

Dual LCD Battery Charger



RP-DC50



HECBOX

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;

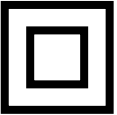
Product Conformity Regulations



• 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 must not be disposed of as household waste.



• This symbol is intended to alert the user that the product is in safety class II: the product is double insulated and does not require a safety connection to electrical earth.



• This symbol is intended to alert the user that the product is intended 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 the 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.

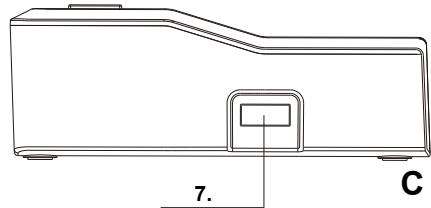
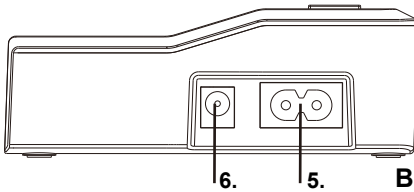
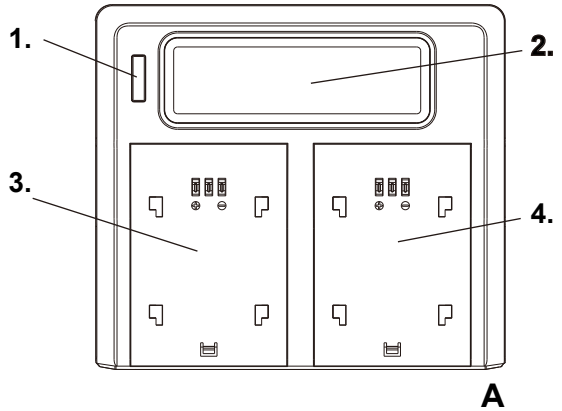
Operation instruction:

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 LCD light will illuminate, and the charger is operationally ready.

Overview

Product Components:

1. Boost Power switch (Boost code)
2. LCD Screen Monitor (Blue Backlight)
3. Charging Slot #1
4. Charging Slot #2
5. AC Power (100V ~ 240V - 50 / 60Hz)
6. DC 12V / 24V Power Input Socket
7. USB-A Power Out 5V ~ 2A /10W



In Car Use

- With a 12V - 24V DC power source (a DC 12V Car charger cable supplied) you can use the charger and charge your batteries in the Car, Airplane, Bus, or any other place where 12V-24V DC power is supplied.

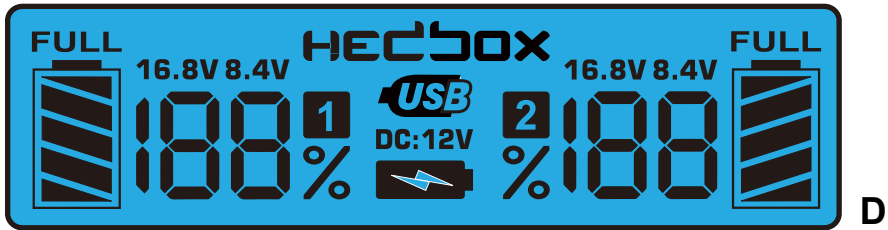
NOTE:

- When using Battery Charger Plate RP-DBPU or (charging HED-BP75D or HED-BP95D) or RP-BPA60 (charging HED-A60) or any other 14.4V battery you need to power RP-DC50 with 24V DC Power Supply.



Operation

1. Plug the supplied power cord into the Main AC power outlet.
2. Plug the other side of the supplied power cord to the charger AC Power (picture B).
3. Charger RP-DC50 turns ON automatically.
4. The LCD screen will illuminate blue, and the HEDBOX logo will turn on (picture D).
5. Use the exchangeable battery charger plate (purchase it separately) and gently put /slide in one of the charging sockets.
6. Use the appropriate battery that you want to charge and put it on the battery charger plate.
7. The charging process starts with a full display of the charging process and battery capacity.



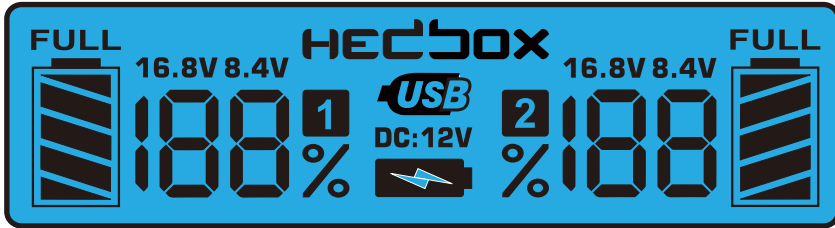
After installing the battery pack onto the charging socket, the RP-DC50 measures the internal battery cell resistance and starts pre-charging.




- Please check that the DV Battery pack is compatible with RP-DC50 power voltage and current.
- Be sure that the battery charger plate firmly locks the battery in place.
- Observe the Charger LCD Monitor.
- If the battery is attached appropriately, it will illuminate the battery channel and current capacity.
- Please use the manual instructions of the battery pack that you want to charge.
- Read that manual carefully before using the battery with this RP-DC50 Battery Charger.
- We are not responsible for any damage caused by incorrect use or operation.

BOOST Button

- Dual Digital LCD Battery Charger RP-DC50 has two charging modes: **NORMAL** and **BOOST**.
- When you turn ON the charger, the default charging mode is **NORMAL**.
- If you want to charge two (2) batteries simultaneously in a normal mode, the charger will provide a charging power of 500mA per one charger slot.
- If you want to speed up the charging process and time, you can activate the **BOOST** mode. Pressing the **RED** button on the top of the charger (On LCD, the boost icon is displayed) will provide 800mA per one battery slot.
- Charging two (2) batteries simultaneously in a fast charging mode (Boost) charger will give a current of 800mA per channel.

LCD Information



Icon	Function Declaration
	<ul style="list-style-type: none"> • When this icon is displayed, high current charging mode is active with a charging current of 1.5A.
8.4V	<ul style="list-style-type: none"> • When it appears, 8.4 V charging mode for DV batteries is in progress
16.8V	<ul style="list-style-type: none"> • When it appears, 16.8 V charging mode for Pro DV batteries is in progress
	<ul style="list-style-type: none"> • When the battery is placed on the charger and charging starts, the battery charging icon will appear, followed by sequentially lit progress indicators.
FULL	<ul style="list-style-type: none"> • It shows that the battery is fully charged and ready.
100%	<ul style="list-style-type: none"> • It shows the battery capacity charging percent rate
	<ul style="list-style-type: none"> • Displays 5V USB power out
DC:12V	<ul style="list-style-type: none"> • Displays that the 12 V DC IN is present (car cable in)
1 2	<ul style="list-style-type: none"> • Shows presence of the battery on the charger/channel

USB

- You can use your Dual Digital Battery Charger RP-DC50 to power USB devices while charging your DV Battery. Plug the USB-A cable of your device to the USB-A port of the RP-DC50 charger. The USB sign on the LCD will pop up. USB is active in both charging modes, the boost and reglar.



USB-A 5V / 2.1A

Exchangeable battery charger plate



- The RP-DC50 digital dual charger can be used for all World brand battery models with easily interchangeable battery plates. This economical option allows you to charge many different batteries, all with one charger and a compatible model of battery charger plate.
- The charger automatically sets the charging voltage and current for the designed battery pack. That leaves no space for charging errors!
- The corresponding battery charger plate that fits the battery you want to charge can be found in the \ link: <https://www.hedbox.com/finder/>

NOTE: The exchangeable battery charger plates need to be purchased separately.

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 Input:	DC 12V - 24V / 55W (Max)
Control Display:	LCD Display
Supplied Power Voltage:	DC 4.2V / 8.4V / 12.6V / 16.8V
Regular Charge Output:	1000mA x1 / 500mA x2
Boost Charge Output:	1500mA x1 / 800mA x2
USB Power Output:	5V / 2100mA / 10W
Battery Charging Type:	Ni-CD , Ni-MH . Li-Ion
Operating Temperature:	-20°C to +45°C (-4°F to +113°F)
Dimensions (WxHxD):	124 x 114 x 445 mm
Neto Weight:	220 g

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**

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.

Hedbox has taken every care to ensure that this User's Manual contains accurate information and has published it on the basis that it is not responsible for the results of any actions taken by users of information contained in it, on the basis of information contained in this manual, nor for any error in or omission from it. Hedbox disclaims any responsibility whatsoever for misrepresentation by any person whatsoever of the information contained in this User's Manual and expressly disclaims all and any liability and responsibility to any person, whether a reader of this User's Manual or not, in respect of claims, losses or damage or any other matter, either direct or consequential arising out of or in relation to the use and reliance, whether wholly or partially, upon any information contained or products referred to in this User's Manual.

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.

TRADEMARK DISCLAIMER

Names, logos, and other trademarks mentioned or used are the property of their respective owners and are used here for identification purposes only. These trademark owners are not affiliated with Hedbox, and they do not endorse or sponsor Hedbox or its products or services.

Any use of third-party trademarks mentioned on this User's Manual is intended to refer to the products or services of their respective owners and is not intended to imply any connection between Hedbox and these trademark owners.

Note:

Always ensure that the unit is operating properly before use.

HEdBOX 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



HECbox

We Power Your Bussines



HED-BPU



NINA



NERO Series



BATTERY CHARGERS



RP-VP978



HED-A60



RP-VP975



UNIX



RP-LP65H



HOLD II



4CH CHARGER