

# INSTRUCTION MANUAL

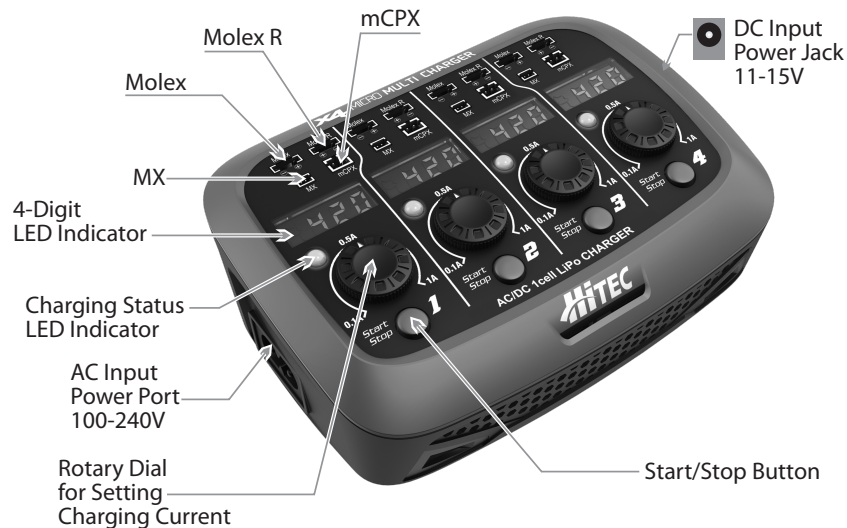


## X4 MICRO MULTI CHARGER

### INTRODUCTION

Thank you for choosing the Hitec X4 Micro Charger for your battery charging needs. This unit is simple to use but its operation does require some basic knowledge on the part of the user. Please read this operating manual completely and attentively before using this product, as it covers a wide range of information on operating and charging safety.

The Hitec X4 Micro Charger is designed for charging single-cell LiPo batteries commonly used in micro RC models. It features four identical but totally independent power outputs which can deliver up to 4W each. Each output also includes the four most commonly used connectors for micro batteries. This flexibility lets you charge four single-cell batteries with different capacities and connectors at the same time. Convenient dial controls on each output allow you to adjust the charging current from 0.1-1A. Individual LED displays let you monitor the charging capacity and cell voltage of each cell during the charge. Get Smart with Hitec!



### WARNING

THE CHARGING OF LITHIUM POLYMER BATTERIES CAN BE DANGEROUS IF CERTAIN PRECAUTIONS ARE NOT TAKEN. DO NOT TRY TO OPERATE THIS CHARGER UNTIL YOU HAVE READ THIS MANUAL IN ITS ENTIRETY. NEVER LEAVE THE CHARGER UNATTENDED DURING OPERATION. FAILURE TO FOLLOW THIS ADVICE MAY RESULT IN PROPERTY DAMAGE OR INJURY.

### FEATURES

- AC/DC Dual Power Input
- Four Independent Charge Ports • Each Port Features Four Popular Battery Connectors
- Four-digit, Independent LEDs Displaying Current and Capacity
- Audible Alarm Indicating Process Termination
- Adjustable Charge Current: 0.1~1 amp
- Comprehensive Safety Features Including Short Circuit, Over Current, Battery Reverse Polarity and DC Input Voltage Protection

### SPECIFICATIONS

- AC Input: 100-240V
- DC Input: 11-15V
- Charge Circuit Power: 4 x 4W  $\pm 10\%$
- Charge Current Range: 0.1 ~ 1.0A  $\pm 10\%$
- Battery Type: 4 x 1 cell LiPo
- Battery Connector Types: Molex / Reversed Molex / MX / mCPX
- Operating Temperature: 32 ~ 122°F (0~ 50°C)
- Dimensions: 5.2 x 3.9 x 2.0 in. (132x100x50mm)
- Net Weight: 9.9 oz. (280g)

### IMPORTANT SAFETY INFORMATION

**WARNING:** FAILURE TO FOLLOW THESE IMPORTANT SAFETY NOTES OR THE INSTRUCTION MANUAL CAN RESULT IN SEVERE INJURY, PROPERTY DAMAGE OR LOSS OF LIFE.

- ! Never leave the charger unattended when it is connected to its power supply.
- ! Please read this entire instruction manual completely and attentively before using this product, as it covers a wide range of information on operation and safety.
- ! If any malfunction is found, TERMINATE THE PROCESS AT ONCE and refer to the instruction manual.
- ! Keep the charger away from dust, moisture, water, excessive heat, direct sunlight and vibration.
- ! The maximum allowable input voltage is 240 VAC when using the supplied AC power cord or 15VDC when using an external DC power source.
- ! The charger and the battery should be put on a heat-resistant, non-flammable and non-conductive surface. Never place them on a car seat, carpet or other flammable surface.
- ! Keep all flammable volatile materials away from the operating area.
- ! Make sure you know the specifications of the battery you are charging to ensure it meets the requirements of this charger.
- ! If the program is set up incorrectly, the battery and charger can be damaged.
- ! Fire or explosion can occur due to overcharging.

### POWERING YOUR CHARGER

There are two ways to power your X4 Micro Charger. You can use either a household current with the supplied AC cord or connect to a DC power source such as a car battery with the supplied DC power connector.



When using  
12V battery  
power



## POWERING YOUR CHARGER (cont.)

Using an AC power source.

- Insert the AC power cord into the charger.
- Insert the AC power cord into a wall socket (100-240V).



Using an AC power source



When the charger is powered on, 4 status LEDs will blink once with one beep and all 4-digit LED indicators will display 8888. After that, they will go blank and reappear displaying the charging current, indicating the charger is ready to charge.

**CAUTION:** Each charging port can only charge one kind of battery at the same time.

## OPERATION

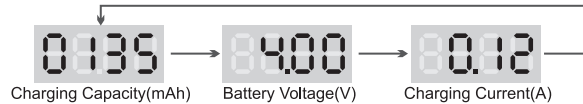
**CAUTION:** Before you Start Charging your Batteries Consider the Following:

- ! Are you using the right connector and polarity?
- ! Do you know the mAh and charge rate of your battery? If not, refer to the manufacturer's instructions.

- Insert the battery lead into the charge port that matches your battery.
- Select the charging current by rotating the dial. The charge current is adjustable from 0.1-1amps.

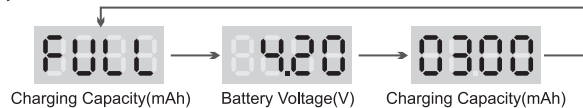
**NOTE:** Most Micro Batteries should be charged at 1C

- Press and hold the START/STOP button for 3 seconds to start the charging process. The status LED will turn red and you will hear a single long beep.
- During the charging process, the LED display will indicate the charging capacity, battery voltage and charging current in a continuous loop. The charging status LED indicator will stay red during the charging process.



- To stop the charging process, press and hold the START/STOP button for 3 seconds.
- When the charging process has completed, the charging status LED will turn green and blink 5 times, you will hear an audible sound, and the 4-digit LED will display "FULL".

**NOTE:** By pressing the START/STOP button once the 4-digit LED will display "FULL" for the battery voltage and capacity.



## LED DISPLAY INFORMATION

0135

Charging Capacity(mAh)

4.19

Battery Voltage

0.12

Charging Current Amperage  
(0.10-1.00A)

FULL

Status: Charging Completed

## ERROR MESSAGES

When there is an error, the LED will blink red twice per second and an audible alert will sound. After 5 seconds, the red LED will stay illuminated and the 4-digit LED will display the error code.

Error Code	Cause of Error
-11-	Defective Cell - Voltage of cell is too high or too low for safe charging.
-22-	The battery polarity is connected incorrectly.
-33-	The battery connection is wrong.
-44-	Short circuit or current in the battery is too high.
-55-	The DC input voltage is too high or too low.

## ONE YEAR LIMITED WARRANTY

For a period of one year from the date of purchase HITEC RCD USA, INC. shall REPAIR OR REPLACE, at their option, defective equipment covered by this warranty. This warranty does not cover cosmetic damages and damages due to acts of God, accident, misuse, abuse, negligence, improper installation, or damages caused by alterations by unauthorized persons. This warranty only applies to the original purchaser of this product, who purchased and used the product in the United States of America, Canada and Mexico.

THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY. HITEC RCD USA, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY RELATING TO THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW.

## STATE OF CALIFORNIA PROPOSITION 65 WARNING:

This product contains chemicals known to the State of California to cause cancer. Use caution when handling this product and avoid exposure to any electronic components or internal assemblies.

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