V200micro rechargeable li-ion Battery

User Manual

WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR BEBOB V200MICRO 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%).

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!

bebob factory GmbH – Höglwörtherstr. 350 – D-81379 München – Tel.: +49 89 27818282
www.bebob.de

April 2020

Charging

- Never leave batteries unattended while charging
- Wait 30 Minutes after discharge before you put the battery on a charger.
- The bebob V200micro 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 V200micro can be charged in ambient temperature for optimum performance at 10°C - 30°C.
- bebob V200micro 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 status led will turn red.
- 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

Specifications

Model	V200micro
Mount	V-Mount
Capacity	13,6Ah; 196Wh
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	0,95 Kg
Dimensions (WxHxD)	75x101x81mm
Chargers	bebob, idx, sony, pag
Charging time (bebob VS2/VS4)	4 Hours
Operating Temp. Range Charge Discharge Storage	 + 10°C ~ + 30°C recommended - 20°C ~ + 55°C - 20°C ~ + 35°C (<85% RH)

Warranty

- The V200micro 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 V200micro 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.

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.

Transport as of April 1st 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

- V200 are forbidden in your **Checked-in luggage**

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,

Accredited according to DIN EN ISO/IEC 17025 by the

Deutsche Akkreditierungsstelle GmbH

as test laboratory

UN 38.3 TEST REPORT

Test report no.: BU-202000169-B1 | Date of issue: June 29, 2020

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
Customer:	Bebob factory GmbH Höglwörther Straße 350 81379 München Germany	Phone: +49 (0) 89 8563 485 Fax: E-Mail: info@bebob.de Webpage: www.bebob.de
Applied standard(s):	UN ST/SG/AC.10/11/Rev.7 Recommendations of the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Part III, section 38.3, Lithium metal and lithium ion batteries	
Description of devices under test (DUT):	Type: Lithium ion batteries Mass: 973 g Watt-hour rating: 195.84 Wh Configuration: 4S4P NCR 18650 GA rechargeable battery in black case Model numbers: V200micro	
Reference to assembled battery testing requirements, if applicable:	Not applicable	
Manufacturer:	bebob factory GmbH Höglwörther Str. 350 81379 München Germany	Phone: +49 ((0) 8563– 485-0 Fax: E-Mail: info@bebob.de Webpage: www.bebob.de
DUTs received on:	June 03, 2020	
Total test duration:	June 03, 2020 – June 29, 2020	
Result:	All performed tests were passed.	
Additions:	This test report contains the result of a singular investigation carried out on the DUTs submitted. This report shall not be reproduced, except in full, without the written approval of the Batteryuniversity GmbH. Test reports without signature are not valid. Throughout this report a point is used as the decimal separator.	

Test report written by:

Johannes Junker
Testing engineer

Date: June 29, 2020 Signature:

Test report approved by:

Klaus Heck
Managing director

Date: June 29, 2020 Signature: