A90RM CINE rechargeable li-ion Battery

USER MANUAL

WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR BEBOB A90RM CINE BATTERY! PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

Features

- A high capacity, high load 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!

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Charging

- The bebob A90RM 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 A90RM CINE can be charged in ambient temperature for optimum performance at 10°C - 30°C.
- bebob A90RM 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 A90RM CINE is 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.

Specifications

Model	A90RM CINE
Mount	Gold Mount
Capacity	6,0Ah; 89Wh
Voltage	14,8V 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	0,82 Kg
Dimensions (WXHXD)	94x144x58mm
Chargers	bebob, antonbauer
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 1st 2016

- This Summary reflects our current Knowledge.

1. Transport by Commercial Airline / Carry-on Luggage

- You can transport in your **carry-on luggage** a A90RM CINE attached to the camera or equipment it powers.
- You can transport in your **carry-on luggage** an unspecified number of spare A90RM CINE:

  - Put tape over the contacts.

  - Put each single battery in a plastic bag before packing it in your **carry-on luggage**
- **A90RM CINE 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.
- 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

- You can transport in your **checked-in luggage** a A90RM CINE attached to the camera or equipment it powers and a maximum of 3 A90RM CINE spare packed in the same piece of luggage
- **A90RM CINE 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.
- 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 A90RM 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) are required for packing any more than 2 A90RM 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 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,