



## 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

- 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

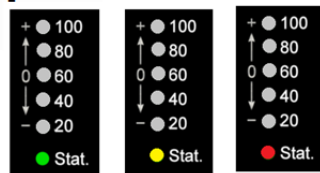


## Discharging

- 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

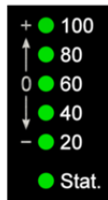
- Status LED lights up for 3 seconds after switch off:



- 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 bebob 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

**Voltage Setting:**

- remove the plastic cap
- press the button under the cap to set the voltage up and down

**While setting the voltage, display will go up/down**

**24V**

- Factory Setting 28,4V
- 10 Steps à 0,5V
- 23,4V to 33,4V

**48V**

- Factory Setting 48,8V
- 10 Steps à 0,25V
- 46,3V to 51,3V

AC-IN 100-240V  
5AT

+ 100  
↑ 80  
0  
↓ 40  
- 20

## Specifications

Model	CUBE 1200
Capacity	1172 Wh – 81,6 Ah
Voltage	5,0V DC 14,4V DC (12,0V to 16,8V unreg.) 28,0V DC (adjustable +/-5V) 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% Yellow: Full Capacity between 60 and 80% 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 Discharge:- 20°C ~ + 55°C 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).**