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› AVHzY C3 USB Charge Tester - Digital Multimeter User Manual

AVHzY C3

AVHzY C3 USB Charge Tester - Digital Multimeter User Manual

Model: C3 | Brand: AVHzY

1. INTRODUCTION

The AVHzY C3 USB Charge Tester is a versatile digital multimeter designed for precise measurement of voltage, current, and power in various USB-powered devices. It supports a wide range of fast charging protocols, making it an essential tool for testing cables, power banks, chargers, and other USB accessories. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

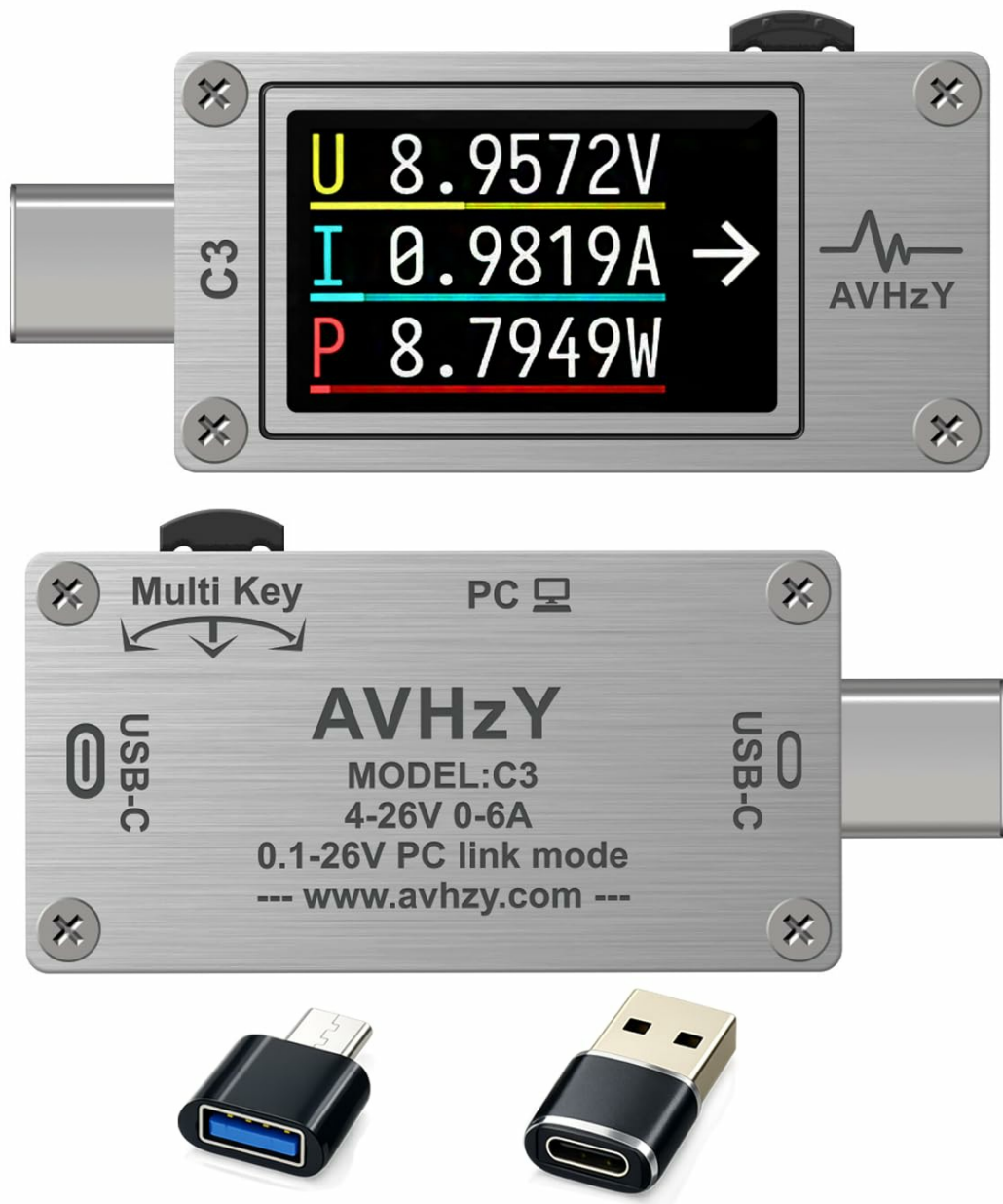


Figure 1: AVHzY C3 USB Charge Tester main view. This image shows the compact design of the device with its display and USB-C connectors.

2. SAFETY INFORMATION

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage or injury.
- Ensure proper connection of cables to avoid short circuits or damage to the tester and connected devices.
- Keep the device away from children.

3. PRODUCT OVERVIEW

The AVHzY C3 features a clear display and multiple ports for versatile testing. It is designed for ease of use and portability.

Key Features:

- Voltage and Current Measurement: 0-26V, 0-6A with 4.5-digit display.
- High Accuracy: Max 0.1% amplification error for voltage and current.
- Capacity/Energy Storage: Measures and stores charge capacity and energy.
- Fast Charge Protocol Trigger: Supports PD (with PPS), QC2.0, QC3.0, QC4.0, Huawei SCP, SSCP, FCP, Samsung AFC, VOOC, Super VOOC 65W.
- Cable Resistance Testing: Type-C to Type-C, Type-A to Type-C.
- Offline Data Logging: Up to 100 SPS with 12MB internal memory.
- PC Software: Powerful software for data logging (up to 1000 sps), VBUS waveform viewer (8Mps), PD listener, and fast charge trigger.
- Display: 240 x 135 1.14-inch IPS TFT.

PC software communication

Multiple devices can be connected at the same time



VBUS Ripple

PD Listener

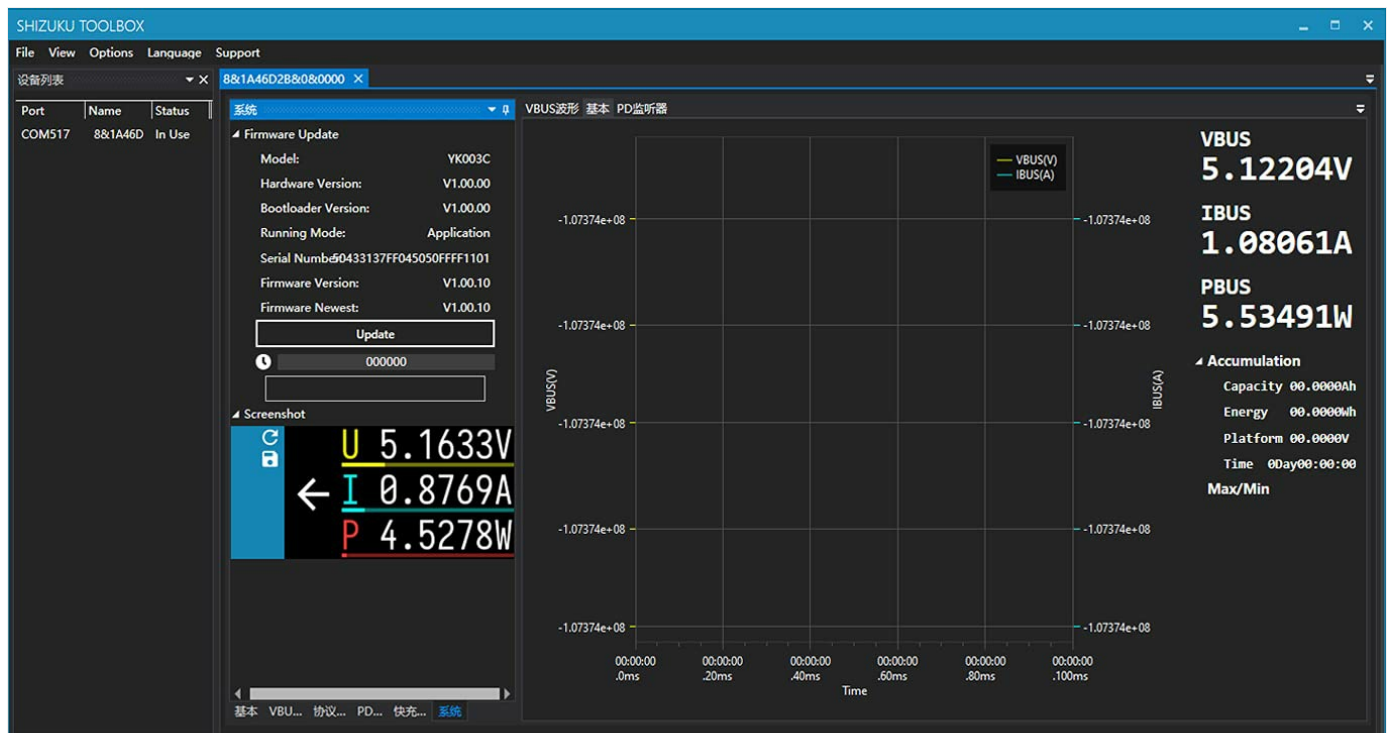
FastCharge Trigger

Module control

Firmware Update

Multi-language

Figure 2: Front view of the AVHzY C3 USB Charge Tester, showing the display and USB-C port.



Easily update the firmware
Take screenshot and save

Figure 3: Side view of the AVHzY C3 USB Charge Tester, highlighting its compact design.

4. SETUP

The AVHzY C3 is designed for simple plug-and-play operation. Follow these steps to begin using your device:

1. **Unpack the Device:** Carefully remove the AVHzY C3 from its packaging.
2. **Connect to Power Source:** Plug the input (male) USB-C connector of the AVHzY C3 into a USB power source (e.g., charger, power bank, computer USB port). The device display should light up.
3. **Connect Device to Test:** Plug the device you wish to test (e.g., smartphone, tablet, USB-C cable) into the output (female) USB-C port of the AVHzY C3.
4. **Initial Power On:** If the tester is attached to a charger only, you may need to press one of the left and right keys to power on the meter.

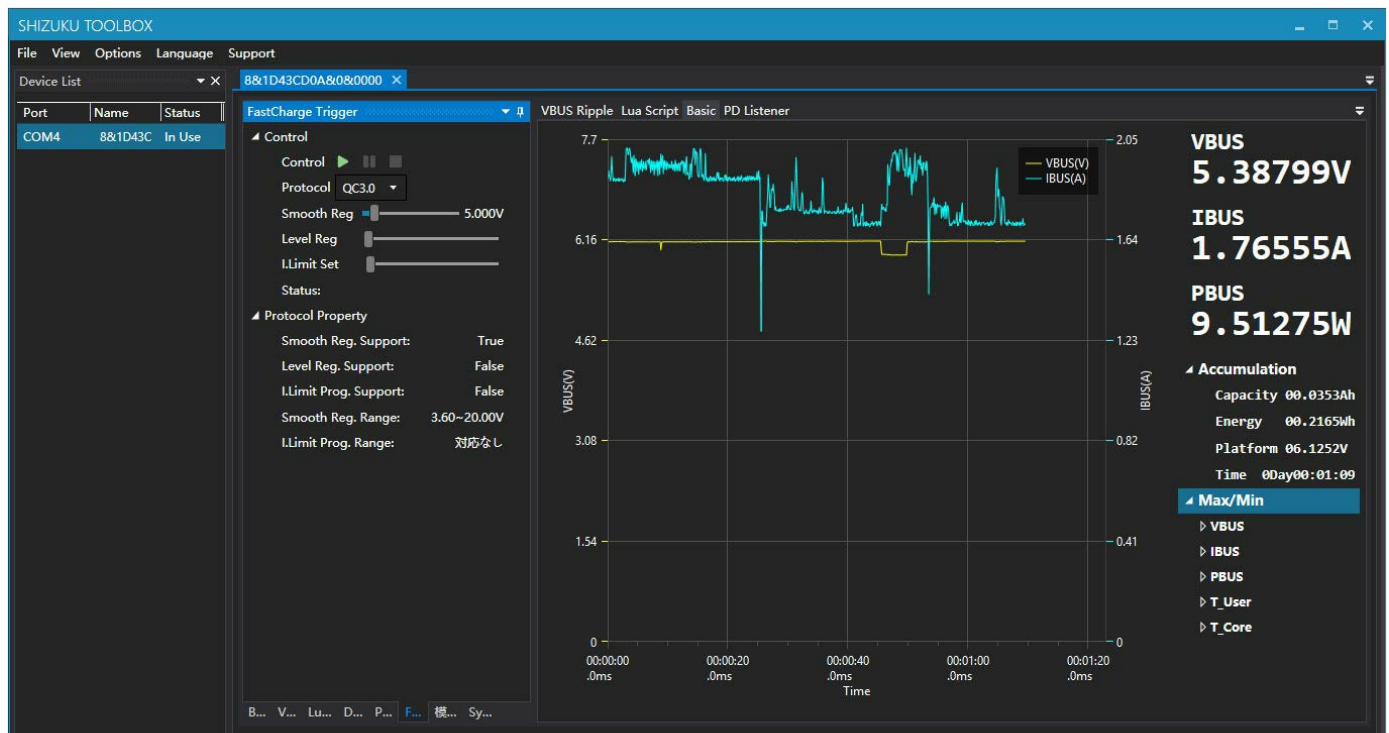


Figure 4: AVHzY C3 Quick Start Guide showing basic connection steps. The image illustrates connecting the tester between a power source and a device.

5. OPERATING INSTRUCTIONS

5.1 Basic Measurement

Once connected, the AVHzY C3 will automatically display real-time voltage (V), current (A), and power (W) readings on its screen. Use the physical buttons on the device to cycle through different display modes, which may include accumulated capacity (mAh), energy (Wh), D+/D- voltage, and other detailed information.



PC: Fast charge trigger, combined with other features,
easy diagnosis experience

Figure 5: Close-up of the AVHzY C3 display showing detailed voltage, current, and power readings.

5.2 Fast Charge Protocol Triggering

The AVHzY C3 can trigger various fast charging protocols to test charger compatibility and performance. Refer to the detailed User Interface Manual (link in Section 8) for specific instructions on how to activate and manage these triggers directly from the device.

5.3 PC Software Communication

For advanced analysis and data logging, connect the AVHzY C3 to a computer using a compatible USB cable. The dedicated PC software offers extended functionalities:

- **Data Logging:** Record voltage, current, D+, and D- data at up to 1000 samples per second (sps).
- **Firmware Update:** Easily update the device firmware to access new features and improvements.
- **VBUS Ripple Viewer:** Analyze VBUS ripple with a sample rate up to 3.2Msps.
- **PD Listener:** Diagnose Power Delivery devices and protocols.
- **Fast Charge Trigger:** Control and monitor fast charge triggers from the PC interface.



Figure 6: Diagram illustrating PC software communication with the AVHzY C3, highlighting various features.



Figure 7: Screenshot of the PC software interface showing the firmware update section and options to take screenshots.

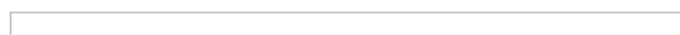


Figure 8: Screenshot of the PC software displaying data logging capabilities for VBUS, IBUS, and PBUS over time.



Figure 9: Screenshot of the PC software showing the Fast Charge Trigger function with protocol settings.



Figure 10: Screenshot of the PC software displaying VBUS ripple waveform with sample rate and depth settings.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Handle the device with care to prevent physical damage to the ports or screen.

7. TROUBLESHOOTING

If you encounter issues with your AVHzY C3, refer to the following common troubleshooting steps:

- **No Display:** Ensure the device is properly connected to a power source. If connected only to a charger, press one of the side buttons to activate the display.
- **Incorrect Readings:** Verify that all cables are securely connected. Try using different cables or power sources to rule out external factors. Ensure the device firmware is up to date.
- **PC Software Connection Issues:** Check the USB cable connection between the tester and the computer. Ensure the correct drivers are installed (if required) and the PC software is the latest version.
- **Device Not Charging:** Confirm that the power source and the device being charged are functional independently. The tester should not prevent charging if properly connected.

8. SPECIFICATIONS

Brand	AVHzY
Model	C3
Measurement Type	Multimeter
Voltage Range	0-26 V DC
Current Range	0-6 A
Voltage/Current Display	4.5 Digits
Amplification Error	Max 0.1% (Voltage & Current)
Display	1.14-inch IPS TFT (240 x 135)
Minimum Operating Voltage	4 Volts (DC)
Power Source	Battery Powered (Internal)
Dimensions (L x W x H)	5.2 x 2.3 x 1 centimeters
Color	Silver
UPC	779288697973

9. WARRANTY AND SUPPORT

For detailed information regarding warranty, technical support, and advanced features, please refer to the official AVHzY documentation:

- **Official Product Page:** <https://www.avhzy.com/html/product-detail/ct3>
- **Meter User Interface Manual (PDF):** <https://m.media-amazon.com/images/I/91DA88mt5DL.pdf>
- **PC Software Manual (PDF):** <https://m.media-amazon.com/images/I/91NX6+bf13L.pdf>

For further assistance, please contact AVHzY customer support through their official website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question