

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [BSIDE](#) /
- › [BSIDE O1 Automotive Oscilloscope Multimeter Instruction Manual](#)

### BSIDE O1

# BSIDE O1 Automotive Oscilloscope Multimeter Instruction Manual

Model: O1  
Brand: BSIDE

## 1. PRODUCT OVERVIEW

---

The BSIDE O1 is a versatile 2-in-1 handheld device combining the functionalities of an oscilloscope and a digital multimeter. It features a portable color display, a rechargeable battery, and capabilities for data storage and export. This instrument is designed for accurate measurements in various electrical and automotive applications.

# 2-IN-1 Oscilloscope Multimeter



Image 1: The BSIDE O1 device displaying both its oscilloscope and multimeter interfaces on its color screen.

## Key Features:

- **2-in-1 Oscilloscope Multimeter:** Combines a 10MHz bandwidth oscilloscope with a true RMS digital multimeter.
- **Portable Color Display:** Features a 2.8-inch screen for clear readings.
- **Rechargeable Battery:** Equipped with a 2000mA rechargeable battery and charging cable for extended use.
- **Comprehensive Measurement Modes:** Measures AC/DC voltage, AC/DC current, resistance, capacitance, diode, continuity, and V-Alert (non-contact voltage detection).
- **Data Storage & Export:** Allows saving and exporting tested data to a computer or flash drive.
- **Additional Functions:** Includes MAX/MIN/AVG value measurement, auto-calibration, memory function, and a bright LED flashlight.
- **Protective Carrying Case:** Comes with a high-quality carrying case for portability and protection.

## 2. SETUP

## 2.1 Package Contents

Before starting, ensure all items are present in the package:

- 1 x Handheld Oscilloscope Multimeter (BSIDE O1)
- 1 x Test Leads (Red and Black)
- 1 x Carrying Case
- 1 x Charging Cable
- 1 x User Manual



Image 2: The BSIDE O1 Oscilloscope Multimeter shown with its included test leads, charging cable, and user manual.

## 2.2 Charging the Battery

The device is powered by a rechargeable 2000mA Lithium Ion battery. Before first use, or when the low battery indicator appears, charge the device using the provided charging cable.

1. Connect the charging cable to the charging port on the device.

2. Connect the other end of the charging cable to a suitable USB power adapter (not included) or a computer USB port.
3. The charging indicator will illuminate, typically red during charging and green when fully charged.



Image 3: The BSIDE O1 device being charged via its charging cable, indicating its rechargeable nature.

### 2.3 Connecting Test Leads

For multimeter functions requiring direct contact, connect the test leads:

1. Insert the black test lead into the 'COM' (Common) input jack.
2. Insert the red test lead into the 'INPUT' jack.
3. Ensure connections are secure before taking any measurements.

## 3. OPERATING INSTRUCTIONS

---

The BSIDE O1 offers both oscilloscope and multimeter modes, accessible via the function buttons and rotary switch.

### 3.1 Power On/Off

Press and hold the power button to turn the device on or off.

### 3.2 Multimeter Mode

Rotate the central dial to select the desired measurement function. The 2.8-inch TFT color display will show the readings.

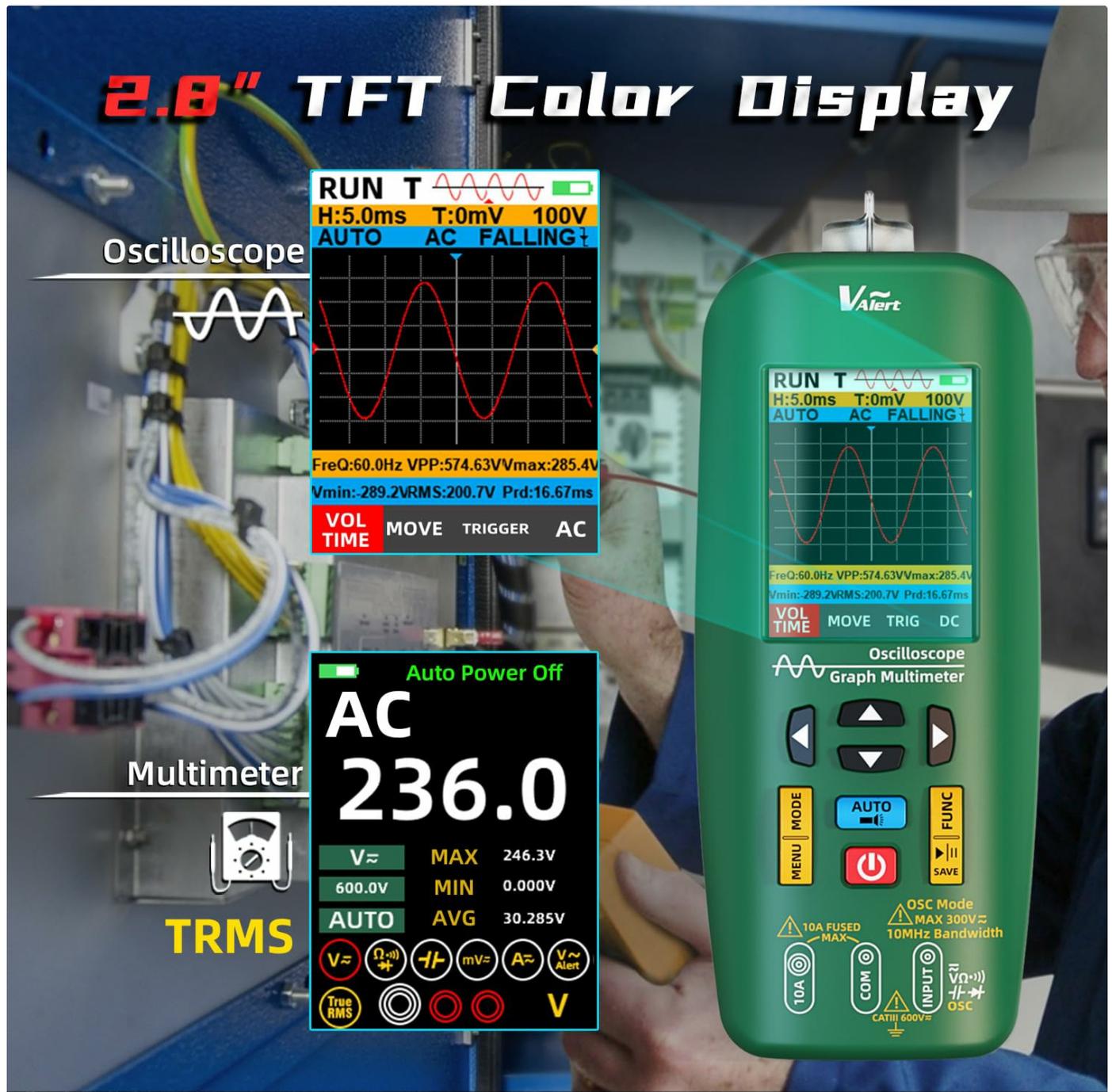


Image 4: The 2.8-inch TFT color display of the BSIDE O1 showing an AC voltage measurement in multimeter mode.

- **Voltage (AC/DC):** Select 'V~' for AC voltage or 'V=' for DC voltage. Connect test leads in parallel to the circuit.
- **Current (AC/DC):** Select 'A~' for AC current or 'A=' for DC current. For clamp measurements, open the clamp and enclose a single conductor. For direct current measurement, connect test leads in series with the circuit.
- **Resistance ( $\Omega$ ):** Select ' $\Omega$ '. Connect test leads across the component to measure resistance.
- **Capacitance (F):** Select 'F'. Connect test leads across the capacitor.
- **Diode Test:** Select the diode symbol. Connect test leads across the diode to check its forward voltage drop.
- **Continuity Test:** Select the continuity symbol. The device will beep if there is a continuous path (low resistance).
- **V-Alert (Non-Contact Voltage Detection):** Select 'NCV'. Hold the device near a live AC voltage source to detect its

presence without physical contact.

### 3.3 Oscilloscope Mode

To enter oscilloscope mode, select the oscilloscope symbol on the rotary switch. The device will display waveforms, allowing for detailed analysis of electrical signals.

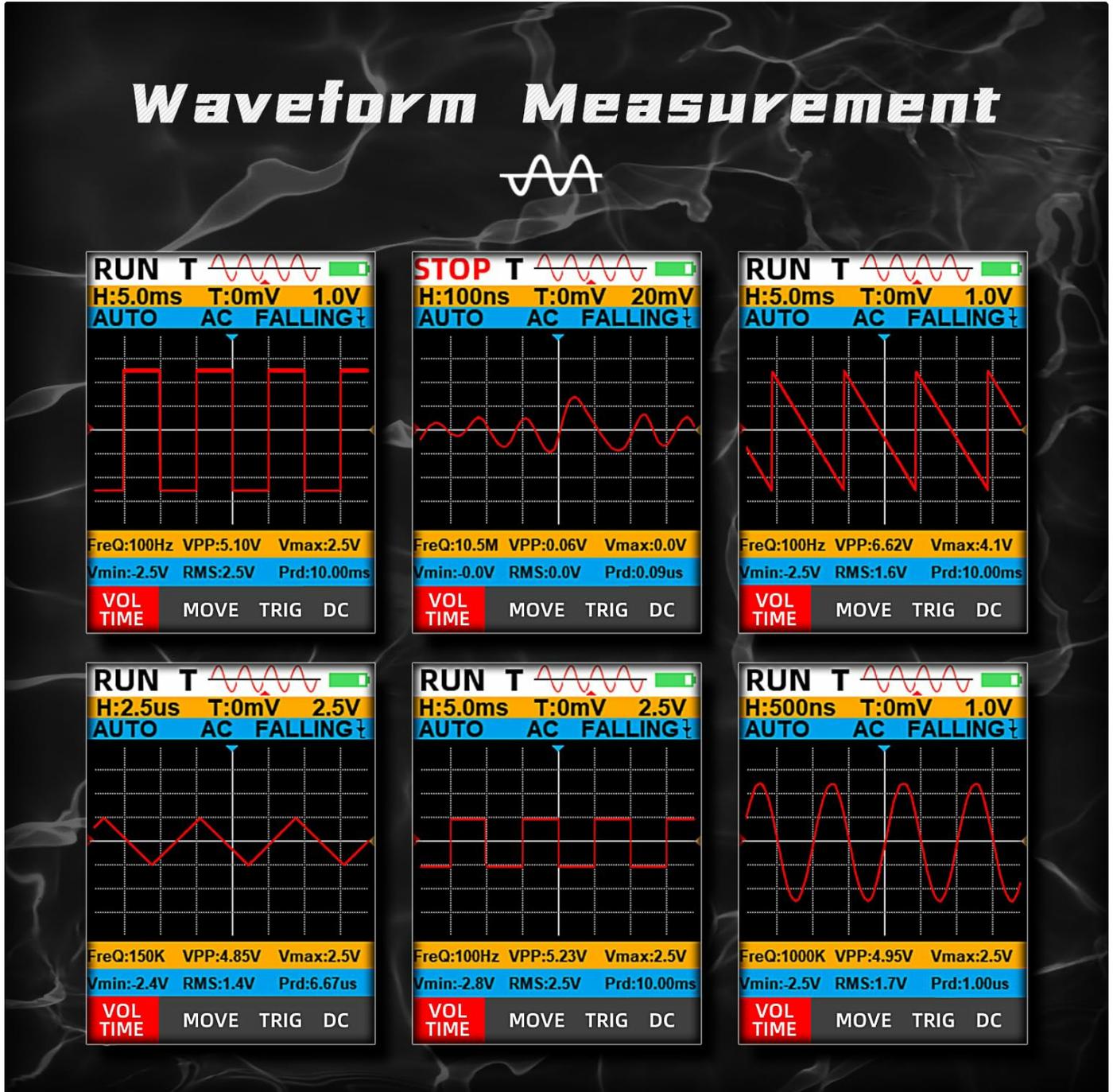


Image 5: Various waveform measurements shown on the oscilloscope display of the BSIDE O1, illustrating its signal analysis capabilities.

- **Bandwidth:** 10MHz.
- **Real-time Sample Rate:** 48MSa/s.
- **Controls:** Use the 'VOL', 'TIME', 'MOVE', 'TRIG', and 'DC' buttons to adjust the waveform display, trigger settings, and vertical/horizontal scales.

### 3.4 Data Storage and Export

The BSIDE O1 allows you to store measurement data and export it for further analysis.

- **Save:** Press the 'SAVE' button to store current measurement data.

- **Export:** Connect the device to a computer using the charging cable. The stored data can then be accessed and exported. Refer to the on-screen menu for specific export options.



Image 6: The BSIDE O1 displaying icons related to efficient data storage and export functionality.

### 3.5 Additional Functions

- **Flashlight:** Press the flashlight button to activate the built-in LED flashlight for illumination in dark environments.
- **MAX/MIN/AVG:** Use the dedicated buttons to view maximum, minimum, and average values during measurements.

# Bright LED Flashlight



Image 7: The BSIDE O1 device with its bright LED flashlight activated, useful for working in low-light conditions.

## 4. MAINTENANCE

---

Proper maintenance ensures the longevity and accuracy of your BSIDE O1 device.

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the device in its provided carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** Recharge the battery regularly, even if the device is not frequently used, to maintain battery health. Avoid fully discharging the battery for extended periods.

## 5. TROUBLESHOOTING

---

If you encounter issues with your BSIDE O1, refer to the following common troubleshooting steps:

- **Device does not power on:** Ensure the battery is sufficiently charged. Connect the charging cable and allow it to

charge for at least 30 minutes before attempting to power on again.

- **Inaccurate readings:** Check that the test leads are correctly connected and not damaged. Ensure the correct measurement mode is selected for the task. For clamp measurements, verify that only a single conductor is enclosed within the clamp.
- **Display issues:** If the screen is frozen or unresponsive, try restarting the device. If the issue persists, ensure the battery is fully charged.
- **Data export failure:** Verify the charging cable is securely connected to both the device and the computer. Ensure the computer recognizes the device.

For persistent issues not resolved by these steps, please contact customer support.

## 6. SPECIFICATIONS

Feature	Specification
MAX Display	6000 counts
Screen Size	2.8 inch
Bandwidth	10MHz
Real-time Sample Rate	48MSa/s
Input Impedance	1M $\Omega$ , @16pf
Maximum Input Voltage	300V (DC+AC peak)
Horizontal SEC Range	100ns/div - 20s/div
Vertical Sensitivity	20mV/div - 100V/div
DC Voltage	60mV (0.01mV) $\pm(1\%+5)$ ; 600mV/6V/60V (0.1mV/0.001V/0.01V) $\pm(0.8\%+3)$ ; 600V (0.1V) $\pm(1\%+5)$
AC Voltage	60mV (0.01mV) $\pm(1.2\%+5)$ ; 600mV/6V/60V (0.1mV/0.001V/0.01V) $\pm(1\%+3)$ ; 600V (0.1V) $\pm(1.2\%+5)$
DC Current	6A/10A (0.001A/0.01A) $\pm(1.2\%+3)$
AC Current	6A/10A (0.001A/0.01A) $\pm(1.2\%+3)$
Resistance	600 $\Omega$ (0.1 $\Omega$ ) $\pm(1.2\%+5)$ ; 6k $\Omega$ /60K $\Omega$ /600K $\Omega$ (0.001K $\Omega$ /0.01K $\Omega$ /0.1K $\Omega$ ) $\pm(1.0\%+3)$ ; 6M $\Omega$ (0.001M $\Omega$ ) $\pm(1.2\%+5)$ ; 60M $\Omega$ (0.01M $\Omega$ ) $\pm(1.5\%+5)$
Capacitance	99.99nF (0.01nF) $\pm(5.0\%+20)$ ; 999.9nF/9.999 $\mu$ F/99.99 $\mu$ F/999.9 $\mu$ F (0.1nF/0.001 $\mu$ F/0.01 $\mu$ F/0.1 $\mu$ F) $\pm(4.5\%+5)$ ; 9.999mF/99.99mF (0.001mF/0.01mF) $\pm(5.0\%+10)$
Diode	Measures diodes within 3V
Continuity	Yes
V-Alert (Non-Contact Voltage Detection)	Yes

Feature	Specification
Power	2000mA battery (rechargeable)
Size	187 x 74 x 40.5 mm
Weight	269g

## 7. WARRANTY & SUPPORT

---

BSIDE products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official BSIDE website. Keep your purchase receipt as proof of purchase for warranty claims.

