



POWER PACK  
USER'S MANUAL



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## 1. Getting Started

Thank you for purchasing DitoGear™ Power Pack. We hope the battery will meet your expectations helping you in your film work.

This manual includes hardware instructions for DitoGear™ Power Pack. The device may be used to power one or more of DitoGear™ motion control devices as well as a vast range of 3rd party products and accessories via 12V DC power output - Mini Jack Socket 5.5×2.1.

Power Pack may be also used for charging phones and tablets via 5V USB power output.

Please ensure to carefully read the safety instructions and precautions contained in this manual prior to the first use of the device.

Should you need any assistance or support do not hesitate to contact us at [support@ditogear.com](mailto:support@ditogear.com)

Latest product manuals can always be found at:  
[www.ditogear.com/user-manuals](http://www.ditogear.com/user-manuals)

## 2. Getting to Know DitoGear™ Power Pack

### 2.1 At a Glance

DitoGear™ Power Pack is a power supply for DitoGear™ devices and 3rd party equipment capable of delivering 5A and 2A current and output voltages 5V and 12V.

### 2.2 Features

#### Input

- 12V DC power input

#### Outputs

- 12V DC power output - Mini Jack Socket 5.5×2.1
- 5V USB power output

### 2.3 Weather Resistance Notes

The DitoGear™ Power Pack electronics is protected by a sealed aluminium housing. It is weather resistant therefore it can work under standard conditions including high humidity, light rain or light snow and low temperatures. However, it is not fully water resistant and should not be used under extreme conditions.

## 3. Using the Device for the First Time

- 1 Unpack DitoGear™ Power Pack and remove protective caps and bubble wraps. Be careful not to use any sharp device in order not to scratch the surface of the equipment.
- 2 Charge the battery as described below.
- 3 After charging is complete you may start using the device ([see connection diagram](#)).

## 4. Charging

- 1 Full charging time of the kit battery:
  - Power Pack 7Ah - up to 5h
  - Power Pack 14Ah - up to 10h
- 2 To charge the battery connect the AC/DC power adapter to the battery charger (DC IN).
- 3 The battery is fully charged when LED turns green.

**Caution!** Only 12V AC/DC power adapters are suitable for charging the Power Pack.

## 5. Conservation Guidelines

While not in use keep the battery and cabling unplugged. Remember to put protective caps on Power Pack contacts.

DitoGear™ Power Pack should be stored in a dry place, at ambient temperature around 10 - 25°C.

Caution! Leaving the battery connected to power cables can cause a fire.

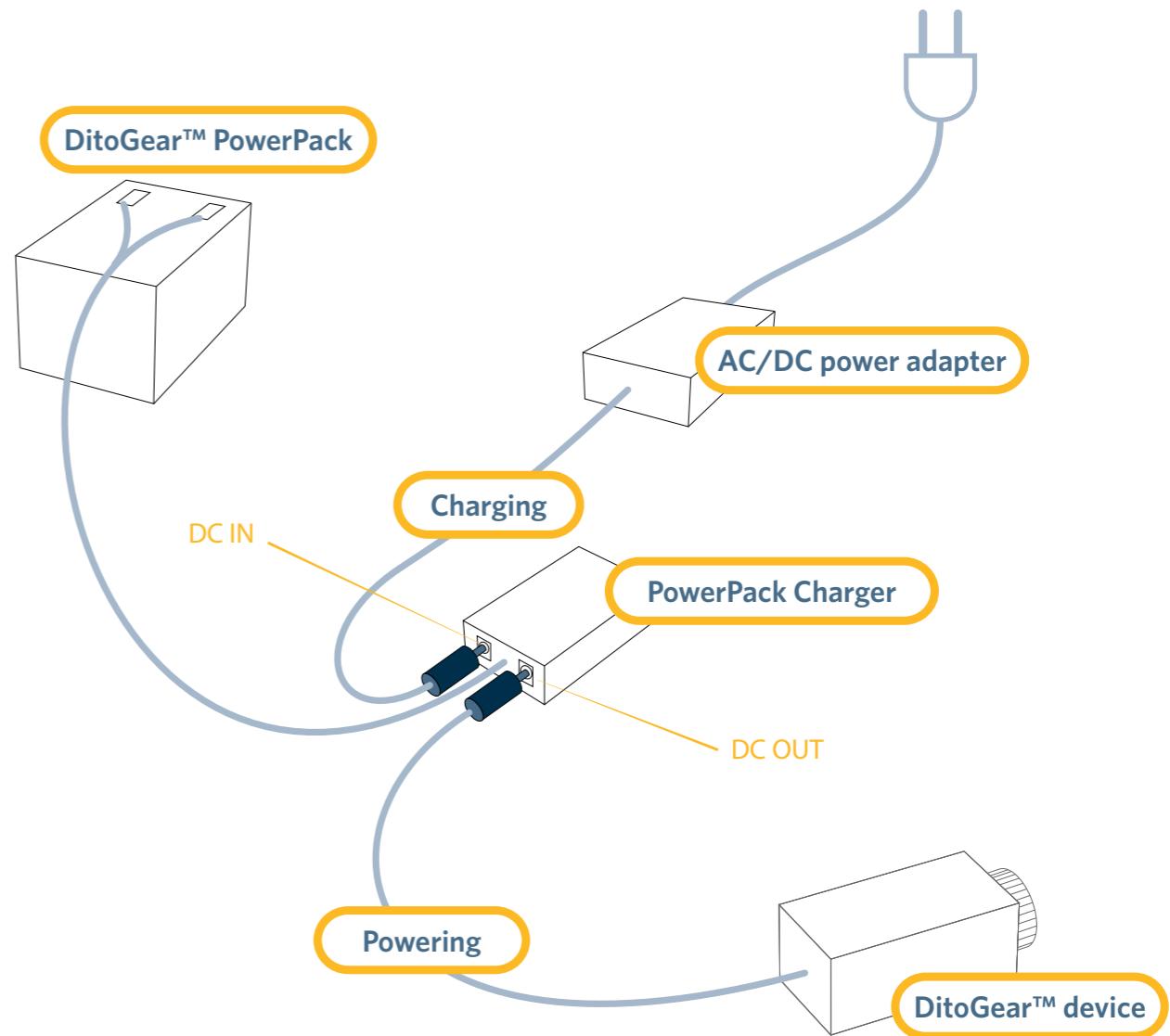
## 6. The kit Contents

- 12V gel type lead acid battery (7Ah or 14Ah)
- Battery charger (Ports: DC IN, DC OUT, USB)
- Power cable (2 x Male Jack 5.5x2.1)
- AC/DC 12V Power Adapter
- Padded soft case

## 7. Technical Specifications Table

Battery Type	12V/14Ah Gel Type Lead Acid Battery	12V/7Ah Gel Type Lead Acid Battery
Max Current Draw	5A	5A
Min Current Draw	2A	2A
Unit Dimensions	15x10x10 cm	15x6.5x10 cm
SoftCase	20x11.5x12 cm	20x9x12 cm
Total Weight	4.4 kg (9.7 lbs)	2.75 kg (6.1 lbs)
Max Charging Time	10h	5h
Operation Temperature Range	-20°C to 50°C	-20°C to 50°C

## 8. Connection Diagram



## 9. Using 3rd Party Power Adapters

DitoGear recommends using original DitoGear™ AC/DC power adapters and batteries.

While using a 3rd party adapter make sure it meets the requirements detailed in technical specifications table.

### **Caution!**

DitoGear is not responsible for any damage or failures caused by the use of a 3rd party power supply adapter.

## 10. Precautions for Safe Use of DitoGear™ Power Cables

Power cables cannot be looped during operation due to insufficient heat rejection that can cause melting of the cable insulation and ultimately its failure. Remember to disconnect all power cables after use, especially during transportation.

## 11. Using DitoGear™ Power Packs

DitoGear™ Power Pack 7Ah/14Ah and DitoGear™ PowerBox include gel type lead acid batteries, that have a low voltage operating limit. When you discharge the battery below that limit, the irreversible chemical processes occur and the recharging performance can be affected. It is recommended not to fully discharge the battery.

The lead acid battery will self-discharge slowly over time. Leaving the battery for more than 3 months without recharging may result in damage. Remember to recharge the battery at least every 3 months.

## 12. Obtaining Support

In case of any technical issues that can't be solved by carefully reading the manuals do not hesitate to contact us at [support@ditogear.com](mailto:support@ditogear.com)

## 13. Limited Warranty

DitoGear One (1) Year Limited Warranty

For DitoGear Products Only

### Consumer rights and restrictions.

For consumers, who are covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by this warranty are in addition to all rights and remedies conveyed by such consumer protection laws and regulations. This warranty does not exclude, limit or suspend any rights of consumers arising out of non-conformity with a sales contract. However, as described below, DitoGear disclaims statutory and implied warranties to the extent permitted by law, and in so far as such warranties cannot be disclaimed, all such warranties shall to the extent permitted by law be limited in duration to the duration of the express warranty described below and to the repair or replacement service as determined by DitoGear in its sole discretion. Some states (countries and provinces) do not allow limitations on how long an implied warranty or condition may last, so the limitations described above may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state (or by country or province). This limited warranty is governed by and construed under the laws of the country in which the product purchase took place. DitoGear, the warrantor, under this limited warranty stands for DitoGear™ Robert Paluch, ul.Krańcowa 30, 62-002 Suchy Las, Poland.

### Warranty.

DitoGear's warranty obligations for this hardware product are limited to the terms set forth herein. DitoGear warrants this DitoGear-branded hardware product against defects in materials and workmanship under normal use for a period of one (1) year from the date of retail purchase by the original end-user purchaser ("Warranty Period"). If a hardware defect arises and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, DitoGear will either (1) repair the hardware defect at no charge, using new or refurbished parts that are equivalent to new in performance and reliability, (2) exchange the product with a product that is new or refurbished that is equivalent to new in performance and reliability and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. DitoGear may request that you replace defective parts with user-installable new or refurbished parts that DitoGear provides in fulfillment of its warranty obligation.

A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by DitoGear, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you.

When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes DitoGear's property. Parts provided by DitoGear in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to DitoGear and becomes DitoGear's property.

#### Exclusions and limitations.

To the extent permitted by law, this warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral, written, statutory, express or implied. As permitted by applicable law, DitoGear specifically disclaims any and all statutory or implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose and warranties against hidden or latent defects. If DitoGear cannot lawfully disclaim statutory or implied warranties then to the extent permitted by law, all such warranties shall be limited in duration to the duration of the express warranty and to the repair or replacement service as determined by DitoGear in its sole discretion. Some states (countries and provinces) do not allow limitations on how long an implied warranty or condition may last, so the limitations described above may not apply to you. No DitoGear reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

This Limited Warranty applies only to hardware products manufactured by or for DitoGear. The Limited Warranty does not apply to any non-DitoGear hardware products even if packaged or sold with DitoGear hardware. Manufacturers or suppliers, other than DitoGear, may provide their own warranties to the end user purchaser, but DitoGear, in so far as permitted by law, provides their products "as is".

DitoGear does not warrant that the operation of the product will be uninterrupted or error-free. DitoGear is not responsible for damage arising from failure to follow instructions relating to the product's use.

This warranty does not apply: (a) to consumable parts, such as batteries, unless damage has occurred due to a defect in materials or workmanship; (b) to cosmetic damage, including but not limited to scratches, dents and broken elements on ports; (c) to damage caused by use with non-DitoGear products; (d) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external causes; (e) to damage caused by operating the product outside the permitted or intended uses described by DitoGear; (f) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of DitoGear; (g) to a product or part that has been modified to alter functionality or capability without the written permission of DitoGear; (h) to defects caused by normal wear and tear or otherwise due to the normal aging of the product.

Except as provided in this warranty and to the extent permitted by law, DitoGear is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to loss of use; loss of revenue; loss of actual or anticipated profits (including loss of profits on contracts); loss of the use of money; loss of anticipated savings; loss of business; loss of Opportunity; loss of goodwill; loss of reputation; loss of, damage to or any indirect or consequential loss or damage howsoever caused including the replacement of equipment and property. The foregoing limitation shall not apply to death or personal injury claims, or any statutory liability for intentional and gross negligent acts and/or omissions. Some states (countries and provinces) do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

#### Obtaining warranty service.

DitoGear will provide warranty service either (i) at an DitoGear Retail or DitoGear Authorized Service Provider ("ASP") location, where service is performed at the location, or the DitoGear Retail or ASP may send the product to an DitoGear repair service location for service, (ii) by sending you prepaid way bills (and if you no longer have the original packaging, DitoGear may send you packaging material) to enable you to ship the product to DitoGear's repair service location for service, or (iii) by sending you customer installable new or refurbished replacement product or parts to enable you to service or exchange your own product ("DIY Service"). Upon receipt of the replacement product or part, the original product or part becomes the property of DitoGear and you agree to follow instructions, including, if required, arranging the return of original product or part to DitoGear in a timely manner. When providing DIY Service requiring the return of the original product or part, DitoGear may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow instructions, DitoGear will cancel the credit card authorization, so you will not be charged for the product or part and shipping costs.

If you fail to return the replaced product or part as instructed or the replaced product or part is not eligible for warranty service, DitoGear will charge the credit card for the authorized amount.

Please access and review the online help resources at the DitoGear website ([www.ditogear.com](http://www.ditogear.com)) and contained in the product manual before requesting warranty service. If the product is still not functioning properly after making use of these resources, please contact DitoGear at [support@ditogear.com](mailto:support@ditogear.com).

Service options, parts availability and response times may vary according to the country in which service is requested. Service options are subject to change at any time. You may be responsible for shipping and handling charges if the product cannot be serviced in the country in which service is requested. If you seek service in a country that is not the country of purchase, you will comply with all applicable import and export laws and regulations and be responsible for all custom duties, VAT. and other associated taxes and charges. For international service, DitoGear may repair or exchange defective products and parts with comparable products and parts that comply with local standards. In accordance with applicable law, DitoGear may require that you furnish proof of purchase details before receiving warranty service.

## 14. Privacy

DitoGear will maintain and use customer information in accordance with the DitoGear Customer Privacy Policy available at [ditogear.com/legal/privacy-policy/](http://ditogear.com/legal/privacy-policy/).

## 15. Miscellaneous

### Trademarks and copyrights

DitoGear™, DitoGear™ OmniController, DitoGear™ Evolution, DitoGear™ Trito, DitoGear™ OmniSlider, DitoGear™ OmniHead and DitoGear™ LensDrive, DitoGear™ Modulo are trademarks of Dito Gear Robert Paluch ul.Krańcowa 30, 62-002 Suchy Las, Poland. Unauthorised use is strictly prohibited. All other trademarks referenced in this manual are used only for informative purposes and are property of their respective owners.

### Disposal and recycling information

The device and all batteries included with it must be disposed of properly according to local laws and regulations. The product must be disposed of separately from the household waste. When your product reaches its end of life, contact DitoGear or your local authorities to learn about recycling options.





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