

HEDBOX

Note

Always verify that the unit is operating properly before use. REDPRO WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER

www.hed-box.com

Professional Digital Battery Pack

PB-D100V & PB-D100A



HEDBOX

User Manual

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Battery Pack Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Important Safety Instructions

- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Only use attachments/accessories specified by the manufacturer. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Overview / Features

The PB-D100V/A Battery Pack uses Lithium-Ion Battery Cells. Use the PB-D100V/A Battery Pack only with equipment whose Operation Manual/Operating Instructions recommends its use.

Caution On charging

- The battery pack can be charged within a temperature range of 0°C to 40°C (32°F to 104°F). However, we recommend charging within a temperature range of 10°C to 30°C (50°F to 86°F) to ensure optimum battery performance.
- The battery pack discharges naturally over time. To prolong the life of the product, it is recommended that you fully charge the battery pack before using it. For details on the charging procedure, refer to the Operation Manual/Operating Instructions supplied with the battery charger.
- The battery pack may become warm in use or while being charged. This is normal.

You can use original HEDBOX charger RP-DC80 and RP-DC100V to charge the PB-D100V and RP-DC100A to charge the PB-D100A Battery Pack.

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Specification

Battery Pack Type:	Lithium-ion Rechargeable Battery
Mount Type:	PB-D100V (V-Lock) ; BP-D100A (Anton Bauer)
Power Meter:	4-level LED Power indicator
Internal Battery Cells	Samsung SDI High Quality 18650 x 12
Maximum Voltage:	17,1 V DC
Nominal Voltage:	14.8 V DC
Max. Constant Output	8A / 100W (max)
Battery Capacity:	97.68 Wh / 6600mAh
USB Output:	5V, 10W / 2.1A (max) - Dust Protection Cover
D-Tap DC Output:	14.8V, 50W / 4A (max) - Dust Protection Cover
DC Jack Input:	16.8V / 2.3A - Dust Protection Cover
Charging Time:	approx. 200 minutes on RP-DC80
Operating Temperature:	-20°C to +45°C (-4°F to +113°F)
Mount material:	Aluminum Alloy
Dimensions (W/H/D)	96 × 152 × 59 mm
Net Weight:	780 g

If you want to know more about HEDBOX Products please visit our website: www.hed-box.com

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To the purchasers of the PB-D100V and PB-D100A Battery Pack

The RP-D100V / PB-D100A Lithium-ion Battery Pack has a rated capacity no more than 100 Wh. It **CAN BE and it is totally safe to be TRANSPORTED by AIR according to the IATA Regulations**, as it is non-hazardous lithium-ion battery. Related laws and regulations are, however, subject to change. For detailed conditions regarding the transport of battery packs, please consult your respective air transport company.

Battery life

- Battery life may be shortened due to storage or operation in high temperatures, storage with its full capacity, and frequent use.
- Renew the battery pack when the operating time with a completely charged battery pack becomes noticeably short or all LEDs flash because the self-diagnostics function has detected the end of battery life. If a Battery pack is deteriorated, all LEDs may not light when the CHECK button is pressed just after charging is completed.

Self-diagnostic function

When an abnormality is detected, all the LEDs flash. If this happens, stop using the battery pack immediately. Once the LEDs start flashing, the battery pack cannot be recharged

This product with the CE marking complies with the EMC Directive issued by the Commission of the European Community. Compliance with this directive implies conformity to the following

European standards:

- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environments:

- E1 (residential),
- E2 (commercial and light industrial),
- E3 (urban outdoors),
- E4 (controlled EMC environment, ex. TV studio).

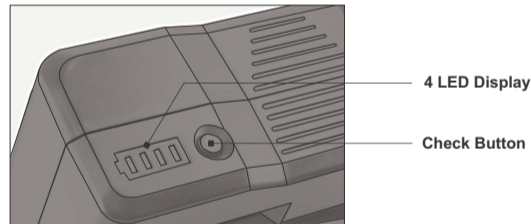
WARNING

- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Once the protection circuit has tripped, the battery pack will not return to normal automatically. To cancel the effect of the protection circuit, you must charge the battery pack with charger dedicated to the lithium-ion battery packs.

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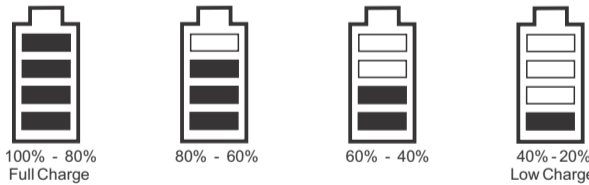
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POWER METER - LED Indicator



Testing the capacity of the Battery pack:

- The remaining capacity is indicated by a four-step LED Display
- Press the Check Button and the remaining Capacity of the Battery Pack will be displayed on LED Display (more than 80%, 60%, 40%, below 20%)



- If the Battery Pack is installed on the Camcorder with function of powering the camera, the LED Power Display may not show exact capacity status of the battery pack.
- When only one LED indicates please recharge the battery as soon as possible.

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D-Tap 14.8V , 8A Power Output

- The D-TAP DC Output socket can be used as 14.8V DC output, or DC charging input
- Open the rubber protective cover with D-TAP sign on it.
- Plug in the D-Tap lead for DC output, or for charging the battery .
- To keep D-Tap socket away from dust close the D-Tap output with rubber protective cover

The Maximum constant current that Battery provide during DC 14.8V Power Output is 8A

USB-Tap 5V , 1A Power Output

Battery offers 5V/1A USB Power Output for charging mobile phones and all other units on USB.

- Open the rubber protective cover with USB sign on it.
- Plug in the USB lead and connect with device that need to be charged.
- Press the CHECK Button to switch on the USB charging.
- To keep USB socket away from dust close the USB output with rubber protective cover.

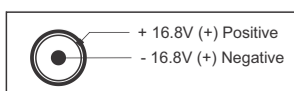
DC Power Jack - Charging input

Battery is provided with DC Power Jack input 5.5mm x 2.1mm.

This power Jack input is designed only for charging the battery with HEDBOX Battery Charger RP-DC80

- Open the rubber protective cover with DC sign on it.
- Plug in the Extension adaptor Cable HEDBOX model RP-DC8, connect the extension cable with HEDBOX Charger RP-DC80 and the Charging process of the Battery start automatically.
- To keep DC socket away from dust close the DC power input with rubber protective cover.

NOTE: The positive and negative (+ / -) orientation in the DC Power input Jack is not organized by standard orientation.



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Caution on Use

- Never short-circuit the battery pack terminals.
- Never attempt to open the battery pack.
- Avoid mechanical shock.
- Please consult the store where you purchased this battery pack or your sales representative before using the battery pack in a product whose Operation Manual/Operating Instructions does not explicitly state that the battery pack can be used, or before using the battery pack in conjunction with another power supply. In appropriate use of the battery pack may result in unit misoperation.

- The internal impedance of the battery pack increases as the temperature drops to 5°C (41°F) or below. This may result in a shorter operating time or the failure of the component to which it is connected to turn on. This phenomenon occurs more frequently in battery packs that have been charged many times than in new ones.

- The performance and operating time of the battery may drop under cold conditions. When this happens, do the following to extend the operating time of the battery pack:
 - Best Charging Performances is provided with HEDBOX charger model RP-DC80 within a temperature range of 10°C to 30°C (50°F to 86°F).

- Large discharge amount may expedite deterioration of battery pack's internal cells. To prevent this, use the PB-D100V or BP-D100A with discharge amount of about 5A or less.

- The maximum discharge amount is 8A for the PB-D100V or PB-D100A at 23°C (73°F). Continuous use at levels beyond the maximum discharge level may cause the protection circuit to shut off the current to protect the internal battery cells.

Caution On storage

- Never expose the battery pack to rain or moisture.
- Keep away from children.
- Never expose the battery pack to temperatures above 60°C (140°F). Store the battery pack in dry place at temperatures between 0°C to 23°C (32°F to 73°F).
- If the battery pack is to be stored for a short period (approximately more than 24 hours and a month or less), discharge the battery pack to 90% of its full capacity to prevent deterioration of battery pack's internal cells.
- When storing the battery pack for an extended period (more than a month), it is recommended that you discharge the battery pack to about 50% of its full capacity. (The two LED light up) While the battery pack is stored, charge it until the capacity reaches 50% once in 6 months.
- If the battery pack terminals become soiled, clean them with a soft cloth.

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