



## V150 rechargeable li-ion Battery USER MANUAL

**WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR BEBOB V150 BATTERY! PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE**

### Features

- A high capacity, battery which is compact and lightweight. Direct fitting to a camera via V-Mount.
- Five-step LED power indicator (100% - 80% - 60% - 40% - 20%).
- From SN V15001684, full Capacity Status LED (green over 70%; yellow between 50% and 70%; red under 50%)

### 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

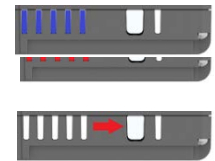
- Never leave batteries unattended while charging
- Wait 30 Minutes after discharge before you put the battery on a charger.
- The bebob V150 battery can be charged with an external bebob charger (or equivalent) with Lithium-ion (Li-ion) charging ability.
- Approximate charge time may vary depending on charger and temperature.
- bebob V150 can be charged in ambient temperature for optimum performance at 10°C - 30°C.
- bebob V150 batteries can be recharged in any charge condition.

## 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 Fuse will self-rest after a couple of minutes
- The battery can be used in ambient temperature of - 20°C - + 55°C.

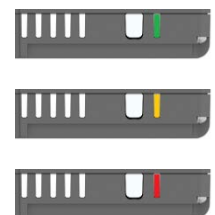
## Camera Data Communication

- 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



## 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.

## Warranty

- The V150 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](http://www.bebob.de).

## Disposal

- The V150 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.

## Specifications

Model	V150
Mount	V-Mount
Capacity	6,0Ah; 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. 35W
USB Port	5V, 1.0A
Fuel Gauge	5-Step LED
Weight	0,83 Kg
Dimensions (WXHxD)	94x144x58mm
Chargers	bebob, idx, sony
Charging time (bebob VS2/VS4)	3 Hours
Operating Temp. Range	Charge: + 10°C ~ + 30°C recommended Discharge:- 20°C ~ + 55°C Storage:- 20°C ~ + 35°C (<85% RH )

## Transport as of April 1<sup>st</sup> 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 V150 attached to the camera or equipment it powers.
- You can transport in your **carry-on luggage** a maximum of 2 spare V150:
  - Put tape over the contacts.
  - Put each single battery in a plastic bag before packing it in your **carry-on luggage**
- **V150 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 [V150 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](http://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 V150 attached to the camera or equipment it powers and a maximum of 3 V150 spare packed in the same piece of luggage
- **V150 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 [V150 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](http://www.fly-lithium.com),**

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

- Li-Ion batteries and so bebob V150, 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 V150, 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](http://www.fly-lithium.com),**

**www.battery  
university.eu**

**CONFIRMATION UN 38.3 TESTING**

WE HEREWITH APPROVE THAT EACH BATTERY OF THIS TYPE IS PROVED TO MEET THE REQUIREMENTS OF EACH APPLICABLE TEST IN THE UN MANUAL OF TESTS AND CRITERIA, PART III, SUB-SECTION 38.3, REV. 6

<b>REPORT NO.:</b>	<b>BU-2015-03104-3-0-B1</b>
<b>Product:</b>	<b>LITHIUM ION BATTERY (rechargeable)</b>
<b>Designation:</b>	<b>4S3P NCR18650GA (14.4V/9.9Ah)</b>
<b>Article Number:</b>	9045 · V150
<b>Manufacturer:</b>	<b>bebob factory GmbH</b> Höglwörthstr. 350 · D-81379 München · Germany

<b>PERFORMED TESTS</b>	<b>RESULTS</b>
38.3.4.1 <b>Test 1: Altitude Simulation</b>	passed
38.3.4.2 <b>Test 2: Thermal Test</b>	passed
38.3.4.3 <b>Test 3: Vibration</b>	passed
38.3.4.4 <b>Test 4: Shock</b>	passed
38.3.4.5 <b>Test 5: External Short Circuit</b>	passed
38.3.4.6 <b>Test 6: Impact/Crush</b>	not applicable
38.3.4.7 <b>Test 7: Overcharge</b>	passed
38.3.4.8 <b>Test 8: Forced Discharge</b>	not applicable

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This confirmation is only valid in connection with the report mentioned above, and thus without signature. The listed regulation reflects the status at the time of the release of this confirmation.