



A290RM CINE rechargeable li-ion Battery USER MANUAL

WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR BEBOB A290RM CINE BATTERY! PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

Features

- A high capacity, high load (20.0A) battery which is compact and lightweight. Direct fitting to a camera via Gold Mount.
- Five-step LED power indicator (100% - 80% - 60% - 40% - 20%).
- Full Capacity Status LED (green over 80%; yellow between 60% and 80%; red under 60%)
- Full Data Communication with the Camera (Info Li, Digiview,...)

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 20.0A. (Over CINE GM-Mount)
- Do not put the battery on a device when the red charging LED flashes.
- Handle with care! Do not throw! Do not drop!

Charging

- Wait 30 Minutes after discharge before you put the battery on a charger.
- The bebob A290RM CINE 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 A290RM CINE can be charged in ambient temperature for optimum performance at 10°C - 30°C.
- bebob A290RM CINE batteries can be recharged in any charge condition.

Discharging

- Maximum load is 20.0A. When using the battery with video or lighting equipment, power consumption of the equipment must be 20.0A or below. For the protection of the battery, a load of 20.0A 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 A290RM CINE is covered by a 2 years unconditional warranty on all parts, except the cells.
- The cells are covered by a 2 year warranty, 80% 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 A290RM CINE 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 | A290RM CINE |
| Mount | Gold Mount |
| Capacity | 6,0Ah; 294Wh |
| Voltage | 14,4V DC |
| Maximum Output Voltage | 16.8 V DC |
| End Voltage | 12.0 V |
| Cells | Lithium-Ion Trimix HL made in Japan |
| Max. Discharge Current | 20.0A (over CINE GM-Mount) |
| Twist D-Tap | 14.4V unreg. Max. 35W |
| USB Port | 5V, 1.0A |
| Fuel Gauge | 5-Step LED |
| Status | Green: Full Capacity over 80% Yellow: Full Capacity between 60 and 80% Red: Full Capacity under 60% |
| Weight | 1.39 Kg |
| Dimensions (WXHxD) | 94x144x77mm |
| Chargers | bebob, antonbauer |
| Charging time (bebob VS2/VS4) | 6 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 1st 2016

- This Summary reflects our current Knowledge.

1. Transport by Commercial Airline / Carry-on Luggage

- A290RM CINE are forbidden in your **carry-on luggage**.

2. Transport by Commercial Airline / Checked-in Luggage

- A290RM CINE are forbidden in your **checked-in luggage**.

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

- Li-Ion batteries, and so bebob A290RM CINE, 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 A290RM CINE, 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,**

**www.battery
university.eu**

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

| | |
|------------------------|--|
| REPORT NO.: | BU-2016-04659-0-B1 |
| Product: | LITHIUM ION BATTERY |
| Designation: | 4S6P NCR18650GA (14.4V/20.4Ah/ 293.76Wh) |
| Article Number: | 9076 · A290RM-Cine |
| Manufacturer: | bebob factory GmbH 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 |

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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.