LabQuest Battery Boost

(Order Code LQ-BOOST)

The Battery Boost is a rechargeable external battery for your LabQuest interface. With the added power of an external battery, data can be collected for extended periods in the field where AC power is not available.

Inventory of Items Included with the LabQuest Battery Boost

Check to be sure that each of these items is included with your LabQuest Battery Boost:

- 1 Universal USB Battery Pack
- 1 USB In cable (Standard USB to Mini USB)
- 1 USB Out cable (Round Adapter Plug to Standard USB)
- 2 universal adapters
- 3 phone adapters
- 1 LabQuest AC Power Supply adapter
- 1 car charger (USB Car Power Adapter)

About the Universal Battery Pack

The Universal USB Battery Pack has a Power-On Button (1), a standard USB port that supplies power to an external device (2), a charge indicator light (3), and a mini USB port that is used to charge the Universal Battery Pack (4). The Battery Pack will turn off automatically when not in use.

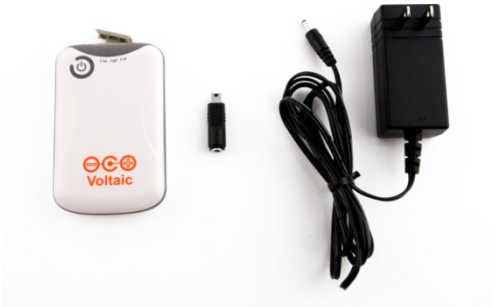
Testing the Universal Battery Pack

Make sure the Universal USB Battery is fully charged before use. To test the battery, press down on the Power-On Button. Verify that the charge indicator light indicates that the battery is fully charged. Charge the battery as necessary using the instructions below.

Charging the Universal Battery Pack

There are three ways to charge the Universal Battery Pack:

- **Charging the Universal Battery Pack with a USB Port**: Locate the USB In cable (standard USB to mini USB) and plug it into the mini USB port of the Battery Pack. Plug the other end of the cable into any standard USB port. The Battery Pack LEDs should light sequentially. This indicates that the battery is charging. The battery will be fully charged in less than 6 hrs.
- **Charging the Universal Battery Pack with the Car Charger**: Locate the USB In cable (standard USB to mini USB) and plug it into the mini USB port of the Battery Pack. Plug the other end of the cable into the USB port on the car charger. Plug the car charger into the appropriate auxiliary power port in your car. The Battery Pack LEDs should light sequentially. The battery should be fully charged in less than 6 hrs.
- **Charging the Universal Battery Pack with a LabQuest AC Power Supply**: Locate a LabQuest AC Power Supply. Connect the adapter to the plug of the LabQuest AC Power Supply. Plug the adapter into the mini USB port on the Universal Battery Pack. Plug the LabQuest AC Power Supply into an appropriate AC power source. The Battery Pack LEDs should light sequentially. The battery should be fully charged in less than 6 hrs.



Powering a LabQuest with the Universal Battery Pack

Locate the set of universal power adapters that came with the LabQuest Battery Boost. Locate the 3.5 x 1.3 mm universal adapter plug. (This is the only adapter in the package that will plug into the LabQuest power port.) Turn the LabQuest on. Connect the adapter to the LabQuest power port. Locate the USB Out cable (round adapter plug to standard USB). Connect this cable to the 3.5 x 1.3 mm universal adapter plug that is attached to the LabQuest power port. Plug the other end of the cable into the standard USB port of the Universal Battery Pack. Hold the Battery Pack Power-On button for two seconds. The Battery Pack LEDs should light and then will turn off. Observe the battery icon of your LabQuest. It should indicate that you are connected to external power.

How Long will the Universal Battery Pack Power my LabQuest

When fully charged, the Universal Battery Pack should power a LabQuest for 4–6 hours. Actual battery life will depend on the number and type of sensors being used in an experiment.

When Will I Need to Replace the Universal Battery Pack

The Universal Battery Pack is rated for 300–500 full charging cycles. Discharge and charge the battery fully every five months to preserve battery life.

Important Additional Information

- Store between –20º to 35ºC (–4º to 95ºF).
- Charge between 0º to 45ºC (32º to 113ºF).
- Do not expose the battery to high heat or direct flame.
- Dispose of properly. Do not throw in trash or incinerate.
- Do not get battery wet, store in high humidity, or otherwise short circuit.
- Do not disassemble or tamper with battery.

Specifications

Battery Type: Li-Polymer
Capacity: 3000mAh, 11 watt hours
Output: 5.5V, 600mA
Input: 4.8–12V, 650mA
Weight: 3.9 oz. (108g)
Dimensions: 4" x 2½" x ½" (102 x 65 x 16 mm)
Protection: Short, Over Charge, Over Discharge, Over Current, Over Temperature

Warranty

Vernier warrants this product to be free from defects in materials and workmanship for a period of 1 year from the date of shipment to the customer. This warranty does not cover damage to the product caused by abuse or improper use.

Measure. Analyze. Learn.™
Vernier Software & Technology
13979 S.W. Millikan Way • Beaverton, OR 97005-2886
Toll Free (888) 837-6437 • (503) 277-2299 • FAX (503) 277-2440
info@vernier.com • www.vernier.com

Rev.~~2/01/11~~8/2/11