



## CUBE 1200 rechargeable Li-Ion Battery USER MANUAL

**WE STRONGLY RECOMMEND THAT YOU READ THIS INSTRUCTION BEFORE USING YOUR CUBE 1200 BATTERY! PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE**

### Features

- A high-capacity, high-load on-ground battery with integrated charger
- 1172 Wh – 81,6 Ah
- Multivoltage (5,0V - 14,4Vnom - 24,0V - 48,0V)
- For cinematography cameras and lighting
- Recellable

### Safety Instructions

- Only for professional use! Keep batteries out of reach of children and personnel that has not been instructed concerning the use of high-capacity Lithium-Ion batteries!
- Use only with integrated charger.
- Keep the battery dry and do not immerse in water.
- Never open the case of the battery.
- Do not expose the battery to temperatures over 60°C.
- Do not expose the battery to fire! May explode if thrown into fire!
- Maximum load 500W.
- Handle with care! Do not throw! Do not drop!

## Charging

- Wait 30 Minutes after discharge before charging your battery.
- The bebob CUBE 1200 battery can be charged via the internal charger.
- Charging time ~ 8,5h
- Approximate charging time may vary depending on charger and temperature.
- For optimal performance, the bebob CUBE 1200 should be charged in ambient temperature around 10°C - 30°C.
- The bebob CUBE 1200 can be recharged in any state of charge.
- Charger input: AC IN 90-240V – 50-60Hz
- Input fuse: 1x5AT – 1 spare fuse
- Charging current 10A internal

## AC Adapter

- The bebob CUBE 1200 battery can be used as an 150W AC adapter when plugged into AC.
- When the device powered needs more than 150W, the overload gets compensated through the battery until the battery is empty.
- When the device powered needs less than 150W, the free power will be charged into the battery.
- When the AC Adapter is on, the Status led will light green



## Discharging

- 5,0V: 2x USB. 1x 2A self-resetting fuse
- 12V (unreg 12 to 16,8V): 2x XLR4 10A, 1x Twist D-Tap 10A, electronic fuses
- 24V (28,0V +/- 5V adjustable): 2x XLR3 10A, electronic fuses
- 48V (48,0V +/- 3V adjustable): 1x XLR10 10A electronic fuse
- The battery can be used in ambient temperature of - 20°C to + 55°C.

## Status LED

- Status LED lights up for 3 seconds after switch off:



- green: full capacity over 80%
- yellow: between 60% and 80%
- red: under 60%

- Status LED lights green when the CUBE is plugged into AC.

## Fuel Gauge



- Five-step LED power indicator
- Flashes while charging
- Lights up while discharging
- Last LED (20%) flashes when the capacity comes under 10%.

## Outputs LED's

- 12V/24V LED light up green when the CUBE is switched ON at 24V.
- 12V/48V LED light up green when the CUBE is switched ON at 48V.
- 12V/24V/48V LED are off when the CUBE is switched OFF.
- 12V/24V/48V LED turn first yellow and then red after 5s when overloaded (more than 10A). The output is locked. Remove or reduce load!
- 24V/48V LED flash red when the internal temperature of the CUBE reaches 90°C. 24V/48V output is locked. Remove or reduce load!

## Storage

- Storage temperature range is - 20°C to + 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 fully recharge the battery.

## Warranty

- The CUBE 1200 is covered by a 2 years unconditional warranty on all parts, except the cells.
- The cells are covered by a 2 year warranty, for 80% of the original capacity.
- For warranty issues, or if you have any additional questions, please contact the appropriate bebop distributor listed at [www.bebob.tv](http://www.bebob.tv).

## Voltage Selection

- Main Switch on Position OFF: No Voltages available



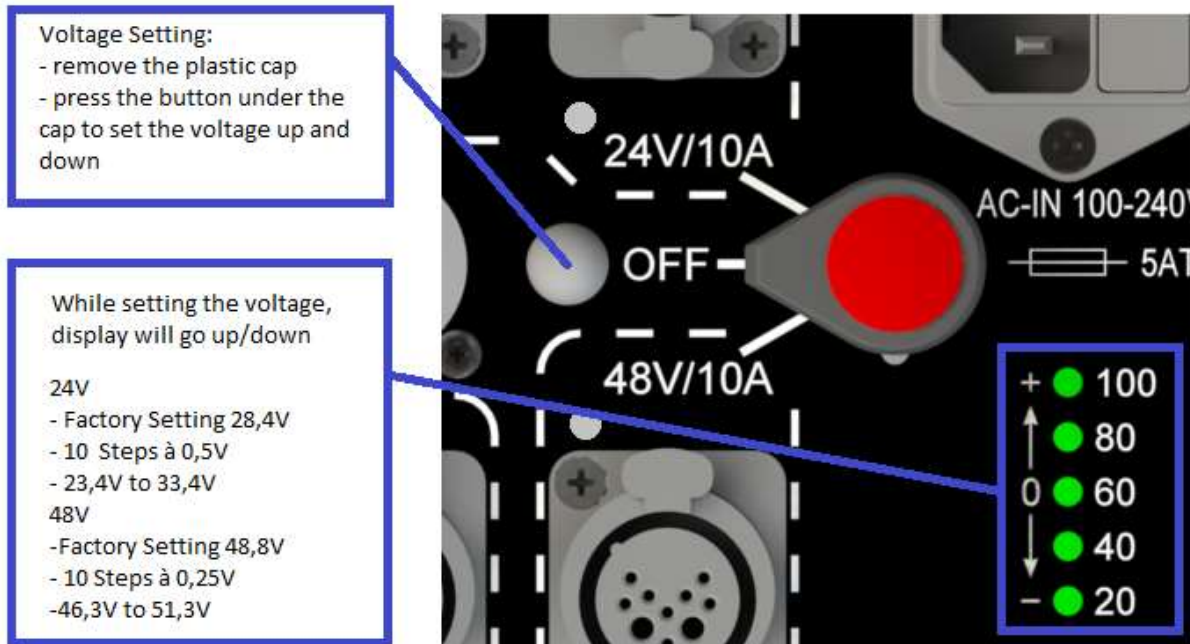
- Main Switch on Position 24V: 5, 12 and 24V Voltage available



- Main Switch on Position 48V: 5, 12 and 48V available



## Voltage Setting



## Disposal

- The CUBE 1200 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                 | CUBE 1200   |
| Capacity              | 1172 Wh – 81,6 Ah   |
| Voltage               | 5,0V DC<br>14,4V DC (12,0V to 16,8V unreg.)<br>28,0V DC (adjustable +/-5V)<br>48,0V DC (adjustable +/-3V) |
| Cells                 | Lithium-Ion Trimix HL made in Japan   |
| Max. Discharge Power  | 500W  |
| Fuel Gauge            | 5-Step LED  |
| Status                | Green: Full Capacity over 80%<br>Yellow: Full Capacity between 60 and 80%<br>Red: Full Capacity under 60% |
| Weight                | 8,95 Kg   |
| Dimensions (WXHxD)    | 208x356x167mm   |
| Charger               | Integrated  |
| Charging time         | 8,5 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

- The CUBE 1200 is forbidden in your **carry-on luggage**.

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

- The CUBE 1200 is forbidden in your **checked-in luggage**.

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

- Li-Ion batteries, including the bebob CUBE 1200, 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 the CUBE 1200 for an air cargo shipment.
- **Li-Ion batteries for air cargo must have a state-of-charge of no more than 30% for shipping – meaning 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 regulations of your carrier of choice in the bebob transport information system [www.fly-lithium.com](http://www.fly-lithium.com).**