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Fafeicy ZT5566

Fafeicy Benchtop Digital Multimeter ZT5566 Instruction Manual

Model: ZT5566

1. Introduction

Thank you for choosing the Fafeicy ZT5566 Benchtop Digital Multimeter. This multifunctional electrical tester is designed for high accuracy and ease of use, featuring an auto-ranging display, various measurement capabilities, and integrated multimedia functions. This manual provides detailed instructions for safe and effective operation of your device.

2. Safety Information

Always observe basic safety precautions when using this product to reduce the risk of fire, electric shock, or personal injury. Read and understand all instructions before use.

- Do not attempt to measure voltage or current beyond the specified limits of the device.
- Ensure the test leads are properly connected to the correct input jacks for the desired measurement.
- Always disconnect power to the circuit before measuring resistance or capacitance.
- Avoid using the multimeter in wet conditions or in the presence of explosive gases or dust.
- Replace batteries promptly when the low battery indicator appears to ensure accurate readings.

3. Package Contents

Verify that all items are present in your package:

- 1 x Fafeicy ZT5566 Digital Multimeter (Battery Not Included)
- 1 x USB Charging Cable
- 1 Pair x Test Leads
- 1 x User Manual

4. Product Overview

The Fafeicy ZT5566 is a benchtop digital multimeter featuring a clear LCD display with adjustable backlight. It integrates various measurement functions with additional features like a clock, alarm, and Bluetooth audio.



Figure 4.1: Front view of the Fafeicy ZT5566 Digital Multimeter, showing the LCD display, function buttons, and input jacks.

The device's interface includes dedicated buttons for range selection, light control, hold function, and relative measurement. The rotary dial allows selection of various measurement modes. Input jacks are clearly labeled for voltage, current, and common connections.



Figure 4.2: Icons illustrating the full range of features including Voltage, Current, Resistance, Capacitance, Diode, Buzzer, Frequency, Music, Temperature, Time, and Alarm Clock.

5. Setup

Before first use, ensure batteries are installed and the device is charged.

5.1 Battery Installation

The multimeter requires 2 x Lithium Batteries (4000mAH, not included). Open the battery compartment on the back of the device, insert the batteries according to the polarity indicators, and close the compartment securely.

5.2 Initial Power On

Turn the rotary dial from the 'OFF' position to any measurement function to power on the device. The LCD display will illuminate.

6. Operating Instructions

This section details how to use the primary measurement and multimedia functions of the ZT5566 multimeter.

6.1 Measuring DC Voltage

To measure DC voltage:

1. Turn the rotary dial to the 'V' position with the solid line (DC Voltage).
2. Insert the red test lead into the 'VΩHz' jack and the black test lead into the 'COM' jack.
3. Connect the test leads in parallel across the component or circuit where you want to measure voltage.
4. Read the voltage value on the LCD display.

6.2 Measuring DC Current

To measure DC current:

1. Turn the rotary dial to the 'mA' or 'A' position (DC Current).
2. For milliampere measurements, insert the red test lead into the 'mA' jack. For ampere measurements, insert the red test lead into the 'A' jack. The black test lead remains in the 'COM' jack.
3. Break the circuit and connect the multimeter in series with the component or circuit. All current must flow through the multimeter.
4. Read the current value on the LCD display.

6.3 Measuring Resistance

To measure resistance:

1. Turn the rotary dial to the 'Ω' position.
2. Insert the red test lead into the 'VΩHz' jack and the black test lead into the 'COM' jack.
3. Ensure the circuit is powered off and the component is isolated.
4. Connect the test leads across the component to be measured.
5. Read the resistance value on the LCD display.

Video 6.1: Demonstration of basic multimeter functions including voltage, current, and resistance measurement. Note: The multimeter model shown in the video is for illustrative purposes of measurement principles and may differ from the ZT5566.

6.4 Other Functions

The ZT5566 includes additional features:

- **Music Playback:** The multimeter supports music playback, allowing users to listen to audio. Refer to the device's specific controls for media playback.

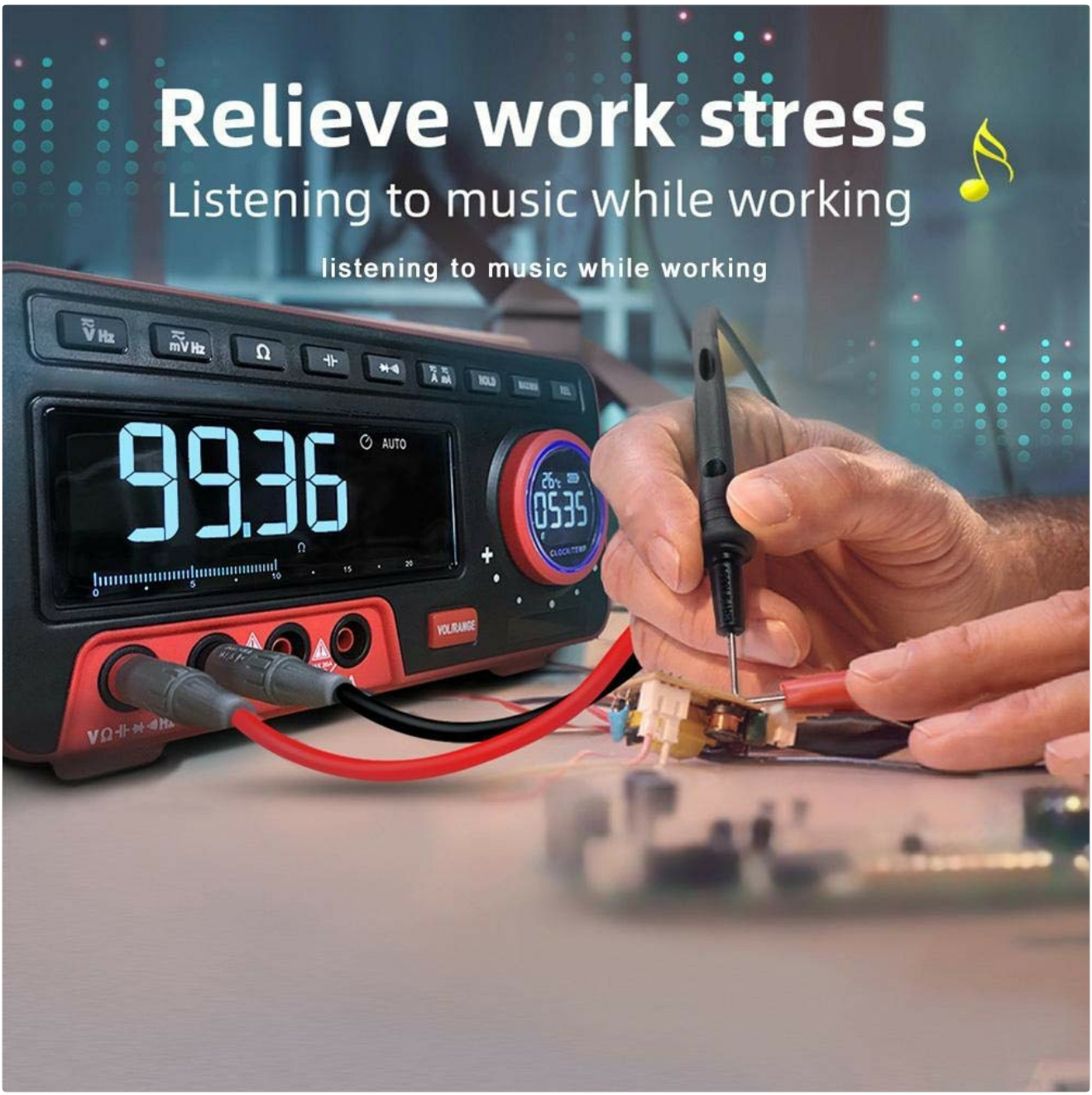


Figure 6.3: The multimeter's display showing a music note icon, indicating the music playback feature.

- **Bluetooth Audio:** Connect your device wirelessly via Bluetooth V5.0 for audio streaming. The effective distance is up to 10m (32.8ft).



Figure 6.4: The multimeter's display showing a Bluetooth icon, indicating active wireless connection.

- **Clock and Alarm Clock:** The device features a built-in clock and alarm clock functionality.
- **Ambient Temperature Display:** The multimeter can display the ambient temperature.

7. Maintenance

Proper maintenance ensures the longevity and accuracy of your multimeter.

- Keep the device clean and dry. Use a soft, damp cloth for cleaning; do not use abrasive cleaners or solvents.
- Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures.
- If the device will not be used for an extended period, remove the batteries to prevent leakage.
- Regularly inspect test leads for any damage or wear. Replace if necessary.

8. Troubleshooting

If you encounter issues with your ZT5566 multimeter, refer to the following common troubleshooting steps:

- **No Display/Power:** Check battery installation and charge level. Ensure the rotary dial is set to an 'ON' position.
- **Inaccurate Readings:** Verify test lead connections and ensure they are inserted into the correct jacks for the selected function. Check battery level. Ensure the circuit is properly prepared for measurement (e.g., power off for resistance).
- **No Audio/Bluetooth Connection:** Ensure Bluetooth is enabled on both the multimeter and your external device. Check the connection distance.
- **'OL' or 'OVERLOAD' on Display:** This indicates that the measured value exceeds the selected range. Switch to a higher range or verify the circuit conditions.

9. Specifications

Function	Measuring Range	Accuracy
DC Voltage (V)	1.9V / 19V / 199.99V / 1000.0V	±(0.05%+3)
DC Voltage (mV)	19.999mV / 199.99mV	±(0.05%+3)
AC Voltage (V)	1.9V / 19V / 199.99V / 750.0V	±(0.3%+3)
AC Voltage (mV)	19.999mV / 199.99mV	±(0.3%+3)
DC Current (A)	1.9999A / 19.999A	±(0.5%+3)
DC Current (mA)	19.999mA / 199.99mA	±(0.5%+3)
AC Current (A)	1.9999A / 19.999A	±(0.8%+3)
AC Current (mA)	19.999mA / 199.99mA	±(0.8%+3)
Resistance (Ω)	199.99Ω	±(0.5%+3)
Resistance (KΩ)	1.9999kΩ / 19.999kΩ / 199.99kΩ	±(0.2%+3)
Resistance (MΩ)	1.9999MΩ / 19.999MΩ	±(1.0%+3)
Resistance (MΩ)	199.99MΩ	±(5.0%+5)
Capacitance (F)	9.999nF	±(5.0%+20)
Capacitance (F)	99.99nF / 0.999μF / 9.999μF / 99.99μF / 0.999mF	±(2.0%+5)
Capacitance (F)	9.999mF	±(5.0%+5)
Frequency (Hz)	99.99Hz / 0.999kHz / 9.999kHz / 99.99kHz / 0.999MHz / 6.000MHz	±(0.1%+2)

Bluetooth Version: V5.0
Distance: ≤10m / 32.8ft
Nominal Power: 2x4 W RMS
Frequency Range: 100Hz-18KHz
Distortion: ≤1%
Signal to Noise Ratio: ≥76dB
Work Environment Temperature: 0-40℃
Humidity: <75%
Storage Environment Temperature: -10-60℃
Humidity: <80%
Material: ABS
Item Weight: 2.6 pounds

10. Warranty and Support

Warranty and support information for the Fafeicy ZT5566 Benchtop Digital Multimeter is not provided in the available product data. Please refer to the product packaging or contact the manufacturer directly for details regarding warranty coverage and customer support.

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