A150micro rechargeable li-ion Battery

User Manual

WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR BEBOB A150MICRO BATTERY! PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

Features

- A high capacity battery which is compact and lightweight. Direct fitting to a camera via A-Mount (Gold-mount compatible)
- Five-step LED power indicator (100% - 80% - 60% - 40% - 20%).

Safety instructions

- Only for professional use! Keep batteries out of reach of children and personnel that has not been instructed in the use of high capacity Lithium-ion batteries!
- Use only with recommended charger.
- Keep the battery dry and do not immerse in water.
- Never open the case of the battery.
- Do not expose to temperature over 60°C.
- Do not expose the battery to fire! May explode if thrown into fire!
- Maximum Load 16.0A.
- Do not put the battery on a device when the red charging LED flashes.
- Handle with care! Do not throw! Do not drop!

Charging

- Never load unattended
- Wait 30 Minutes after discharge before you put the battery on a charger.
- The bebob A150micro battery can be charged with an external bebob charger (or equivalent) with Lithium-ion (Li-ion) charging ability.
- Approximate charge time may vary depending on charger and temperature.
- bebob A150micro can be charged in ambient temperature for optimum performance at 10°C - 30°C.
- bebob A150micro batteries can be recharged in any charge condition.

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Discharging

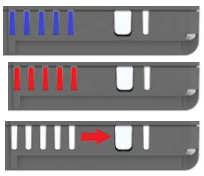
- Maximum load is 16.0A. When using the battery with video or lighting equipment, power consumption of the equipment must be 16.0A or below. For the protection of the battery, a load of 16.0A or over may activate the internal protection circuit and stop supply of power. In this case the status led will turn red.
- The battery can be used in ambient temperature of - 20°C - + 55°C.

Storage

- Storage temperature range is - 20°C ~ + 35°C (<85% humidity).
- To store the battery for a long period (longer than 4 Weeks), the battery should be charged between 50% and 75%. The battery should be recharged every 4 Weeks.
- After storage some self-discharge will occur. Before re-use it is advisable to recharge the battery fully.

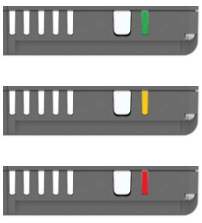
Camera Data Communication

- Blue leds: Arri/Sony Data Protocol
- Red leds: Red Data Protocol
- To switch between both status, press the Check button for 5s



Status led

- Status led lighting Green: Full Capacity over 70% of New
- Status led lighting Yellow: Full Capacity between 50% and 70% of New
- Status led lighting Red: Full Capacity under 50% of New



Flash Light

- To switch On/Off press the Check Button Twice

Specifications

Model	A150micro
Mount	A-Mount (Gold-mount compatible)
Capacity	10,2Ah; 147Wh
Voltage	14,4V DC
Maximum Output Voltage	16.8 V DC
End Voltage	12.0 V
Cells	Lithium-Ion Trimix made in Japan
Max. Discharge Current	16.0A
Twist D-Tap	14.4V unreg. Max. 5A
USB Port	5V, 1.0A
Fuel Gauge	5-Step LED
Weight	0,83 Kg
Dimensions (WxHxD)	75x101x65mm
Chargers	bebob, idx, sony, pag
Charging time (bebob AS2/AS4)	3 Hours
Operating Temp. Range Charge Discharge Storage	 + 10°C ~ + 30°C recommended - 20°C ~ + 55°C - 20°C ~ + 35°C (<85% RH)

Warranty

- The A150micro is covered by a 2 years unconditional warranty on all parts, except the cells.
- The cells are covered by a 1 year warranty, 70% of the original capacity.
- For warranty issues or if you have any additional questions, please contact the appropriate bebob distributor listed at www.bebob.de.

Disposal

- The A150micro battery has to be disposed within a dedicated collection container for used device batteries. Please be aware that only empty batteries are allowed for disposal in collection containers. In case the battery is not completely discharged, precautions against a potential short-circuit have to be taken.

Transport as of April 1st 2016

- This Summary reflects our current Knowledge.

1. Transport by Commercial Airline / Carry-on Luggage

- **Subject to prior authorization of the carrier**, you can transport in your **carry-on luggage** a A150micro attached to the camera or equipment it powers.
- You can transport in your **carry-on luggage** a maximum of 2 spare A150micro:
  - Put tape over the contacts.
  - Put each single battery in a plastic bag before packing it in your **carry-on luggage**
- **A150micro do not need to be discharged to 30% SoC for transport as personal luggage, this is only a requirement of cargo shipments.**
- Carry a copy of the bebob UN Transport Documentation and A150micro UN Certificate.
- We recommend that you confirm with your carrier of choice, to determine any further restriction or local policies, before travelling. **You will find the actual regulation of your carrier of choice in the bebob transport information system** www.fly-lithium.com,

2. Transport by Commercial Airline / Checked-in Luggage

- **Subject to prior authorization of the carrier** You can transport in your **checked-in luggage** a A150micro attached to the camera or equipment it powers and a maximum of 3 A150micro spare packed in the same piece of luggage
- **A150micro do not need to be discharged to 30% SoC for transport as personal luggage, this is only a requirement of cargo shipments.**
- Carry a copy of the bebob UN Transport Documentation and A150micro UN Certificate.
- We recommend that you confirm with your carrier of choice, to determine any further local restriction or policies, before travelling. **You will find the actual regulation of your carrier of choice in the bebob transport information system** www.fly-lithium.com,

3. Transport as air-, road- and sea-freight

- Li-Ion batteries and so bebob A150micro, when shipped by air, road or sea are classified as dangerous goods class 9 and subject to special UN certified packaging.
- Air transport authority training and authorisation (PK 1/PK 2) are required for packing A150micro, for an air cargo shipment.
- **Li-Ion batteries for air cargo must have a state-of-charge of no more than 30% for shipping, means only one out of the five fuel gauge led lights up.**
- We recommend that you confirm with your carrier of choice, to determine any local rules and policies, before shipping.
- **You will find actual regulations of the carrier of your choice in the bebob transport information system** www.fly-lithium.com,

DECLARATION OF CONFORMITY UN38.3

We herewith confirm that each battery of this type is proved to meet the requirements of applicable tests in the UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, Part III, Sub-Section 38.3.

In the following, lithium battery test summary according to Sub-Section 38.3.5

(a), (b) Manufacturer:	Bebob factory GmbH Höglwörther Str. 350 81379 München Germany	Phone:+49 (0)8963 – 48518 Fax: +49 (0)8985 – 6348513 E-Mail: norbert.hans@bebob.de Webpage: www.bebob.de
Customer:	Bebob factory GmbH Höglwörther Str. 350 81379 München Germany	Phone: +49 (0)8963– 48518 Fax: +49 (0)8985 – 6348513 E-Mail: norbert.hans@bebob.de Webpage: www.bebob.de
(c) Test laboratory:	Batteryuniversity GmbH Am Sportplatz 30 63791 Karlstein am Main Germany	Phone: +49 (0)6188 – 99410-0 Fax: +49 (0)6188 – 99410-20 E-Mail: mail@bu-lab.eu Webpage: www.bu-lab.eu
(d) Report reference no.:	BU-201900158-B1	
(e) Date of test report:	June 28, 2019	
(f) Description of devices under test:	(i) Type: (ii) Mass: (iii) Watt-hour rating: (iv) Physical description: (v) Model numbers:	Lithium-ion batteries 0.8 kg 147.0 Wh 4S3P NCR 18650 GA A150Micro
(g) Performed tests:	T.1 Altitude simulation: T.2 Thermal test: T.3 Vibration: T.4 Shock: T.5 External short circuit: T.6 Impact/Crush: T.7 Overcharge: T.8 Forced discharge:	Passed Passed Passed Passed Passed Not performed Passed Not performed
(h) Reference to assembled battery testing requirements:	Not applicable	
(i) Applied standard:	UN ST/SG/AC.10/11/Rev.6, Amend.1 Recommendations of the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Part III, section 38.3, Lithium metal and lithium ion batteries	
(j) Signature:	June 28, 2019	Klaus Heck, Managing Director

Note: This confirmation is valid only in connection with the report reference