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Voktta VK050516

Voktta Digital Battery Capacity Checker VK050516 User Manual

Model: VK050516

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1. Product Overview

The Voktta Digital Battery Capacity Checker VK050516 is a compact and durable device designed for monitoring the capacity and voltage of various battery types. It is compatible with Lipo, Life, Li-ion, NiMH, and NiCd batteries, providing essential information for battery management.

This tester offers multiple display methods, including individual cell voltages, total voltage, lowest cell voltage, and remaining battery capacity percentage. It is an ideal tool for hobbyists and professionals requiring precise battery status checks.



Figure 1.1: Front view of the Voktta Digital Battery Capacity Checker, highlighting the display and control buttons. Labels indicate battery type, voltage, mode, capacity bar, and capacity percentage.

2. Setup Instructions

Before using the Voktta Digital Battery Capacity Checker, ensure your battery is compatible with the device. This tester supports Lipo, Life, Li-ion, NiMH, and NiCd battery types.

1. **Identify Battery Type:** Determine if your battery is a Lithium-based (Lipo, Life, Li-ion) or Nickel-based (NiMH, NiCd) battery.
2. **Connect Lithium Batteries:** For Lithium batteries (2-7 cells), connect the balance plug of your battery to the corresponding *Lithium Type* port on the right side of the checker. Ensure the polarity is correct.
3. **Connect NiCd/NiMH Batteries:** For NiCd/NiMH batteries (4-7 cells), connect the battery's main discharge plug to the *NiCd/NiMH* port on the top right side of the checker.
4. **Power On:** The device will power on automatically once a compatible battery is connected, drawing power directly from the battery.



Figure 2.1: Side view of the battery checker, illustrating the dedicated ports for Lithium (2-7 cells) and NiCd/NiMH (4-7 cells) battery connections.

3. Operating Instructions

Once the battery is connected, the checker will display information on its LCD screen. Use the three buttons on the front panel to navigate through different display modes and battery types.

3.1. Button Functions

- **TYPE Button:** Press this button to cycle through different battery types (Lipo, Life, Li-ion, NiMH, NiCd) if applicable. The selected type will be highlighted on the LCD.
- **CELL Button:** Use this button to view individual cell voltages for multi-cell Lithium batteries. Repeated presses will show each cell's voltage sequentially, as well as the lowest and highest cell voltages.
- **MODE Button:** This button changes the display mode, showing total voltage, remaining capacity percentage, and potentially other diagnostic information.

3.2. Display Information

The LCD screen provides the following key information:

- **Battery Type:** Indicates the currently selected or detected battery chemistry.
- **Voltage:** Displays the total voltage of the battery pack or individual cell voltage.
- **Capacity Percentage:** Shows the estimated remaining capacity of the battery as a percentage.
- **Capacity Bar:** A visual representation of the remaining battery capacity.
- **Max-Min:** For multi-cell batteries, this indicates the maximum and minimum cell voltages, useful for checking cell balance.



Figure 3.1: Detailed view of the LCD display, showing the various indicators such as battery type, voltage, mode, capacity bar, and capacity percentage.

4. Maintenance

Proper maintenance ensures the longevity and accuracy of your Voktta Digital Battery Capacity Checker.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that could damage the casing or screen.
- **Storage:** Store the checker in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care to prevent physical damage. Avoid dropping it or exposing it to excessive force.
- **Moisture:** Keep the device away from water and high humidity to prevent internal damage.

5. Troubleshooting

If you encounter issues with your battery capacity checker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Battery not connected correctly or battery is completely discharged.	Ensure the battery is securely connected to the correct port with proper polarity. Check if the battery has sufficient charge.
Incorrect readings displayed.	Incorrect battery type selected or poor connection.	Verify the battery type using the "TYPE" button. Re-connect the battery to ensure a stable connection.
No individual cell voltage for Lithium batteries.	Balance plug not connected or damaged.	Ensure the balance plug is fully inserted into the Lithium Type port. Inspect the balance plug and cable for damage.
Device not responding to button presses.	Temporary software glitch or button malfunction.	Disconnect and re-connect the battery to reset the device. If the issue persists, contact support.

6. Specifications

Key technical specifications for the Voktta Digital Battery Capacity Checker VK050516:

- **Model Number:** VK050516
- **Compatible Battery Types:** Lipo, Life, Li-ion (2-7 cells); NiMH, NiCd (4-7 cells)
- **Dimensions:** 8.5 x 5 x 1.6 cm (approximately 3.35 x 1.97 x 0.63 inches)
- **Weight:** 50 grams (approximately 1.76 ounces)
- **Minimum Operating Voltage:** 3 Volts
- **Measurement Type:** Voltmeter
- **Color:** Black
- **Power Source:** Battery Powered (draws power from the connected battery)



Figure 6.1: The battery checker displaying its compact dimensions: 8.5cm length, 5cm width, and 1.5cm thickness.

7. Warranty and Support

7.1. Warranty Information

Voktta products are manufactured to high-quality standards. For specific warranty details, please refer to the documentation included with your purchase or contact Voktta customer support. Typically, a standard manufacturer's warranty covers defects in materials and workmanship under normal use.

7.2. Customer Support

If you have any questions, require technical assistance, or need to report an issue, please contact Voktta customer support. You can usually find contact information on the product packaging, the official Voktta website, or through your retailer.
For online purchases, you may also refer to the seller's contact information provided on the platform where the product was purchased.

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