

## AZ HT206 Duo

# AZ HTRC HT206 Duo 400W Dual Port RC Lipo Battery Balance Charger Discharger User Manual

Model: HT206 Duo

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your AZ HTRC HT206 Duo 400W Dual Port RC Lipo Battery Balance Charger Discharger. This device features AC/DC dual input, a 4.3-inch color LCD touch screen, and two independent charging ports, each capable of up to 200W charging power and 20A maximum current. Please read this manual thoroughly before use.

## 2. SAFETY INSTRUCTIONS

- Always operate the charger in a well-ventilated area, away from flammable materials.
- Never leave the charger unattended during operation.
- Ensure correct battery type and cell count settings before charging. Incorrect settings can lead to battery damage or fire.
- Do not attempt to charge damaged or swollen batteries.
- Keep the charger away from moisture, dust, and direct sunlight.
- Use only the specified power input (AC 110-240V or DC 10-30V).
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x HTRC HT206 Duo Charger
- Power cables (AC and DC)
- Balance boards and cables
- User Manual (this document)

## 4. PRODUCT OVERVIEW

The HTRC HT206 Duo is designed for efficient and safe battery management. It features a robust aluminum alloy casing with integrated cooling fans and rubber pads for stability and improved airflow.



Image 1: Front view of the HTRC HT206 Duo charger, showcasing the 4.3-inch touch screen and dual charging ports.

Key features include:

- **4.3-inch Color LCD Touch Screen:** For intuitive navigation and operation.
- **Dual Independent Ports:** Charge two different battery types simultaneously.
- **Integrated Cooling System:** Built-in fan and aluminum alloy design ensure efficient heat dissipation.
- **5V 2.1A USB DC Power Supply Output:** Convenient for charging mobile devices.
- **PFC and Soft Switching:** Improves energy efficiency and reduces interference.



Image 2: Side view of the charger highlighting AC input (110-240V), DC input (10-30V), fan port, output ports, 3-pin balance port (6S), and Mini USB port.



With rubber pads , Prevent sliding, and The air can circulate.

Image 3: Angled view showing the charger's dimensions (195mm length, 70mm height) and the air inlet for cooling, along with rubber pads to prevent sliding.

## 5. SETUP

### 1. Power Connection:

- For AC power, connect the AC power cable to the charger's AC input port and then to a wall outlet (110-240V).
- For DC power, connect the DC input cable to the charger's DC input port and to a suitable DC power source (10-30V).

### 2. Battery Connection:

- Connect your battery's main power lead to the charger's output port (CH1 or CH2).
- Connect the battery's balance lead to the corresponding balance socket on the charger. Ensure correct polarity.

3. **Initial Power On:** Once connected, the charger will power on, and the touch screen will display the main interface.

## 6. OPERATING INSTRUCTIONS

The HTRC HT206 Duo features a 4.3-inch touch screen for easy navigation and setting adjustments.

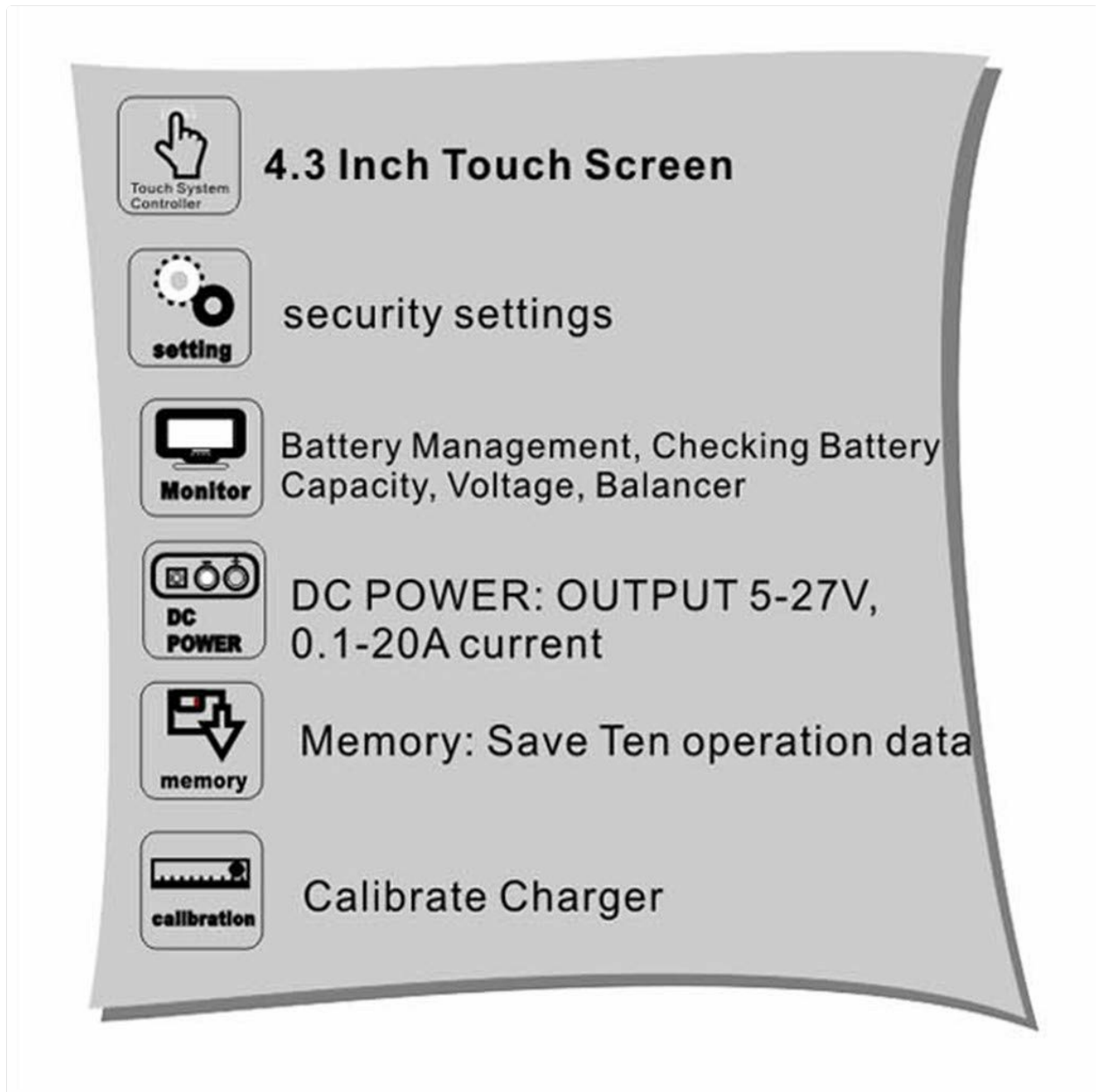


Image 4: Diagram illustrating the main functions accessible via the 4.3-inch touch screen, including Settings, Monitor, DC Power, Memory, and Calibration.

### 6.1 Main Functions

- **Setting:** Access general settings such as buzzer volume, low input voltage warning, balance speed, and maximum charging power. You can also set specific cut-off values for each channel to ensure safe charging.
- **Memory:** Save up to 8 operation data profiles for frequently used battery types and settings.
- **Monitor:** Check real-time battery capacity, voltage, internal resistance, and balancer status.
- **DC Power:** Utilize the charger as a digital DC power supply with adjustable output from 5-27V and 0.1-20A.
- **Calibration:** Perform charger calibration for optimal accuracy.

### 6.2 Charging Process

1. Select the desired channel (CH1 or CH2) on the touch screen.
2. Choose the battery type (LiPo, LiFe, Lilon, LiHV, NiCd, NiMh, PB, Smart Battery). The charger supports automatic identification of Li-Po battery cells.
3. Set the charging mode (e.g., Balance Charge, Fast Charge, Storage, Discharge).
4. Adjust the charging current and cell count according to your battery's specifications.
5. Confirm settings and start the charging process. The screen will display real-time charging data.
6. The charger will automatically stop when the process is complete. Disconnect the battery safely.

## 7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the charger's exterior. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use.
- **Firmware Updates:** The charger supports firmware updates. Refer to the manufacturer's website for the latest updates and instructions.

## 8. TROUBLESHOOTING

- **Charger not powering on:** Check power connections (AC or DC) and ensure the power source is active.
- **Charging error message:** Verify battery connections, battery type, cell count, and charging current settings. Ensure the battery is not damaged.
- **Overheating:** Ensure the charger's ventilation ports are clear and the unit is in a well-ventilated area. Reduce charging current if necessary.
- **Touch screen unresponsive:** Try restarting the charger. If the issue persists, contact customer support.

## 9. SPECIFICATIONS

Feature	Specification
Input Voltage	AC 110-240V / DC 10-30V
Charger Circuit Power	200W x 2
Discharger Circuit Power	25W x 2
Discharger Voltage	3.1V-3.85V
Charger Current Range	0.1-20A x 2
Discharge Current Range	0.1-5A x 2
Digital DC Power Output	5-27V, 0.1-20A
Li-Ion/LiPo/LiFe/LiHV Cell Count	1-6 cells x 2
NiCd/NiMh Cell Count	1-15 cells x 2
Current Drain for Balancing Port	500mA/cell

Feature	Specification
PB Battery Voltage	2-20V x 2
Smart Battery Support	I/II/III x 2
Dimensions	19.5 x 14.3 x 7 cm
Net Weight	1.072 kg
USB Output	5V, 2.1A

## 10. WARRANTY AND SUPPORT

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