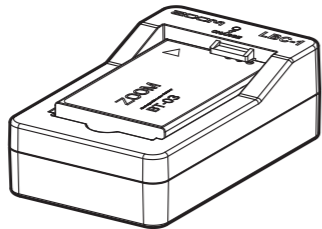




LBC-1

Li-ion Battery Charger



OPERATION MANUAL

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The **LBC-1** is a recharger for the **Q8** lithium ion battery (ZOOM BT-03) and the **Q4** lithium ion battery (ZOOM BT-02). The **Q4/Q8** Handy Video Recorder, BT-02/BT-03 lithium ion battery and ZOOM AD-17 AC adapter are sold separately.

Specifications

Input	DC5V 1000mA (USB Mini B type)	Recharging times	BT-02	By PC: about 3 hours Using ZOOM AD-17: about 2 hours and 15 minutes
Output	DC4.2V 930mA		BT-03	By PC: about 4 hours and 30 minutes Using ZOOM AD-17: about 2 hours and 45 minutes
Power supply	PC: USB bus power AC outlet: ZOOM AD-17 AC adapter (sold separately)	External dimensions	82 (length) x 50 (width) x 29 (height) mm	
Supported batteries	BT-02 (sold separately), BT-03 (sold separately)		Weight	40g
Operating temperature range	+5 °C ~ +35 °C (charging)			

Safety Precautions/Usage Precautions

Safety Precautions

In this OPERATION MANUAL, symbols are used to highlight warnings and cautions that you must read to prevent accidents. The meanings of these symbols are as follows.

WARNING Something that could cause serious injury or death	CAUTION Something that could cause injury or damage to the equipment
-------------------------------------------------------------------	-----------------------------------------------------------------------------

Other symbols used

An action that is mandatory	An action that is prohibited
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WARNING

Operation using an AC adapter

- Never use any AC adapter other than a ZOOM AD-17 (sold separately).

Alterations

- Do not open the case or modify the product.

CAUTION

Product handling

- Do not drop, bump or apply excessive force to the unit.
- Be careful not to allow foreign objects or liquids enter the unit.
- Do not use any rechargeable battery other than the ZOOM BT-02 or the ZOOM BT-03.

Operating environment

- Do not use in extremely high or low temperatures.

- Do not use near heaters, stoves and other heat sources.
- Do not use in very high humidity or where it could be splashed by water.
- Do not use in places with frequent vibrations.

AC adapter handling

- When disconnecting the power plug, always pull on the power plug itself.
- When not using the unit for a long time, disconnect the power plug from the outlet.

Usage Precautions

Interference with other electrical equipment

In consideration of safety, the **LBC-1** has been designed to minimize its emission of electromagnetic waves and to suppress interference from external electromagnetic waves. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves could result in interference if placed nearby. If this occurs, place the **LBC-1** and the other device farther apart.

With any type of electronic device that uses digital control, including the **LBC-1**, electromagnetic interference could cause malfunction, corrupt or destroy data and result in other unexpected trouble. Always use caution.

Cleaning

Use a soft cloth to clean the exterior of the unit if it becomes dirty. If necessary, use a damp cloth that has been wrung out well to wipe it. Never use abrasive cleansers, wax or solvents such as alcohol, benzene or paint thinner.

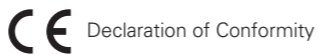
Handling precaution

Do not touch the metal connector on the rechargeable connection area.

Breakdown and malfunction

If the unit becomes broken or malfunctions, immediately disconnect the AC adapter, turn the power off and disconnect other cables. Contact the store where you bought the unit or ZOOM service with the following information: product model, serial number and specific symptoms of breakdown or malfunction, along with your name, address and telephone number.

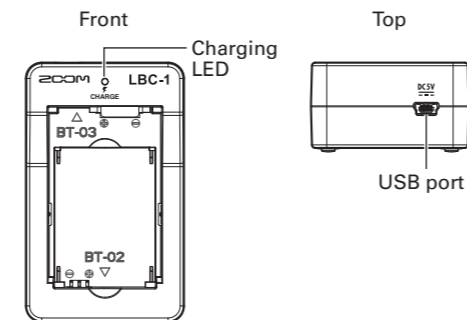
For EU Countries



You might need this OPERATION MANUAL in the future. Always keep it in a place where you can access it easily.

The contents of this document and the specifications of the product could be changed without notice.

Part Names



Charging LED: While the battery is charging, the Charging LED will stay lit.

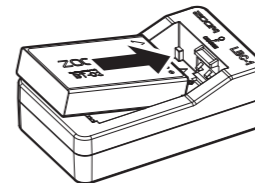
USB port: Use a USB cable to connect to a USB power supply.

Charging the battery

1. Insert the battery into the LBC-1.



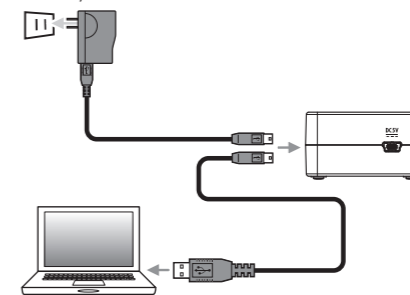
ZOOM BT-02



ZOOM BT-03

2. Connect a USB power source (running computer or ZOOM AD-17 AC adapter).

While the battery is charging, the Charging LED will stay lit.



3. After recharging completes, disconnect the cable from the USB power source.

The Charging LED will become unlit.

NOTE

Recharging a battery to 100% takes about the following amount time. (The amount of time required will vary depending on the conditions.)

- When connected to a computer
 - ZOOM BT-02: about 3 hours
 - ZOOM BT-03: about 4 hours and 30 minutes
- When using an AC adapter
 - ZOOM BT-02: about 2 hours and 15 minutes
 - ZOOM BT-03: about 2 hours and 45 minutes

CAUTION

- The surrounding temperature should be between 5 °C and 35 °C (41 °F and 95 °F) when charging. At other temperatures, the battery could become hot, damaged or weakened.
- Do not leave the cable connected for a long time after charging completes.

FCC regulation warning (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

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