V-Mount Dual LCD Simultanius UPS Battery Charger

HED-DC150



HEDBOX

User Manual

EN English

Thank you for your purchase of the professional dual simultaneous power bank battery charger HED-DC150. This intelligent charger for digital camera and camcorder batteries was designed with advanced power charging technology, allowing you to charge your professional batteries at studio or at home. The charger is compatible with Li-Ion rechargeable batteries that run on power voltage of 14.4V to 14.8V. Please read these operating instructions carefully before operating this unit to power up professional camcorder or to charge battery pack.

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 block any ventilation openings.
- Install in accordance with the manufacturer's instructions.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Specially designed for use on all Hedbox Battery Packs.
- Don't try to disassemble or open the cover under any circumstance in order to avoid danger.
- The charger will be damaged if not used properly.
- Children should use it under the supervision of adults.
- Take out the rechargeable battery from the charger slot when the battery is entirely charged or if the charger process is stopped.
- It's common for the unit to feel warm when using.
- Avoid dropping and bumping otherwise the electrical components will be damaged.

WARNING

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- To avoid electrical shock, do not open the cabinet.

• When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit. If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.

• Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

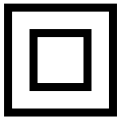
Product Confirmity Regulations



• This symbol is intended to alert the user that the product conforms to all EU directives.



• This symbol is intended to alert the user that the product may not be treated as household waste.



• This symbol is intended to alert the user that the product belonge to the Safety Class II: The product is ensured by double insulation and does not require a safety connection to electrical earth (ground).



• This symbol is intended to alert the user that the product is for indoor use only.



• This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



• This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



• This symbol is intended to alert the user that the product conforms to Restriction of Hazardous Substances in Electrical and Electronic Equipment.

• For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipent does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

- For the customers in Europe

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).

Product Features

- Charges a professional battery pack that runs on 14.4V to 14.8V
- Supplies power for professional studio cameras, LED light, field monitors etc.
- LCD displays the power, battery ON, charging, and UPS backs up power supply status.
- Provides constant output voltage of: 16.5V / 4.5A ; 75W
- Worldwide use with input between AC 100 - 240V;
- With advanced MCU control, charger fully controls the charging process of the battery.
- With CH1 or CH2 battery attached to the unit. On DC Power Out, RP-DC150 provides power bank backup power supply - UPS mode (Uninterruptible power supply) in case of AC failure.
- 100,000 levels of anti-static design, high temperature and fire-proof makes it safer.
- Passed MBTR 5000H test and has patent with more reliable quality warranty;

- Safety protection：
- Over temperature protection reaches at 85°C,
- Over voltage protection reaches at 19.5V,
- Over current protection reaches at 6.5A,
- Short circuit protection & Charging time protection

- Dual charging port provides simultaneous charging of two batteries with different capacities.
- Specially designed for use on all Hedbox Battery Packs.
- Dual charging technology, the CC and CV, provides high battery charging efficiency.
- Pre-charging function 0V activation efficiently extends battery life.

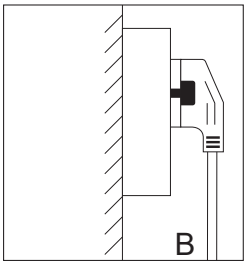
Overview

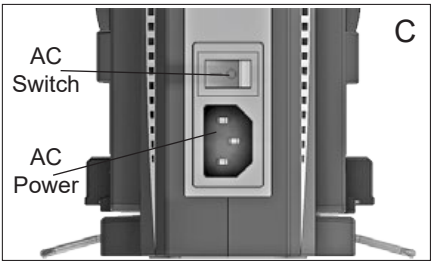


Product Components:

1. Main Power switch ON/OFF
2. Power Socket 100V - 240V / 50-60Hz
3. Fan Cooler (Provides cooling of the unit)
4. LCD Screen Monitor (Blue Backlight Ilumination)
5. CH1 and CH2 Battery Socket Indicator
6. CH1 and CH2 Battery Socket Holder
7. Battery release push up button
8. 4-Pin XLR (Female) DC Output 16.5V / 4,5A 75W
9. Retractable spider stability support legs

Operation instruction:





1.Plug the supplied power cord on the main AC power outlet (picture B).
2. Plug the other side of the supplied power cord to the charger AC Power (picture C).
3. Turn ON the AC Power Switch (Picture C).
4. The LCD screen will illuminate Blue and the HEDBOX Logo will turn on (picture D)

Battery instalation on to the charger:



1. On the bottom of the charger, use and spread wide the Spider Stability Support legs. This will ensure extra stability when the battery is attached.

2. Use your V-Mount battery. Insert the battery into the V-lock Mount plate. Be sure that the battery release of the charger firmly locks the battery. Observe the charger LCD monitor. If the battery is attached appropriately, it will illuminate the battery channel,and the current battery capacity.

LCD Display Legend Information:

LCD	Definition	Function declaration
	Channel 1 UPS	Displays that the battery is lock on channel 1 UPS mode is active
	Batt. Full	When icon is ON battery is fully charged
	Battery Capacity	Displays the current battery capacity in percentage (%)
	Charge	State Of Charge capacity LOGO
	battery charging progress	Displays the battery charging progress and battery capacity for channel 1
	Power ready	When icon is ON the charger has finished initialization and is ready for full operation
	battery charging progress	Displays the battery charging progress and battery capacity for channel 2
	Batt. Full	Icon is ON the battery is fully charged
	Battery Capacity	Displays the current battery capacity in percentage (%)
	Charge	State Of Charge capacity LOGO
	Channel 2 UPS	Displays that the battery is lock on channel 2 UPS mode is active

DC Out Powering & UPS Power Bank Mod:

1.To power any broadcast unit with DC 16.4V constant power from XLR DC out, use the supplied RPC-DC4X4 cable with 4-pin XLR (Male to Female) connector.
Connect the cable to the female charger DC 4-Pin XLR power out (picture F.)

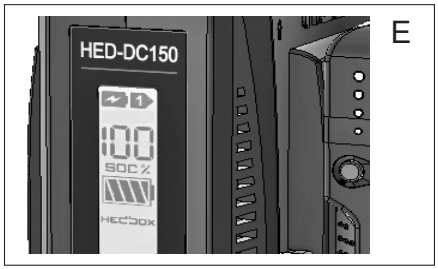
2. When an RPC-DC4X4 cable is plugged into the 4-pin XLR auxiliary power output (picture F) and the main power AC switch (picture C) is ON, the charging process of the battery will be suspended. The main DC power out of the charger will be distributed to the 4-Pin XLR power out with DC 16.5V / 4.5A / 75W.

3. When an RPC-DC4X4 Cable is plugged into the 4-pin XLR auxiliary power output (picture F) and the main power AC switch is turned OFF (picture C) or an unexpected main electric power failure occurs (AC input is cut off), charger with the inserted battery will automatically go to the UPS BACK UP POWER MODE (Power Bank).
In this mode, the HED-DC150V provides power to the DC Out, from the battery that is attached to the charger. On the LCD Screen, the UPS Icon will appear.
This indicates that the power from the battery is provided to the DC Out (picture E).

4. When two batteries are attached on the charger at the same time, the UPS powering (Power Bank) from the battery to the DC Out is made by priority.

5. Once the RP-DC4X4 cable is unplugged, the charger will continue the previous charging sequence from the same point of interruption.


F



E

Notice

• Please check that the components size and voltages are compatible according to your Camcorder DC Voltage Input or battery pack charging voltage and current.

Please use the manual instruction of the camcorder or battery pack, and read this manual carefully before using the unit with this AC Adaptor / Charger.

• We are not responsible for any damage caused by incorrect use or operation.

• This device is for indoor use only, don't put or use it in high temperatures and high moisture environment.

• It's a common phenomenon for the unit to feel warm when using;

• Avoid dropping and bumping otherwise the electrical components will be damaged;

• Don't try to disassemble or open the cover under any circumstance in order to avoid danger.

Specification

AC Power Input:	AC 100V ~ 240V / 50 - 60Hz
DC Power Output:	DC 16.5V / 4.5A / 75W (max)
Control Display:	LCD Display
Single Charger Out:	(CH1) / (CH2) | 16.8V / 3A
Dual Charger Out:	(CH1 & CH2) | 16.8V / 2A
Output Connection:	4-Pin XLR (Female)
Battery Charging Type:	Ni-CD , Ni-MH . Li-Ion
Operating Temperature:	–20°C to +45°C (–4°F to +113°F)
Dimensions (WxHxD):	225 x 141 x 100mm
Neto Weight:	1200g

• Design and specifications are subject to change without notice.

DISCLAIMER

Hedbox has made every effort to provide clear and accurate information in these User's Manual. All the data of this User's Manual (e.g. illustrations, text, specifications and data) are based on the latest information available and every care has been taken in compilation of the contents herein and in verification of its accuracy at the time of printing. As the aim of Hedbox is to give customers the most updated and state-of-the-art products, it may operate some technical modifications and improvements in time. Hedbox may consequently alter the information contained in this User's Manual without notice.

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If you find that some technical features or external appearance of your product differ from the ones inserted in this User's Manual, please send a detailed e-mail to support@hedbox.com.

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Note:
Always ensure that the unit is operating properly before use.
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PREMIUM QUALITY

HEDBOX

We Power Your Bussines



HED-BPU



NINA



NERO Series



BATTERY CHARGERS


HED-A60
RP-VBD78
RP-BP975
RP-LPE6H
UNIX
HOLD II
RP-DC200
4CH CHARGER