

Digital Helm User Manual



Model: Digital Helm

2024.01 Version 1.3

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Acknowledgement

Thanks for choosing ePropulsion products, your trust and support in our company are sincerely appreciated. We are dedicated to providing high-performance electric outboards, electric outboards, sup/kayak motors, reliable lithium batteries and accessories.

Welcome to visit www.epropulsion.com and contact us if you have any concerns.

Using This Manual

Before use of the product, please read this user manual thoroughly to understand the correct and safe operations. By using this product, you hereby agree that you have fully read and understood all contents of this manual. ePropulsion accepts no liability for any damage or injury caused by operations that contradict this manual.

Due to ongoing optimization of our products, ePropulsion reserves the rights of constantly adjusting the contents described in the manual. ePropulsion also reserves the intellectual property rights and industrial property rights including copyrights, patents, logos and designs, etc.

This manual is subject to update without prior notice, please visit our website www.epropulsion.com for the latest version. If you find any discrepancy between your products and this manual, or should you have any doubts concerning the product or the manual, please visit www.epropulsion.com.

ePropulsion reserves the rights of final interpretation of this manual.

This manual is multilingual, in case of any discrepancy in the interpretation of different language versions, the English version shall prevail.

Symbols

The following symbols will help to acquire some key information.



Important instructions or warnings



Useful information or tips

Operation is subject to the following three conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

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 instructions, 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.

Correct Disposal of this product:



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Product Identification ---

The picture below indicates the serial numbers of Digital Helm. Please note the position of the serial numbers and record them for access to warranty service and other after-sale services.

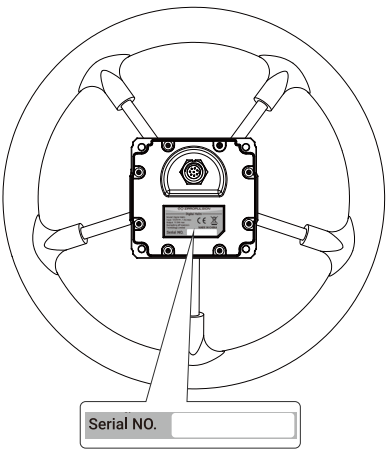


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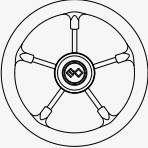
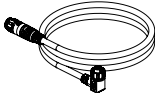






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1 Product Overview

ePropulsion Digital Helm is connected to the motor system by wire, which is used to control the X series outboard motor steering. Digital Helm has functions such as adjustable number of steering turns, left and right limit positions, auto angle match with power steering, OTA, etc.

1.1 In the Package

Items	Qty./Unit	Figure
Steering base	1 piece	
Steering wheel	1 piece	
Communication cable	1 piece	
User manual, mount template	1 set	
Screws	4 pieces	
locknuts	4 pieces	
washer	4 pieces	
M16 Lock Nut	1 pieces	
Semicircular key	1 pieces	

1.2 Specifications

Weight	1.5kg (base) 1.6kg (steering wheel)
Communication	Wired
Communication distance	≤15m
Dimensions	110 X 102 X 185mm(base) Ø325 X 70mm (steering wheel)
Rated Voltage	12.0Vdc
Max. Current	1.0A

- Other accessories are not included in the package. Users can buy official accessories provided by ePropulsion from ePropulsion authorized dealers.
- Save ePropulsion original package for transport and storage.

1.3 Important Notes



Only adults who have fully read and understood this manual are allowed to operate this product.



Check the function of the Digital Helm before use.



Make sure the Digital Helm is properly installed before use.

1.4 Declaration of Conformity

Object of the Declaration:



Product: Digital Helm

Model: The object of the declaration is in conformity with the following directives:

Electromagnetic Compatibility (EMC) Directive 2014/30/EU

Applied Standards:

EN 61000-6-2:2005

EN 61000-6-3:2007+AL:2011

EC REP

Name: REP Europe GmbH


Address: Werner-von-Siemens-Str. 264319 Pfungstadt Germany

Phone: +49 157 51253212
info@rep-europe.de

Manufacturer

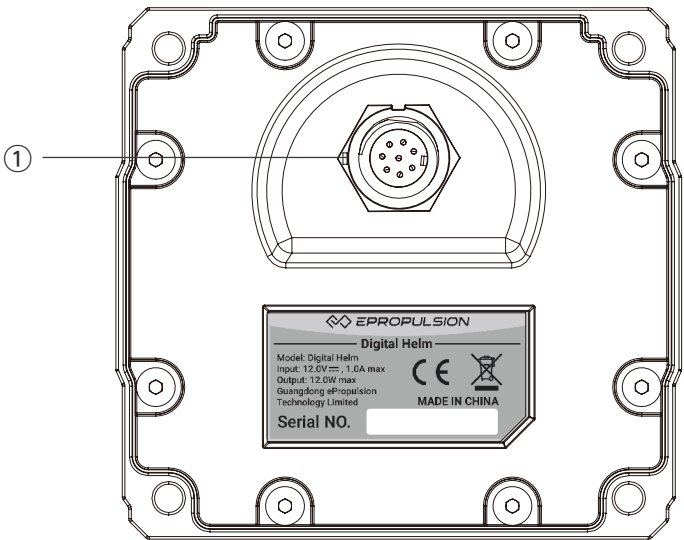
Name: Guangdong ePropulsion Technology Limited

Address: Room 801, Building 1, 11 Daxue Road, Songshan Lake, Dongguan, Guangdong
Province, China

Signature:  **Date:** 26th of May, 2023
Shizheng Tao, Chief Executive Officer & Cofounder of
Guangdong ePropulsion Technology Limited

2 Connection

① 8-pin connector is the communication cable connector, which is connected with the motor.

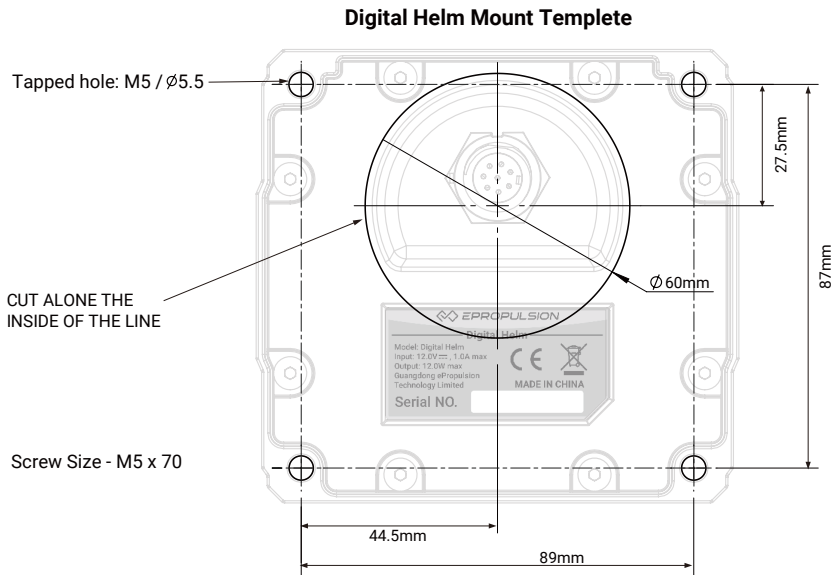


3 Mounting

Before mounting the Digital Helm, it is recommended to connect the entire equipment first, make sure it works well, and whether the communication cable is properly connected.

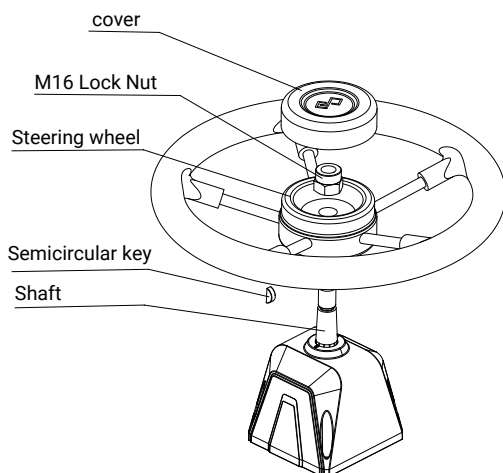
3.1 Steering base mounting

- 1. Reserve the position of the steering base in the console of the boat, find the position of the four fixed bolts with the help of the mount template and drill M5 threaded holes or $\Phi 5.5$ hole.
- 2. Align the steering base with the four holes, paying attention to the installation direction. Tighten the bolts after installing the steering base.



3.2 Steering wheel mounting

1. Firstly, place the semicircle key on the shaft. Then install the steering wheel base through the shaft. Finally, fasten the M16 locknut to the shaft with a torque of 16N.m to 18N.m.
2. Close the logo cover on the steering wheel. Pay attention to the direction of the logo.



4 Function Description



Please read the user manual of the motor.

5 Warranty

Guangdong ePropulsion Technology Co., Ltd. ("ePropulsion"), China, warrants its products to be free of defects in material and workmanship under normal usage with proper installation and routine maintenance for a period of twenty-four (24) months from date of delivery of products to end customers (the "Limited Warranty Period"). The Limited Warranty is provided to the first end customer of ePropulsion products ONLY. The Customer is entitled to free repair or replacement of defective or non-conform parts. Any warranty claim must be made within six (6) months of discovery of issues as provided below.

If the Limited Warranty Period expires, you can still enjoy maintenance services from dealers/distributors authorized by ePropulsion (the "ePropulsion Service Partners") with minimum maintenance charge per occurrence.

In all warranty cases, ePropulsion will only bear the repair cost and other costs (such as those related to product installation, disassemble, transportation, financing, rental, etc.) as a direct result for issues covered by the Limited Warranty only. Any costs irrelevant to or out of the scope of the Limited Warranty will be born by the Customer alone., which shall NOT include costs irrelevant such as those related to product installation, disassemble, transportation, financing, rental, etc.

Beyond the Limited Warranty, the Customer may have statutory rights in your jurisdiction according to applicable laws. Nothing in this Limited Warranty affects such rights. The Customer may have warranty claim rights arising from the purchase contract with ePropulsion Service Partners in addition to the rights granted by this Limited Warranty.

Products for commercial/professional use, even if only temporarily, are not covered by the Limited Warranty. Instead, the statutory warranty in your jurisdiction shall apply. You are encouraged to consult with ePropulsion Service Partners for applicable warranty and advice before engaging in such use.

*** Commercial/professional Use refers to application cases that have high use frequency, high-reliability requirement or aim for money making, etc.**

To keep your warranty valid, you shall follow:



Keep the product label intact and record the Serial Number shown on the label. Never tear the label off the product. A product without the original product label is not covered by the Limited Warranty provided by ePropulsion;



The Limited Warranty is not transferable and will not be reissued;



The Limited Warranty may change from time to time. Pls visit our website (<http://www.epropulsion.com>) for the latest version.

5.1 Out of Warranty

ePropulsion may refuse a warranty claim if:

- Any improper operation contradicts what is written in the user manual;
- Accident, misuse, dropping, improper care or storage, willful abuse, physical damage, overcharging, over discharging, or unauthorized repair;
- Water ingress caused by external sources such as fishing nets, submerging underwater, etc;
- Product modification, alternation, disassembly, or parts/accessories attachment, which are not expressly permitted or recommended by ePropulsion;
- Failure of, or damage caused by, any 3rd party products;
- Consumables are out of warranty scope (like propeller, anode...etc.);
- Purchases of product from unauthorized dealers or seller;
- Normal wear and tear and routine servicing are excluded from the warranty;
- The product gets further damaged due to improper packing during delivery. The further damaged part will be deemed as out of warranty coverage;
- Lithium battery is classified as a UN9 hazardous item, posting and packing must be in accordance with the relevant law of the local country directive. Non-compliance may result in out of warranty coverage.

5.2 Limited Warranty Claim Procedures

The Customer shall follow the warranty claim process to make a Limited Warranty claim:

1. Contact your nearest ePropulsion Service Partners and they will provide further instruction to you if such defects are covered by the Limited Warranty or theirs.
2. Send the defective product to them together with Proof of 1(st)-time Purchase (e.g., receipt, invoice, etc., with information of product purchased and date of purchase), the Confirmation of Online Warranty Registration, ex-factory Serial Number, etc. Note that all labels shall be kept intact. The warranty is valid only when the information above is correct, genuine, and complete;
3. Make sure the product is properly packed during delivery, the original package is highly recommended.
4. The ePropulsion Service Partners will conduct diagnosis and examination on the defective products to check the validity of the warranty claim.
5. If your warranty claim is accepted, the Product or its defective components/parts will be either repaired or replaced free of charge. Note that any delivery cost incurred in the process shall be beard by you.
6. In case your warranty claim be rejected, a repair/replace cost and fee with round trip delivery cost will be estimated and sent to you for confirmation. ePropulsion Service Partners will only begin the work after your written confirmation.

WARRANTY CARD || ePropulsion Control System

(*In order to validate warranty, please fill in this form first and read the Warranty Policies.)

|| OWNER INFO. ||

Owner Name			
Address			
Phone		Email	

|| DEALER INFO. ||

Store Name			
Address			
Phone		Email	

|| PRODUCT INFO. ||

Date of Purchase (mm/dd/yyyy)	
Serial No.	

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