

V-Mount Dual LCD Simultaneous UPS Battery Charger



HED-DC150



HED50X

User Manual

Thank you for your purchase of the HEDBOX battery charger. 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. Please read these operating instructions carefully before operating this unit to charge battery pack.

Important Safety Instructions

- Retain these guidelines, adhere to all cautions, and comply with every directive.
- Do not use this apparatus near water. • Clean unit 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-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.
- 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.
- 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;

Product Conformity 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 belongs 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 equipment 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

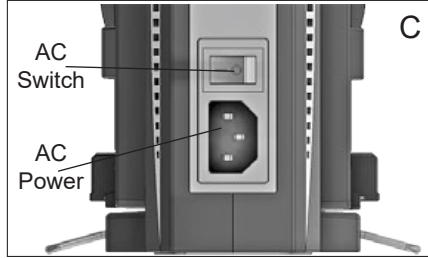
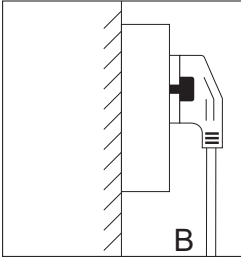
- Intelligent charging systems integrate the control systems within the charger and the electronics within the battery to allow precise control over the charging process. As a safety precaution with high-capacity batteries, a pre-charging stage is used. The charging cycle is initiated with a low current. If there is no corresponding rise in the battery voltage, it indicates that there is possibly a short circuit in the battery (zero volt activation).
- Constant current/constant voltage (CC/CV) charging mode effectively charges lithium batteries. When a lithium battery is nearly empty, we take constant current to charge it. The charger CPU automatically adjusts the charging current to be lower than the maximum charging current that the battery can accept. With constant current charging, the battery's voltage rises slowly until it reaches a maximum voltage; at this point, the charger switches the charging method to "constant voltage" and reduces the charging current.
- When the battery is fully charged, this state is stopped.
- Worldwide power use with voltage input between AC 100 - 240V;
- With advanced MCU Micro-Computer Chip fully controls the charging process of the Li-Ion Battery pack.
- 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
 - Over current protection
 - Short circuit protection & Charging time protection
- Specially designed for use on all Hedbox Li-Ion Battery Packs.
- Dual charging technology, the CC and CV, provides high battery charging efficiency.
- Pre-charging function 0V activation efficiently extends battery life.
- Advanced microcomputer control detects switch voltage and capacity.

Operation instruction:

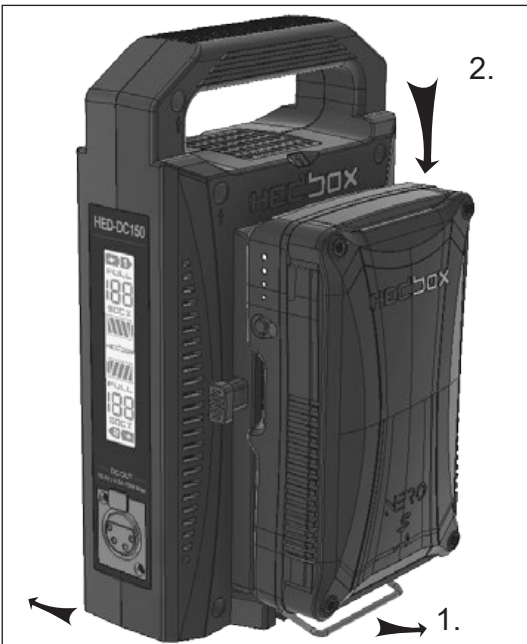
1. Plug the supplied power cord on the main AC power outlet (picture B).
2. Plug the other side of the supplied power cord to the charger AC Power (picture C).
3. The charger will turn ON automatically.
4. The indicational LED light will illuminate green, and the charger is operationally ready.

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 Illumination)
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 installation 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
FULL	Batt. Full	When icon is ON battery is fully charged
	Battery Capacity	Displays the current battery capacity in percentage (%)
SOC %	Charge	State Of Charge capacity LOGO
	battery charging progress	Displays the battery charging progress and battery capacity for channel 1
HECBOX	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
FULL	Batt. Full	Icon is ON the battery is fully charged
	Battery Capacity	Displays the current battery capacity in percentage (%)
SOC %	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.



Security QR Holo Serial Number Label



Multy level High Security QR Hologram product authentication Label

- The product is marked with the Security QR Holo serial number label on the bottom of the battery.
- The QR Holo Label serves as the primary means for confirming the product's authenticity and originality.
- The label incorporates multi-layer high-definition protection including 365 Nm mark.
- It features a distinctive security holographic protection.
- The product has a unique serialization linked to the global Hedbox database.
- Durable, robust, self-adhesive label material; kindly refrain from attempting to peel off the label.

NOTE:

Attempting to remove the security label will cause it to self-destruct, resulting in the forfeiture of the product warranty in this particular case.

Product registration and verification

To verify your product and proceed with registration, please follow the next steps

- Go and visit the verification section on the Hedbox web page at www.hedbox.com/verification.
- Follow the verification procedure



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

No reimbursement for the recorded content.

- Compensation for the recording content is not feasible in the event of a malfunction in the battery pack on other devices, preventing shooting or reproduction.
- Please note that design and specifications may change without prior notice.

If you want to know more about HEDBOX Products
please visit our website: **www.hedbox.com**

www.hedbox.com

DISCLAIMER

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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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HECBOX

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HED-BPU



NINA



NERO Series



BATTERY CHARGERS



RP-VB078



HED-A60



RP-BP975



RP-LPE6H



UNIX



HOLD II



4CH CHARGER