QUANTUM BATTERY 3

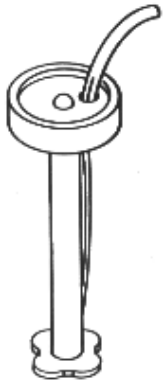
OPERATING INSTRUCTIONS

1. INTRODUCTION

The Quantum Battery 3 is a rechargeable power pack designed for (3.6 volt) portable flash systems. These systems normally operate on 3 alkaline or nicad cell batteries. The Quantum Battery 3 replaces them and provides hundreds to thousands of flashes per charge and faster recycling times. Its status monitor informs you of battery charge level. Protected outputs prevent accidental overload, and this powerful, rugged battery can be recharged anytime without the "memory" effect of nicads.

2. USING FOR THE FIRST TIME

The Quantum Battery 3 supplies power to your flash by means of a Power Module.



Power Module J
The Power Module J was specially designed for use with the Ascor Auto 1600 flash. To use, remove the battery cap and insert Power Module J into the flash, screw the outer rim of the Power Module into place.

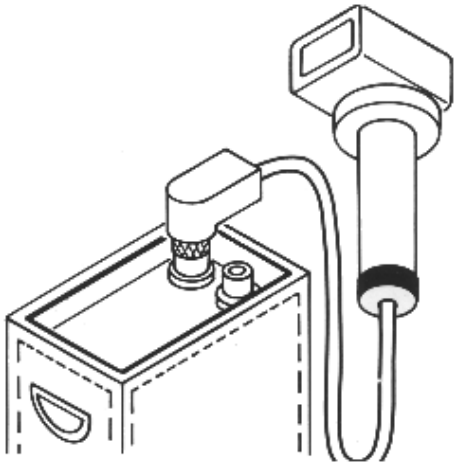
New modules are continually being developed. The most recent list is available with our brochure or can be obtained through your dealer, (For custom designed modules - inquire directly to Quantum).

3. BATTERY OPERATION & RECHARGING

IMPORTANT! ALWAYS FOLLOW THESE PROCEDURES.

- **Turn the switch off when not using.**
- **Recharge after each use and store in a fully charged state.**
- **When all 3 green lights go out stop using and recharge immediately. Do not allow the battery to discharge further.**

OPERATION



1. Insert the Power Module into your flash and plug its cord into one of the Quantum Battery 3 "FLASH" outputs as shown in the drawing on the following page. You may also connect a second flash to the other "FLASH" output.

Note: Always disconnect a Power Module by pulling on its plug, not the cord.

2. Turn the flash unit and the Quantum Battery 3 on. If the red STOP! indicator lights, turn the battery off! Either the power module has been placed incorrectly, it is not the correct Power Module for your flash, or there is a short circuit. Check the Power Module instructions.

3. Assuming the Power Module is properly placed, the flash will be powered. One, two, or three green indicators should light, indicating ¼, ½, or ¾ - plus charge left in the battery. The yellow ON indicator will stay lit.

4. You can begin shooting. After firing the flash some green indicators may go out, then come on again, after the flash recycles. The status of the battery is most accurately indicated a minute or more after firing the flash.

5. IMPORTANT. When the green lights do not come back on after flash recycling, shut off the Quantum Battery 3 and recharge. Allowing the battery to discharge further will severely decrease the cells' recharging lifetime, possibly requiring replacement.

6. To carry the Quantum Battery 3 clip it to your belt or connect a camera strap to the "D" rings for over the shoulder wearing. Or perhaps you prefer keeping the Quantum Battery in your camera bag or shooting jacket pocket while you work.

NORMAL CHARGING

Turn the Quantum Battery switch OFF. Plug the charger into a live outlet and insert the recharge plug into the CHG jack. THE CHG INDICATOR SHOULD LIGHT as well as the BATTERY and ON lights.

Charge for the times given below. This is important to maximize performance of your battery.

Usage	**Charging**
Full discharge - all green lights out.	Overnight, or up to 24 hours.
Discharge to ¼ level.	Overnight.
Discharge to ¾ or ½ level.	6-8 hours.
Emergency power after full discharge.	Recharge 2-6 hours for partial charge. (Gives 40 to 80% of full charge). After Emergency power use, give a full overnight charge.

Use only the charger supplied - others will not work.

RECONDITIONING CHARGE

In the event your Quantum Battery is allowed to discharge well beyond the point when all green lights are off, it may need a reconditioning charge. This may occur if the battery is accidentally left on, or is used heavily several times in a row without full recharging. In any case, should the battery appear to have lost substantial capacity, give it a reconditioning charge as follows:

1. Connect the charger as usual.

2. Switch the Quantum Battery to ON.

3. The CHG indicator will not light, but the BATTERY and ON lights will.

4. Charge like that for 24 hours.

After the above reconditioning charge, use and charge the battery normally. DO NOT DO THIS RECONDITIONING CHARGE EXCEPT AS NECESSARY TO REVIVE THE BATTERY THAT CANNOT BE CHARGED NORMALLY. (With normal use the reconditioning charge would not be necessary.)

4. CARE AND MAINTENANCE

- If the Quantum Battery is not used for long periods of time charge it every 3-6 months to maintain maximum recharge life. Store at room temperature.
- Recharge indoors at room temperature.
- Never submerge the charger or the Quantum Battery in water.
- Use the Quantum Battery between temperatures -40ºF and 120ºF (-40º C to 55ºC).

In Case Of Trouble

- Check for the proper Power Module orientation. Is it seated firmly in the battery compartment? Is it the correct Power Module for your flash?
- Be sure Power Module is securely plugged into an output jack.
- Is the flash unit switched on?
- If the unit appears not to be charging check that the wall outlet is live, the charge plug is all the way in the CHG jack, and the switch is off.
- When the capacity of the battery on a full charge diminishes substantially, the cells can be replaced by sending the Quantum Battery and its charger to the factory either directly or through a dealer. First be sure the batteries have been given a "reconditioning" charge - see the charging instructions.
- If you have further questions do not hesitate to contact Quantum Instruments Inc.

Specifications subject to change.

CONTAINS SEALED LEAD ACID BATTERY.
MUST BE RECYCLED OR DISPOSED OF PROPERLY.

DO NOT PLACE USED BATTERIES IN YOUR REGULAR TRASH!

Return this battery to a federal or state approved sealed lead battery recycler.
This may be where you purchased the battery.