



## V200 rechargeable li-ion Battery USER MANUAL

**WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR BEBOB V200 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 V20000810, 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 10.0A.
- Do not put the battery on a device when the red charging LED flashes.
- Handle with care! Do not throw! Do not drop!

## Charging

- The bebob V200 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 V200 can be charged in ambient temperature for optimum performance at 10°C - 30°C.
- bebob V200 batteries can be recharged in any charge condition.

## Discharging

- Maximum load is 10.0A. When using the battery with video or lighting equipment, power consumption of the equipment must be 10.0A or below. For the protection of the battery, a load of 10.0A 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.

## 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 V200 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).

## Specifications

|                               |  |
|-------------------------------|--|
| Model                         | V200   |
| Mount                         | V-Mount  |
| Capacity                      | 6,0Ah; 296Wh   |
| 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        | 10.0A  |
| Twist D-Tap                   | 14.4V unreg. Max. 35W  |
| USB Port                      | 5V, 1.0A   |
| Fuel Gauge                    | 5-Step LED   |
| Weight                        | 1.0 Kg   |
| Dimensions (WXHxD)            | 94x144x58mm  |
| Chargers                      | bebob, idx, sony   |
| Charging time (bebob VS2/VS4) | 4 Hours  |
| Operating Temp. Range         | Charge: + 10°C ~ + 30°C recommended<br>Discharge:- 20°C ~ + 55°C<br>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

- V200 are forbidden in your **carry-on luggage**

### 2. Transport by Commercial Airline / Checked-in Luggage

- **Subject to prior authorization of the carrier** You can transport in your **checked-in luggage** a V200 attached to the camera or equipment it powers and a maximum of 3 V200 spare packed in the same piece of luggage
- **V200 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 [V200 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 V200, 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 V200, 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 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),**



## CONFIRMATION UN 38.3 TESTING

WE HEREWITH CONFIRM 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. 5, Amend. 2

|                        |  |
|------------------------|--|
| <b>REPORT NO.:</b>     | <b>BU-2015-03104-4-0-B1</b>  |
| <b>Product:</b>        | <b>LITHIUM ION BATTERY</b>   |
| <b>Designation:</b>    | <b>4S4P NCR18650GA (14.4V/13.6Ah)</b>                                      |
| <b>Article Number:</b> | 9046 · V200  |
| <b>Manufacturer:</b>   | <b>bebob factory GmbH</b><br>Höglwörthstr. 350 · D-81379 München · Germany |

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



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.