



Battery Charger 1.0 Manual



Battery Charger



Figure 1 | Top and side view of the Battery Charger.

Introduction

The SpikeGadgets Battery Charger is designed to simultaneously charge five 3.7V Lithium-Ion Polymer (LiPo) batteries. Each LiPo battery is plugged to the charger via a SpikeGadgets Battery Adapter (with its micro HDMI-D connector), which are used to allow battery-powering SpikeGadgets data-logging headstages. Battery charging is initiated by plugging the Battery Adaptor connected to the battery directly into the charger. This establishes a more robust connection for plugging and unplugging and removes strain on the delicate battery connector and wires.

Specifications

Charge Port Count	5
Batteries Supported	3.7V LiPo
Capacity (<i>note: may only program to one capacity at a time for all ports</i>)	20-2000mAh
Dimensions	4.4 x 3.3 x .9 inches
Weight	5 oz.
Approximate time to charge 400 mAh battery	4 hours

Configuration

Charging

1. Switch the Battery Adapter switch to “**OFF**” and plug it into a port.
2. Turn the knob on the left of the Battery Charger to set the charge rate (the LCD screen will show the setting). Turning the knob to the left will decrease and to the right will increase the charge rate setting. *Be sure to set the charge rate to the correct capacity of the battery or batteries you are charging.*
3. When the appropriate charge rate is set, switch the Battery Adapter switch to “**ON**”. The port’s LED should go **RED** if the battery needs charging and **BLUE** if it is charged.



Important Notes for Charging:

- Individual charge ports cannot be set to different charge rates; the user-set charge rate will be applied to **ALL 5** ports!
- Only charge LiPo batteries supplied or approved by SpikeGadgets and that are equipped with their built-in protection circuit against over voltage, over current, and minimum voltage.
- Do **NOT** to set a charge rate **HIGHER** than a battery’s specified rating (e.g. a 110mAh LiPo should be charged with a rate of 110mAh or less).
- Avoid mix-and-matching batteries with different capacities to avoid charging a battery with a too high charge rate.
- The Battery Charger is powered with a **5V** (2.5A) power supply shipped along with the device. Do **not** power the Battery Charger with more than 5V as this can cause permanent damage to the device.

Items Included with Shipment

Item	Description
Power adapter	5V power adapter

About SpikeGadgets

SpikeGadgets is trying something new. Our hybrid approach is to design and sell powerful hardware that interfaces with an open-source software platform supported by a large community of scientists and developers. Our goal is to support the efforts of the open-source community in a commercially-sustainable way.

Technical Support

If you would like technical support, please email us at support@spikegadgets.com.