefully. Avoid bending or stressing the cables excessively. Keep probe tips clean.
- **Software Updates:** Periodically check the OWON website for software and firmware updates to ensure optimal performance and access to new features.

6. TROUBLESHOOTING

6.1 Device Not Recognized by PC

- Ensure the USB cable is securely connected to both the oscilloscope and the PC.
- Verify that the correct drivers have been installed. Reinstall drivers if necessary, following the instructions in Section 3.1.
- Try connecting to a different USB port on your PC.
- Restart your computer and try again.

6.2 No Waveform Display or Unstable Waveform

- Check probe connections to the device and the circuit under test. Ensure ground clips are properly connected.
- Verify that the input coupling (DC/AC/GND) is set appropriately for your signal.
- Adjust the vertical (Volts/Div) and horizontal (Time/Div) scales to match the expected signal characteristics.
- Adjust the trigger level and trigger mode. An unstable waveform often indicates an incorrect trigger setting.
- Ensure the signal source is active and producing a signal within the oscilloscope's measurement range.

6.3 Software Issues or Crashes

- Ensure your operating system meets the minimum requirements for the OWON software.
- Update the software to the latest version from the OWON website.
- Close other demanding applications that might be consuming system resources.
- If issues persist, try reinstalling the software.

6.4 Limited Bandwidth or Signal Distortion

- The VDS1022I has a 25MHz bandwidth. Signals exceeding this frequency may be attenuated or

distorted.

- Ensure probes are correctly compensated (refer to Section 3.3).
- For high-frequency measurements, ensure proper grounding and minimize cable lengths to reduce noise.

7. SPECIFICATIONS



Image: Dimensions of the OWON VDS1022I oscilloscope, showing approximate measurements of 180mm (7.09in) length, 125mm (4.92in) width, and 23mm (0.91in) thickness.

Parameter	Value
Bandwidth	25 MHz
Channels	2 + 1 (external trigger)
Sample Rate	100 MS/s (real-time)
Horizontal Scale (s/div)	5 ns/div ~ 100 s/div (1-2-5 step)
Rise Time	≤ 14 ns

Parameter	Value
Record Length	5K points
Input Coupling	DC, AC, GND
Input Impedance	1 M Ω $\pm$ 2%, in parallel with 10 pF $\pm$ 5 pF
Channels Isolation	50Hz: 100:1, 10MHz: 40:1
Max Input Voltage	400V (PK - PK) (DC+AC, PK - PK)
DC Gain Accuracy	$\pm$ 3%
Probe Attenuation Factor	1X, 10X, 100X, 1000X
LF Respond (AC, -3dB)	$\geq$ 5Hz (at input, AC coupling, -3dB)
Sampling Rate / Relay Time Accuracy	150 ps
Interpolation	sin(x) / x
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)
Vertical Sensitivity	5 mV/div ~ 5 V/div
Communication Interface	USB 1.1 (isolation)
Product Dimensions	6.69 x 4.72 x 0.71 inches (170 x 120 x 18 mm); 1.46 Pounds (0.66 kg)
Manufacturer	OWON

8. WARRANTY AND SUPPORT

OWON products are designed and manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official OWON website. In case of technical issues, questions, or service requests, please contact OWON customer support through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

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Related Documents - VDS1022I

 OWON HDS200 Dual Channel Series Handheld Oscilloscope Quick Guide ■ HDS272 (S) ■ HDS242 (S) For product support, visit www.owon.com.cn	OWON HDS200 Series Handheld Oscilloscope Quick Guide This quick guide provides essential information for operating the OWON HDS200 Series Handheld Oscilloscope. It covers product certification, safety precautions, detailed instructions for using the oscilloscope and multimeter functions, waveform generator operation, troubleshooting common issues, and maintenance procedures.
 OWON PDS Series Portable LCD Digital Storage Oscilloscope User Manual www.owon.com.cn	OWON PDS Series Portable LCD Digital Storage Oscilloscope User Manual Comprehensive user manual for the OWON PDS Series Portable LCD Digital Storage Oscilloscope, covering features, operation, safety, troubleshooting, and technical specifications.
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 OWON SDS1022 / SDS1102 Digital Storage Oscilloscope User Manual www.owon.com.cn	OWON SDS1022 / SDS1102 Digital Storage Oscilloscope User Manual - Comprehensive Guide This user manual provides detailed instructions and specifications for the OWON SDS1022 and SDS1102 Digital Storage Oscilloscopes, covering setup, operation, advanced features, troubleshooting, and technical details.
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 OWON SDS1000 Series Digital Storage Oscilloscope Specifications For product support, visit www.owon.com.cn	OWON SDS1000 Series Digital Storage Oscilloscope Specifications Detailed technical specifications for the OWON SDS1000 Series digital storage oscilloscopes, including models SDS1022, SDS1052, SDS1102, and SDS1202. Features bandwidth, sample rate, channels, display, and more.

General Warranty

OWON warrants that the product will be free from defects in materials and workmanship for a period of 3 years from the date of purchase of the product by the original purchaser from the OWON Company. The warranty period of accessories such as probe is 12 months. This warranty only applies to the original purchaser and is not transferable to the third party.

If the product proves defective during the warranty period, OWON either will repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product. Parts, modules and replacement products used by OWON for warranty work may be new or reconditioned like new performance. All replaced parts, modules and products become the property of OWON.

In order to obtain service under this warranty, customer must notify OWON of the defect before the expiration of the warranty period. Customer shall be responsible for packaging and shipping the defective product to the service center designated by OWON, and with a copy of customer proof of purchase.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. OWON shall not be obligated to furnish service under this warranty a) to repair damage resulting from attempts by personnel other than OWON representatives to install, repair or service the product; b) to repair damage resulting from improper use or connection to incompatible equipment; c) to repair any damage or malfunction caused by the use of non-OWON supplies; or d) to service a product that has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty of servicing the product.

Please contact the nearest OWON's Sales and Service Offices for services or a complete copy of the warranty statement.

For better after-sales service, please visit www.owon.com.cn and register the purchased product online.

Excepting the after-sales services provided in this summary or the applicable warranty statements, OWON will not offer any guarantee for maintenance definitely declared or issued, including but not limited to the regular guarantee for materiality and special-purpose acceptability. OWON should not take any responsibilities for any indirect, special or consequent damages.

For more detailed information, please see the help document of the software, you can open it by pressing F1 in the window of software.

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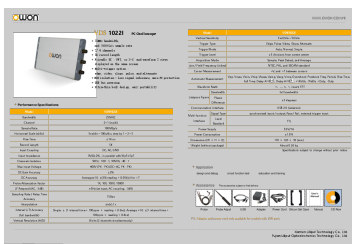
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WWW.OWON.COM.HK Relay Time Accuracy Interpolation Interval T Accuracy full bandwidth Vertical Resolution A/D **VDS1022I** 25MHZ 2 1 multi 100MSa/s 5ns/div100s/div, step by 125 14 ns 5K DC, AC, GND 1M2 in paralle...

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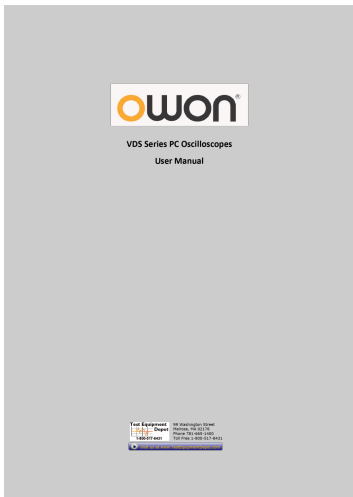
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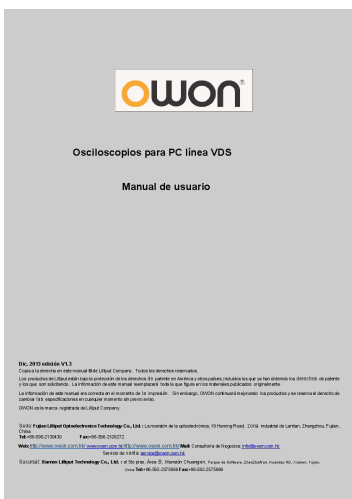
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Weight without package 5 kg Dimension W x H D 421 221 115 mm Working temperature 0~40 °C Storage

20 °C to 60 Power 100V~240V 50 60Hz Distortion and spurious response catalog img instructions

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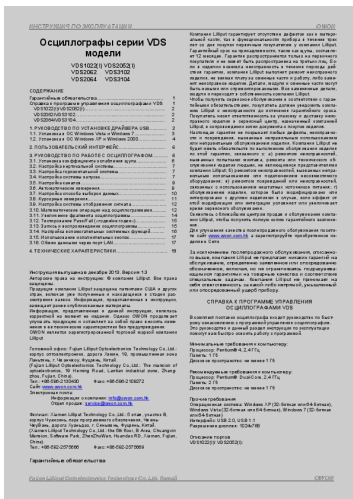
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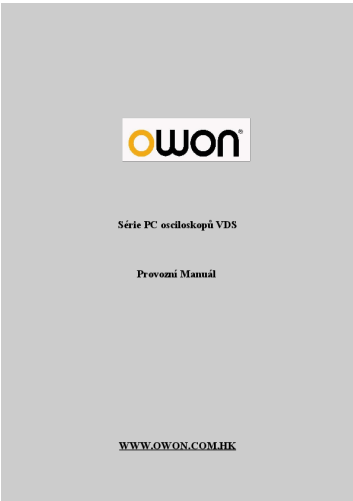
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owontme E mail info@owon cnFacebook fb me owontech PerformanceSpecifications Model VDS Series
PC Oscilloscope technical spec s files specifications USB Cable Adapter * Power Cord Silicon Gel Case
Manual CD Rom Soft Bag optional and power cord only available for models with LAN port 80 series
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portability SCPI supported LabVIEW supported only in VDS3102, and VDS3104
VDS1022I VDS1022 25MHZ VDS2062 VDS2064 60MHZ VDS3102 VDS3104
100MHZ Channel Sample Rate Horizon...
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[\[pdf\]](#) Specifications

hagin VDS1022 tme eu Document d1cfed3826e47f61f63a7b9255b332b3 Цифров осциллоскоп 25 МГц
100 MSa s 2 канален ВИКИВАТ VDS1022I OWON PC connected oscilloscopes TME Electronic
components 150759 150760 vikiwat userfiles productimages files Digital oscilloscope channel VIKIWAT
Fujian Lilliput Optoelectronics Technology Co Ltd Web owon cn owontme E mail info@owon Facebook fb
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BpawQlrunEnYtbq8rNxQyHEkaijOVx06MDq9SGZG pSWtme
AfmBOooJgwwDns5Ta6Oryx2qCeRH8RbZLP7so6A0FhvRsXOYUxRld2sZvikiwat ||| ||| . VDS Series PC
Oscilloscope Performance Specifications Model Up to 100MHz bandwidth, and max 1GS/s real-time
sample rate 2/ 4 channels Max 10M record length Friendly UI : FFT, or X-Y, and waveform 2 views
displayed on the same screen Mult
..... body design, easy
portability SCPI supported LabVIEW supported only in VDS3102, and VDS3104
VDS1022I VDS1022 VDS2062 VDS2064 VDS3102 VDS3104 Bandwidth 25MHZ
60MHZ 100MHZ Channel 2 1 m...
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Série PC osciloskopů VDS Provozní Manuál OWON COM HKLAN port volitelný síťový který lze použít k propojení s 4 USB napájení z nebo adaptérem komunikace 5 Vstup signálu kanálu czn 726 005 1img gme cz files eshop data 1 czn |||

Srie PC osciloskop VDS Provozn Manul WWW.OWON.COM.HK Vydn prosinec 2013, V1.3 Copy-Right vlastni ... tup signlu kanlu 2 5. Vstup signlu kanlu 1 Poznмка: VDS1022 I reprezentuje dva typy zazen, konkrtn **VDS1022I** a VDS1022. **VDS1022I** obsahuje izolaci, zatmco VDS1022 ji nem. Stejn jako VDS2052 I VDS2062/... lang:en score:18 filesize: 1.9 M page_count: 49 document date: 2014-03-14



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[pdf] Safety Datasheet Catalog

cdr Administrator OWON product catalogue v3 4 9 2022 Ampe Kim Ac Owon Cm240 2000A 600V Imall imall vn 06 |||

Product Catalogue Spectrum Analyzers Digital Storage Oscilloscopes Arbitrary Waveform Generators Pro ... Measurement Waveform Math Communication Interface Power Supply Dimension W x H x D Device Weight **VDS1022I** 25MHz 2Channel Multi 100MS/s VDS1022 5ns/div - 100s/div, step by 1 - 2 - 5 5K 1M 2 , ... lang:en score:17 filesize: 3.8 M page_count: 64 document date: 2022-01-25

OWON

VDS Series PC Oscilloscope

- Up to 100MHz bandwidth and max 100ps real-time sample rate
- 2+4 channels
- Max 10M record length
- Friendly UI: FFT, or X-Y, and waveform 2 views displayed on the same screen
- Multi-trigger option: edge, video, slope, pulse, and alternate
- USB isolation - less signal interference, more PC protection
- USB bus powering, and LAN remote control (optional)
- Ultra-thin body design, easy portability
- SCPI supported
- LabVIEW supported (only in VDS3102, and VDS3104)

Performance Specifications	VDS1020	VDS1022	VDS2022	VDS3024	VDS3102	VDS3104
Bandwidth	25MHz	60MHz	100MHz	100MHz	100MHz	100MHz
Channel	2+1 (multi)	4+1 (multi)	2+1 (multi)	4+1 (multi)	4+1 (multi)	4+1 (multi)
Sample Rate	100MS/s	100MS/s	100MS/s	100MS/s	100MS/s	100MS/s
Horizontal Scale (s/div)	5ns/div - 100ns/div, step by 1 - 2 - 5	5ns/div - 100ns/div, step by 1 - 2 - 5	5ns/div - 100ns/div, step by 1 - 2 - 5	5ns/div - 100ns/div, step by 1 - 2 - 5	5ns/div - 100ns/div, step by 1 - 2 - 5	5ns/div - 100ns/div, step by 1 - 2 - 5
Rise Time	<10ns	<10ns	<10ns	<10ns	<10ns	<10ns
Record Length	5M	10M	5M	10M	10M	10M
Input Coupling	DC, AC, GND	DC, AC, GND	DC, AC, GND	DC, AC, GND	DC, AC, GND	DC, AC, GND
Input Impedance	1MΩ±2%, or 50Ω with 1% tolerance	1MΩ±2%, or 50Ω with 1% tolerance	1MΩ±2%, or 50Ω with 1% tolerance	1MΩ±2%, or 50Ω with 1% tolerance	1MΩ±2%, or 50Ω with 1% tolerance	1MΩ±2%, or 50Ω with 1% tolerance
Channel Isolation	Step: 100 - 1, 10MHz - 60 - 1	Step: 100 - 1, 10MHz - 60 - 1	Step: 100 - 1, 10MHz - 60 - 1	Step: 100 - 1, 10MHz - 60 - 1	Step: 100 - 1, 10MHz - 60 - 1	Step: 100 - 1, 10MHz - 60 - 1
Max Input Voltage	600V (PK-PK) (DC/AC, PK-PK)	600V (PK-PK) (DC/AC, PK-PK)	600V (PK-PK) (DC/AC, PK-PK)	600V (PK-PK) (DC/AC, PK-PK)	600V (PK-PK) (DC/AC, PK-PK)	600V (PK-PK) (DC/AC, PK-PK)
DC Gain Accuracy	±3%	±3%	±3%	±3%	±3%	±3%
DC Accuracy	Average±10%, 0.1% reading + 0.004V for <1V	Average±10%, 0.1% reading + 0.004V for <1V	Average±10%, 0.1% reading + 0.004V for <1V	Average±10%, 0.1% reading + 0.004V for <1V	Average±10%, 0.1% reading + 0.004V for <1V	Average±10%, 0.1% reading + 0.004V for <1V
Probe Attenuation Factor	1X, 10X, 100X, 1000X	1X, 10X, 100X, 1000X	1X, 10X, 100X, 1000X	1X, 10X, 100X, 1000X	1X, 10X, 100X, 1000X	1X, 10X, 100X, 1000X
LP Frequency (Hz)	<100	<100	<100	<100	<100	<100
Sampling Rate / Relay Time Accuracy	Interpolation: 8000 (1)	Interpolation: 8000 (1)	Interpolation: 8000 (1)	Interpolation: 8000 (1)	Interpolation: 8000 (1)	Interpolation: 8000 (1)
Internal 1/1 Accuracy (Full bandwidth)	Single: ±1% Internal time: 100ppm + reading + 0.004V	Single: ±1% Internal time: 100ppm + reading + 0.004V	Single: ±1% Internal time: 100ppm + reading + 0.004V	Single: ±1% Internal time: 100ppm + reading + 0.004V	Single: ±1% Internal time: 100ppm + reading + 0.004V	Single: ±1% Internal time: 100ppm + reading + 0.004V
Vertical Resolution (bits)	8 bits (2 channels simultaneously)	8 bits (2 channels simultaneously)	8 bits (2 channels simultaneously)	8 bits (2 channels simultaneously)	8 bits (2 channels simultaneously)	8 bits (2 channels simultaneously)
Vertical Sensitivity	5mV/div - 500V/div	5mV/div - 500V/div	5mV/div - 500V/div	5mV/div - 500V/div	5mV/div - 500V/div	5mV/div - 500V/div
Trigger Type	Edge, Pulse, Video, Slope, and Alternate	Edge, Pulse, Video, Slope, and Alternate	Edge, Pulse, Video, Slope, and Alternate	Edge, Pulse, Video, Slope, and Alternate	Edge, Pulse, Video, Slope, and Alternate	Edge, Pulse, Video, Slope, and Alternate
Trigger Mode	Auto, Normal, and Single	Auto, Normal, and Single	Auto, Normal, and Single	Auto, Normal, and Single	Auto, Normal, and Single	Auto, Normal, and Single
Trigger Level	±5 divisions from screen center	±5 divisions from screen center	±5 divisions from screen center	±5 divisions from screen center	±5 divisions from screen center	±5 divisions from screen center

Fujian Lipo Optoelectronics Technology Co., Ltd.
Web: www.owon.com.cn / www.owon.com.hk E-mail: sales@owon.com.cn Facebook: [owon.com.cn](https://www.facebook.com/owon.com.cn)

[pdf] Specifications Datasheet

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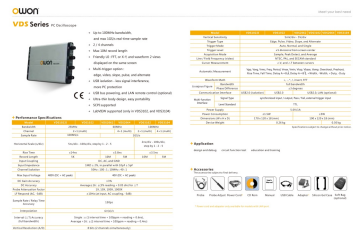
..... body design, easy portability SCPI supported LabVIEW supported only in VDS3102, and VDS3104 **VDS1022I** VDS1022 25MHZ VDS2062 VDS2064 60MHZ VDS3102 VDS3104 100MHZ Channel Sample Rate Horizon...

lang:en score:16 filesize: 2.53 M page_count: 2 document date: 2022-08-05



[\[pdf\]](#) User Manual Specifications Warranty Accessories

OWON VDS Series PC Oscilloscope UM v1 4 Lilliput R D dept DOC024769785 static chipdip ru lib 769 ||| VDS Series PC Oscilloscopes User Manual WWW.OWON.COM Mar. 2015 edition V1.4.4 Copyright Lilliput ... Channel 2 5. Signal input of Channel 1 Note: VDS1022 I represents two types of machines, they are **VDS1022I** and VDS1022. **VDS1022I** contains isolation, while VDS1022 does not contain isolation. The sam... lang:en score:14 filesize: 3.76 M page_count: 46 document date: 2023-02-21



[\[pdf\]](#) Datasheet

1 hagin VDS Datasheet Owon VDS1022I USB Oszilloskop VDSdatasheet static eleshop nl mage media ||| ... lang:en score:14 filesize: 3.14 M page_count: 1 document date: 2017-05-03

[\[pdf\]](#) User Manual Instructions Frequently Asked Questions Specifications Safety Datasheet Accessories Catalog

ÿp^ B 3 ÿp A @ 8 supereyes ru F O W NEquipping with OWON s original magnifier function it can observe the signal low down to 31 25µV div 2 platform restore waveform detail fully 4 2OWON catalogsupereyes img instructions catalog srsltid AfrmBOOrXOVxLt5mERDtPnd dnXotXmZq3wxd2SVhfw3Wk6CbKLEqF70e NF 2Near Field Probe includes Four near field probes N SMA adapter SMAcable Frequency range 30MHz 3GHz Cable Adaptor SMA OWON catalogOWON dnXotXmZq3wxd2SVhfw3Wk6CbKLEqF70esupereyes AfrmBOoq3qLMetFh40lu8 LZROAqZR6nrOngUDz3Z2kLislUhlE9ozSK SMA Specifications subject change without prior notice User Manual Power Cord CD Rom Optional AccessoriesOWON LZROAqZR6nrOngUDz3Z2kLislUhlE9ozSKsupereyes AfrmBOoqJcX zZN70hRvTHsXRswcF VQddTW0458odSKAtAGZYAWe0W90 AccessoriesP4000 Series Single Channel Linear DC Supply MSO7102T mixed LA supported DSO 100MHz bandwidth and 1GS real time sample rateOWON VQddTW0458odSKAtAGZYAWe0W90supereyes AfrmBOoL1Wggu3is60CUegvf3WJak HejSC2YLuG S iPGOd45e2x96f rateSpecifications Page 37 Model TH3100A Attenuation Ratio 100X Bandwidth 100MHzOWON iPGOd45e2x96fsupereyes AfrmBOooz6H1jg8jfJgzN1IICA7G4Z1rXKZRhp6gl8TVPL1BuFI7 ckJg 100MHzHDS2062M 60MHz handheld introduced XDS series introduce 12 14 bits hardware ADC precision is 16 64 times against other oscilloscope on marketOWON ckJgsupereyes AfrmBOOpP497TSou3eYmccqh38QAYPmzURBeNa04krU70r0AkZmnXDCcm marketXDS market Equipping magnifier OWON AfrmBOOpP497TSou3eYmccqh38QAYPmzURBeNa04krU70r0AkZmnXDCcmsupereyes AfrmBOopl UwUCnMDKWWP20e2afFI4XJUtdfPsa9jFLJyvTEuW1QVOi7C magnifier Digital IF technology offers a minimum of 10Hz allowing excellent resolution when separation closely spaced signals required Offers a OWON UwUCnMDKWWP20e2afFI4XJUtdfPsa9jFLJyvTEuW1QVOi7Csupereyes AfrmBOoqwP0oSMc4xxrRLFncr1Sy7dgkw8moOSsyqBHyIToSVtcRC9av a XDS AfrmBOoqwP0oSMc4xxrRLFncr1Sy7dgkw8moOSsyqBHyIToSVtcRC9avsupereyes AfrmBOooBtHur4UxUO5c6Qf8OTh1SOu5oxnk2K5KIUUKUjZReKFIP sPN magnifier XDS AfrmBOOp5X69YqXZCJLJqVmjmymjrmQzPtEj55bOHdIFyOXuHfBCQmu0eJsupereyes sPNsupereyes AfrmBOOrTnyLPFhUnZV UyN6w5QGnQIXuSrwyctS gBmNmu Au GqvPrw magnifier Specifications XDS3062A XDS3102A XDS3102AP* XDS3202A* XDS3102 XDS3202E XDS3202* XDS3302* 60

MHzOWON GqvPrwsupereyes AfmBOOpSqxY4vp7Q1txLhA78CTQyGnm6ZJL4KYN1 zrvSliymbq6p0Vj
яю` C AfmBOOox6ulE5qBREC x gl3qOzxNqyhrzU cLKeqzrXSss zL9id78Nsupereyes Няю` AfmBOOo
Ka3hj1AbsXd5JuFykYKLCxfQCtrToLgWJklnZrp2tZCI9josupereyes AfmBOOrMDpJl kD
AdConvfbhwMnBUc8o3cYGoYvgEpJiRqDZv2mRzGusupereyes catalogv1OWON
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AfmBOOqB8j 4g9Qv3 6bEi1H41mkOP5 kFbcuFnDJhcGoqz5bypDfZ3nsupereyes AfmBOOp1Qr5kQbaKl
DCJXlOfnio W0bkw FMpMdWkiCnjDsR9aMcX esupereyes AfmBOOqPEyT73HI5kgL
hUvzETrcmpvlxmCShutynSmNtd Zl6Wo22Xmsupereyes AfmBOOoGgWPItiTRT068wqn0qsZT5f303jEC
H8yCE6GKQSCn7 udnqosupereyes AfmBOOpIO3B3MPIu8803K2f pL3
kfaQllaaXXjS6GqV4GXtqlC9zqWfsupereyes
AfmBOOruUKZeqFCnjf6iJlqjrR3KJMBogi6MoP47U1pslwlLEhl ea9wsupereyes AfmBOOr
j1zU30m7jGDqFyNtM 3YfCU5ea6M0HefO7S qmjketkweXctsupereyes 2Equipping
6RvxszsNb1A1UHDB8Dj1jn5hDJyAsupereyes
AfmBOOoHwERnxUBKLBftsMOU2p3k7ohjWsMeZTu92pvvpVJYjDElJLMF
AfmBOOoHwERnxUBKLBftsMOU2p3k7ohjWsMeZTu92pvvpVJYjDElJLMFsupereyes
xME6vnssRVhnyEGecnvkHRBkh6hYhpAqAnL4YmiyMzT60dej AfmBOOpP
cZobKY1kovExVcFKgT8ww6qWy8khE9ozmpJn52afwgjToBsupereyes
AfmBOookj42CBwuvjFPtKucn8J6DaPeBGuePvD6Q1svK5ebttOa5bvjFsupereyes
AfmBOOoYoZGSOsX4u17o zC6pryk0vgHbBluC40DcPtc1N4nquAettRASupereyes
AfmBOOoEJZeTb67tKwDKmbO19rusFkmQ3mHrk6lth9C9Fe7xMYdSRrMOSupereyes 2PDS5022 large 7
color LCD bench type HDS1022M first fine quality in 1 created by China high def MSO5022S LA OWON
xME6vnssRVhnyEGecnvkHRBkh6hYhpAqAnL4YmiyMzT60dejsupereyes
AfmBOOrnInvCNJR4XvlR1Xa0fAsYv99KmqWAAOivUga3S LnBkhvBRhl
AfmBOOo9HLEPDUKFwyNgdJW14084 ulbORfcxXf9Bxswdlz93Gzpawisupereyes
AfmBOOrUPvGgyaGEWoFO9 eZsufRrFTApnHRkzaiyc9v6ioMft6VNEa1supereyes AfmBOOq
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lo7TBokJYSCEl0ZxzuHDogGpwXCAsupereyes
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ztFpzt7GWnzlqThKshF9mABEL FZducRQEgssupereyes AfmBOOpPaYpbE
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AfmBOOpkm3Ts6hOuDUbbjINn cQAH02y84roF2j UxYjejqYPw6jjhqVsupereyes ||| ||| Product Catalogue
Spectrum Analyzers Digital Storage Oscilloscopes Arbitrary Waveform Generators Programmable DC
Power Supplies PC Oscilloscopes Digital Multimeters Meeting your needs product line - Created by Fujian
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Product Catalogue Spectrum Analyzers Digital Storage Oscilloscopes Arbitrary
Waveform Generators Pro ... tability SCPI supported LabVIEW supported only in
VDS3102 Performance Specifications Model **VDS1022I** VDS1022 VDS2062 VDS3102
Bandwidth 25MHz 60MHz 100MHz Channel 2 1 multi Sample R...
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- Digital Storage Oscilloscopes
- Addressing Oscilloscope Generators
- Frequency-to-Time Power Analyzers
- RF Oscilloscopes
- Digital Multimeters

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