

## YHNNH U0

# YHNNH BSIDE U0 Fork Digital Multimeter Instruction Manual

Model: U0

## 1. INTRODUCTION

The YHNNH BSIDE U0 Fork Digital Multimeter is a versatile electrical testing instrument designed for both professional and home use. It combines the functions of an electric pen, ammeter, and multimeter, offering capabilities such as AC/DC current measurement, AC/DC voltage, resistance, capacitance, frequency, temperature, fire line discrimination, and non-contact voltage detection. Its unique open-jaw fork design allows for safe and efficient current measurement without disconnecting the circuit.

## 2. SAFETY INFORMATION

Always adhere to basic safety precautions when using this multimeter to prevent personal injury or damage to the instrument. Improper use can result in electric shock or fire.

- Do not exceed the maximum input values specified for each measurement range.
- Ensure the test leads are in good condition, free from cracks or damage.
- Do not use the meter if it appears damaged or is not operating correctly.
- Always disconnect power to the circuit before making resistance, capacitance, or diode measurements.
- Be cautious when working with voltages above 30V AC RMS, 42V peak, or 60V DC, as these pose a shock hazard.
- Use the correct function and range for each measurement.
- Keep fingers behind the finger guards on the test probes during measurements.

## 3. PRODUCT OVERVIEW

The BSIDE U0 features a compact design with an open-jaw fork for current measurement and dedicated ports for test leads for other functions. It includes a color screen display for clear readings and intuitive controls.

# Electric pen current multimeter

3-in-1 function electric pen+ammeter+multimeter

Color screen display | Lithium ion direct charging

- ✓ AC/DC current
- ✓ AC/DC voltage/resistance/on/off
- ✓ Fire line discrimination
- ✓ Non contact voltage detection



MIN  
Enterprise unit



This image presents the BSIDE U0 Fork Digital Multimeter along with its red and black test leads. The display indicates various measurement modes, emphasizing its capabilities as an electric pen, ammeter, and multimeter with AC/DC current, voltage, resistance, and non-contact voltage detection.



A clear front view of the BSIDE U0 Fork Digital Multimeter, highlighting its compact design and digital display.

## 4. SETUP

The BSIDE U0 Multimeter is battery-powered and features Lithium-ion direct charging. Before first use, ensure the device is adequately charged.

1. **Charging:** Connect the multimeter to a suitable USB power source using the provided charging cable. The display will indicate charging status.
2. **Power On/Off:** Press and hold the power button (**U**) to turn the device on or off.
3. **Initial Check:** Upon startup, the device performs an automatic measurement and intelligent burn prevention check.

## 5. OPERATING INSTRUCTIONS

The BSIDE U0 features intelligent automatic range selection, simplifying operation. Select the desired function using the mode button.

### 5.1 Current Measurement (AC/DC)

The open-jaw fork design allows for non-contact current measurement up to 100A.

1. Select the AC or DC current mode.
2. Open the fork clamp and position it around a single conductor (wire) through which the current flows.
3. Ensure the conductor is centered within the fork for accurate readings.
4. Read the current value displayed on the screen. For DC current, a manual reset mode is supported.



The image displays the BSIDE U0 Fork Digital Multimeter in use, measuring current on an electrical cable. The open-jaw design allows for non-contact current measurement, simplifying testing in confined spaces.



This image shows the BSIDE U0 Fork Digital Multimeter's open-jaw clamp measuring current on a wire within an electrical panel, demonstrating its application in electrician maintenance tasks.

## 5.2 Voltage Measurement (AC/DC)

To measure voltage, use the provided test leads.

1. Insert the red test lead into the 'INPUT' terminal and the black test lead into the 'COM' terminal.
2. Select the AC or DC voltage mode.
3. Connect the test probes in parallel across the circuit or component you wish to measure.
4. Read the voltage value on the display.

# Automatic recognition and intelligent burn prevention

Novice/Electrician/Maintenance

Intelligent anti burn chip full gear overload protection Automatic measurement upon startup, achieving intelligent burn prevention



The multimeter's test leads are shown inserted into a wall socket, illustrating its use for voltage or resistance measurements. The device features automatic recognition and intelligent burn prevention for user safety.

## 5.3 Resistance, Capacitance, Frequency, and Temperature

For these measurements, use the test leads and select the appropriate mode.

1. Ensure the circuit is de-energized before measuring resistance or capacitance.
2. Connect the test leads to the component.
3. Select the desired measurement mode (Resistance, Capacitance, Frequency, or Temperature).
4. Read the value on the display.

## 5.4 Non-Contact Voltage (NCV) Detection (V~Alert)

The NCV function allows for detecting the presence of AC voltage without direct contact.

1. Select the NCV mode (often labeled 'V~Alert').
2. Bring the tip of the multimeter near the conductor or electrical outlet.
3. The device will indicate the presence of voltage through visual (LED) and/or audible alerts.



The image illustrates the V~Alert (non-contact voltage detection) function of the BSIDE U0 Multimeter, indicating the presence of voltage near circuit breakers without direct contact, enhancing safety during electrical work.

### 5.5 Fire Line Discrimination

This function helps identify live wires. Refer to the on-screen prompts or specific instructions in the device's internal menu for detailed usage.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your multimeter.

- **Cleaning:** Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery:** Recharge the Lithium-ion battery regularly, especially if the device will not be used for an extended period.
- **Test Leads:** Inspect test leads for any damage before each use. Replace if insulation is cracked or wires are exposed.

## 7. TROUBLESHOOTING

If you encounter issues with your BSIDE U0 Multimeter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display/Device won't turn on	Low battery or device off.	Charge the battery. Press and hold the power button to turn on.
Inaccurate readings	Incorrect mode selected, poor contact, or damaged test leads.	Ensure correct mode. Check test lead connections. Replace damaged leads.
Current measurement error	Conductor not centered in fork, or multiple conductors in fork.	Ensure only one conductor is centered in the fork. Use DC current manual reset if needed.
NCV not detecting voltage	Voltage too low, or device not close enough to source.	Ensure the voltage is within detectable range. Bring the device closer to the live source.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	U0
Display Type	Analog and Digital (Color Screen)
Measuring Current Range	DC AC 100A (Fork Clamp)
Measuring Voltage Range	0-610V
Measuring Resistance Range	40MΩ
Measuring Capacitance Range	N/A (Function available, range not specified in input)
Measuring Inductance Range	N/A
Operating Temperature	0-40°C
Power Source	Battery Powered (Lithium-ion direct charging)
Dimensions	18.1 x 3 x 2.9 CM (approx. 0.39 x 0.39 x 0.39 inches)
Weight	0.28KG (approx. 1.1 pounds)
Certifications	CE, FCC, RoHS, UL

Feature	Specification
Key Features	True RMS, Automatic Range, Non-Contact Voltage Detection, Fire Line Discrimination, Intelligent Burn Prevention

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your proof of purchase for warranty claims.