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› Synergy Digital YT105050 Equipment Battery User Manual

## Synergy Digital YT105050

# Synergy Digital YT105050 Equipment Battery User Manual

Model: YT105050 | Brand: Synergy Digital

## 1. PRODUCT OVERVIEW

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The Synergy Digital YT105050 is a high-capacity Lithium-Polymer (Li-Pol) rechargeable battery designed as a replacement for ZKTeco YT105050 equipment. It provides a stable 3.7V output with a 3000mAh capacity, ensuring reliable and long-lasting power for compatible devices. This battery is manufactured with high-quality cells to meet or exceed the performance of the original equipment battery.



Image 1.1: Top view of the Synergy Digital YT105050 battery, displaying its part number, voltage, capacity, and chemistry.



Image 1.2: Bottom view of the Synergy Digital YT105050 battery, highlighting important safety warnings and manufacturer information.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before using this battery. Failure to follow these instructions may result in fire, injury, or damage to property.

- **DO NOT** attempt to disassemble, open, or service the battery pack.
- **DO NOT** crush, puncture, short external contacts, or dispose of in fire or water.
- **DO NOT** store above 60°C (140°F).
- Replace only with the battery pack designated for this product.
- Keep the battery away from children.
- If the battery leaks, avoid contact with the fluid. If contact occurs, flush with water and seek medical attention.
- Dispose of used batteries according to local regulations. Do not dispose of with household waste.

### 3. SETUP AND INSTALLATION

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This battery is designed for specific equipment. Ensure compatibility before installation.

1. **Power Off Equipment:** Before installing or removing the battery, ensure the equipment is completely powered off and disconnected from any power source.
2. **Locate Battery Compartment:** Refer to your equipment's original manual to locate and open the battery compartment.
3. **Remove Old Battery (if applicable):** Carefully disconnect and remove the old battery. Note its orientation.
4. **Insert New Battery:** Align the Synergy Digital YT105050 battery with the connectors in the compartment. Ensure correct polarity (positive to positive, negative to negative). The battery typically has a specific shape to prevent incorrect insertion.
5. **Secure Battery:** Gently press the battery into place until it is securely seated. Close the battery compartment cover.
6. **Initial Charge:** It is recommended to fully charge the battery before its first use.





Image 3.1: Close-up view of the battery's red (positive) and black (negative) wires, indicating connection points for equipment.

## 4. OPERATING (CHARGING)

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To ensure optimal performance and longevity, follow these charging guidelines:

- **Use Compatible Charger:** Always use the charger specifically designed for your equipment or a compatible Li-Pol charger that matches the battery's voltage (3.7V) and capacity. Using an incompatible charger can damage the battery or equipment.
- **Charging Process:** Connect your equipment (with the battery installed) to its charger. The charging indicator on your equipment will typically show the charging status.
- **Avoid Overcharging:** Modern Li-Pol batteries and chargers are designed to prevent overcharging. However, it is good practice to disconnect the charger once the battery is fully charged.
- **Temperature:** Charge the battery at room temperature (10°C to 30°C / 50°F to 86°F) for best results. Avoid charging in extreme heat or cold.

## 5. MAINTENANCE AND STORAGE

Proper maintenance and storage can extend the life of your battery.

- **Regular Use:** For optimal battery health, use and recharge the battery regularly.
- **Avoid Deep Discharge:** Do not allow the battery to completely discharge for extended periods, as this can reduce its lifespan.
- **Storage:** If storing the battery for an extended period, charge it to approximately 50-60% capacity. Store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Keep battery contacts clean and free from dirt or corrosion. Use a dry, soft cloth to wipe them if necessary.

## 6. TROUBLESHOOTING

If you encounter issues with your battery, consider the following common solutions:

| Problem                                | Possible Cause                                                                                                                                                                                     | Solution                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery not charging                   | <ul style="list-style-type: none"><li>◦ Charger not connected properly.</li><li>◦ Faulty charger or cable.</li><li>◦ Battery contacts are dirty.</li><li>◦ Battery is deeply discharged.</li></ul> | <ul style="list-style-type: none"><li>◦ Ensure charger is securely connected to both equipment and power source.</li><li>◦ Try a different compatible charger or cable.</li><li>◦ Clean battery contacts with a dry, soft cloth.</li><li>◦ Allow the battery to charge for a longer period, even if no initial indicator.</li></ul> |
| Short operating time after full charge | <ul style="list-style-type: none"><li>◦ Battery not fully charged.</li><li>◦ Battery degradation over time.</li><li>◦ High power consumption by equipment.</li></ul>                               | <ul style="list-style-type: none"><li>◦ Ensure battery is charged until the equipment indicates a full charge.</li><li>◦ Consider replacing the battery if it's old and performance has significantly degraded.</li><li>◦ Reduce power-intensive tasks on the equipment if possible.</li></ul>                                      |
| Battery not fitting in compartment     | <ul style="list-style-type: none"><li>◦ Incorrect battery model.</li><li>◦ Incorrect orientation.</li></ul>                                                                                        | <ul style="list-style-type: none"><li>◦ Verify the battery model (YT105050) matches your equipment's requirements.</li><li>◦ Ensure the battery is oriented correctly according to the compartment's design. Do not force it.</li></ul>                                                                                             |

If problems persist, contact customer support for further assistance.

## 7. SPECIFICATIONS

| Feature    | Detail          |
|------------|-----------------|
| Model Name | YT105050        |
| Brand      | Synergy Digital |

| Feature                     | Detail                                          |
|-----------------------------|-------------------------------------------------|
| Battery Chemistry           | Lithium Polymer (Li-Pol)                        |
| Voltage                     | 3.7 Volts                                       |
| Capacity                    | 3000 mAh (Milliamp Hours)                       |
| Energy                      | 11.10 Wh (Watt-hours)                           |
| Reusability                 | Rechargeable                                    |
| Compatible Equipment        | ZKTeco YT105050 Equipment and many other models |
| Item Dimensions (L x W x H) | 1.95 x 1.95 x 0.38 inches                       |
| Item Weight                 | 1.69 Ounces                                     |
| Manufacturer                | Synergy Digital                                 |

## 8. WARRANTY AND SUPPORT

For warranty information regarding your Synergy Digital YT105050 battery, please refer to the documentation provided at the time of purchase or contact the retailer/seller directly. Specific warranty terms and conditions may vary.

If you require technical support or have questions not covered in this manual, please contact Synergy Digital customer service or the authorized reseller from whom you purchased the product. Have your product model number (YT105050) and purchase details ready when contacting support.

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### 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

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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**