

UNDERWATER PROPELLER USER MANUAL



IPX8

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I. Warning and Attention

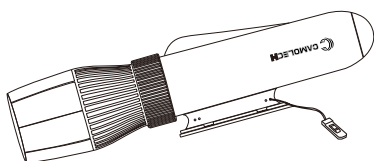


Ignore the instructions in this manual or mishandling the Propeller could cause malfunction, operational problems to damage the device, or personal injury. accepts no liability for any damage caused by actions that contradict this operating manual.

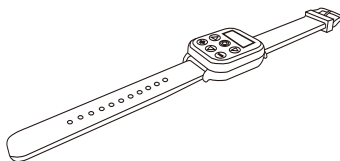
WARNING : For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.

1. Please fully charge the appliance before use . (The charge port is at the top of the Propeller. Turn off the motor when charging).
2. Charging voltage is 25.2V. Do not over voltage charge. Charging the remote control with the USB charge cable .
3. Please use the charger provided by the original factory only.
4. Make sure the motor cover is tightly closed before use ,as water may damage the machine.
5. Keep objects such as hand , hair and clothing away from the Propeller. If something gets stuck in the Propeller, please make sure the Propeller is closed before attempting to move the jammed thing.
6. Do not disassemble the machine without permission to avoid damage.
7. Do not put the appliance into the fire .
8. Do not place the appliance in the environment with high temperature above 60 °C. Do not use the appliance in the water with Max temperature above 35 ° C.
- 9 .This appliance can be used by children aged from 16 years and above and persons with reduced physical , sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision .
- 10 . Do not open machines which contains non-replaceable batteries.
- 11 . The light on the charger will be green when the battery is full.
12. Please charge it for one hour and save it for long time non-use.
13. Do not use the appliance while tired or under the influence of alcohol, drugs or medication. A moment of inattention may result in serious personal injury.
14. Using the appliance during pregnancy is not allowed.
15. Rinse with fresh water after each use ,especially after use in salt water.
- 16 . Always charge the battery on a non-flammable base .

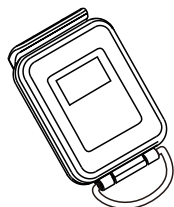
II. Parts of Propeller



Propeller x 1

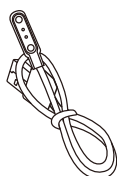


Remote Control x 1

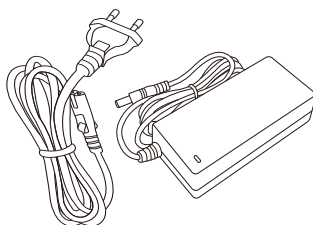


Remote Control

Waterproof Box x 1



USB Charge Cable x 1



Propeller Charge Unit x 1

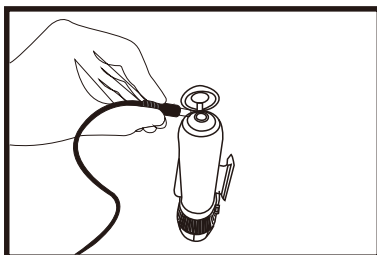
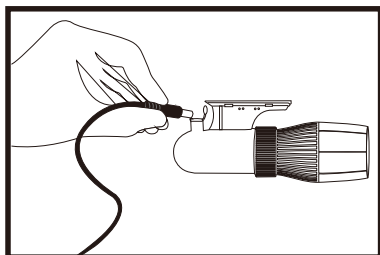
III . Technical Specifications

Propeller motor	DC24V
Propeller battery	Rechargeable lithium ion battery 22.2V
Propeller charger	Input : 100-240V 50 / 60Hz , 15A Max Output : 25.2V DC 2.5A
Remote control battery	250 mAh
Remote control charger	USB 5V
Remote control frequency	868MHz

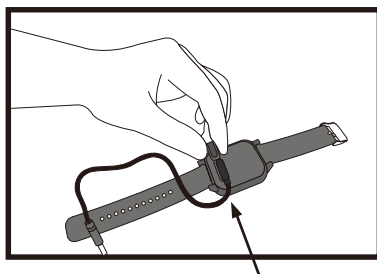
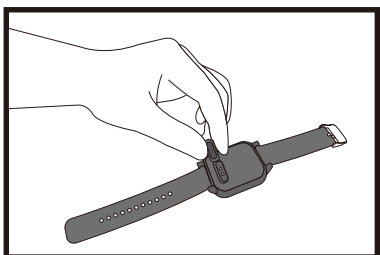
IV. Propeller In Use

1.Preparing the Propeller

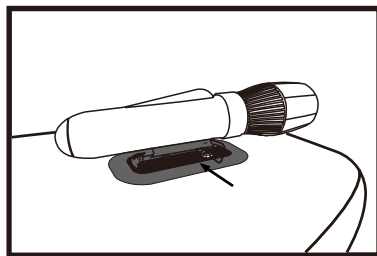
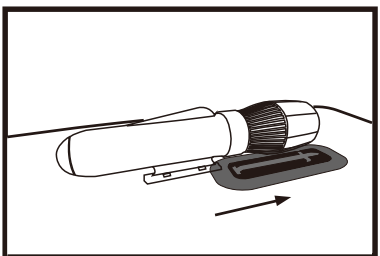
a. Fully charge the Propeller before use



b.Fully charge the remote control for use



c.Install the propeller on a SUP



2.Using the Propeller on your SUP

a. Put the SUP with the Propeller in the water and make sure that you have enough space and that do not hit any obstacles.

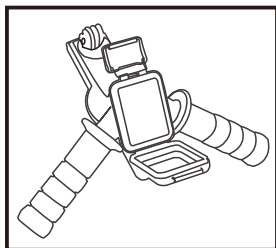
b. Stand or kneel on the SUP and take the remote control .

c. Attach the remote control in case you fall off .d. It's necessary to place the remote control inside the waterproof box/cover and tight it to the machine when swimming.

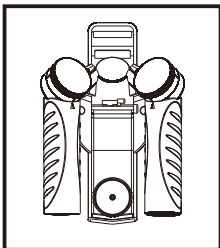
IV. Propeller In Use

3. Install diving handles and use Propeller on other hulls .

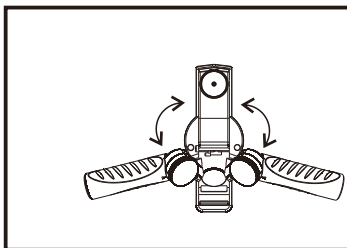
a . When installing the diving handle , it is necessary to install pins in both slots and remove them. The strap of the remote control watch is installed inside the waterproof box of the diving handle , tight the water proof box and check the firmness. Before entering the water, wear a slip rope to prevent pushing the inlet accidentally disengaged in the water.



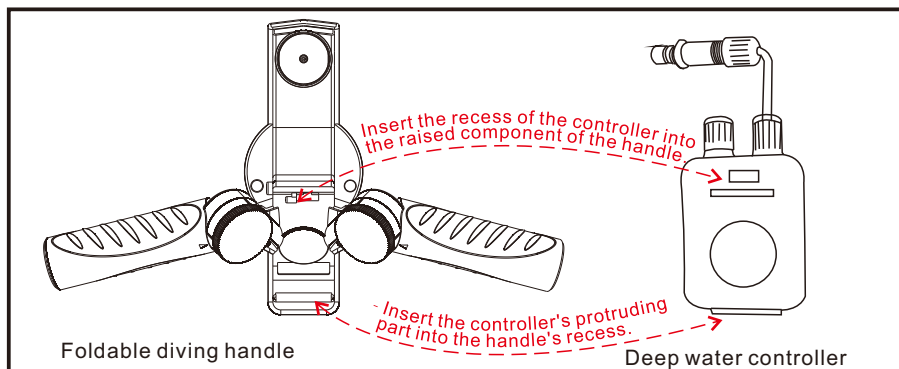
① Option: fixed diving handle



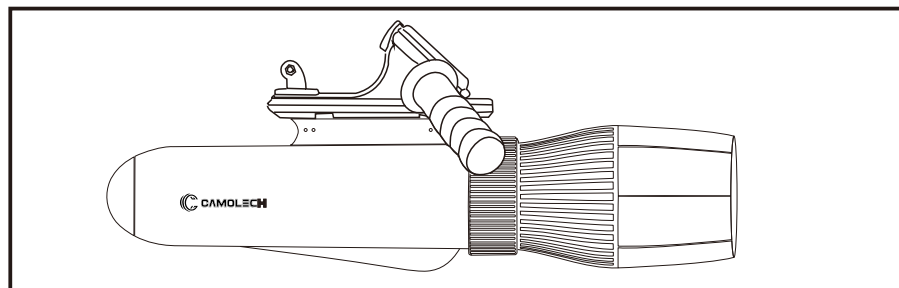
② Option: foldable diving handle



③ Adjust the handle angle according to the marks on the knob

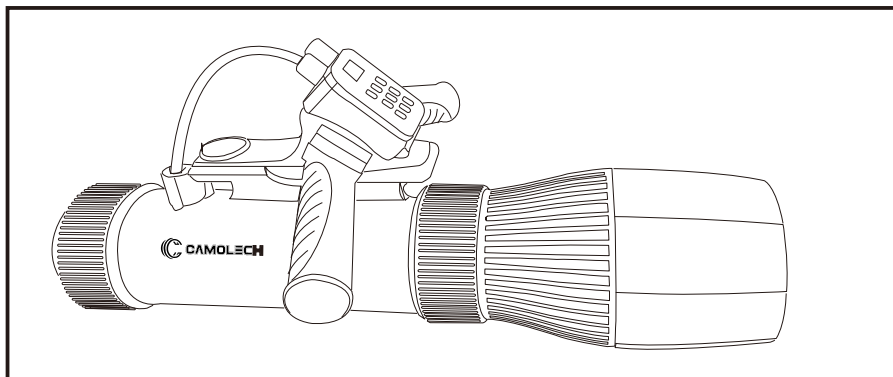


④ Please install the controller on the foldable diving handle in this way.

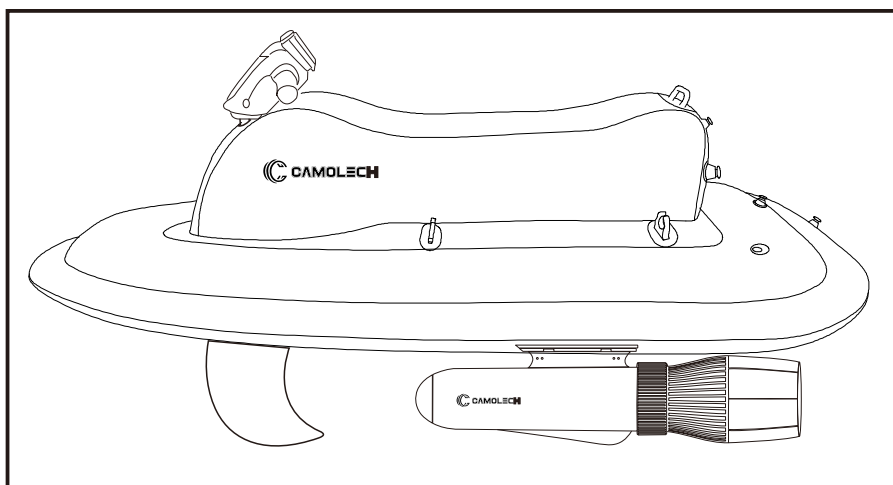


⑤ Connect the diving handle to the propeller host and secure it with a locking pin.

IV . Propeller In Use



- ⑥ Connect the diving handle with the thruster main unit, and fix it with the locking pin; closely combine the data cable terminals on the deep water controller with the data cable terminals on the main unit and tighten the nut; the deep water controller is closely combined with the folding dive handle.

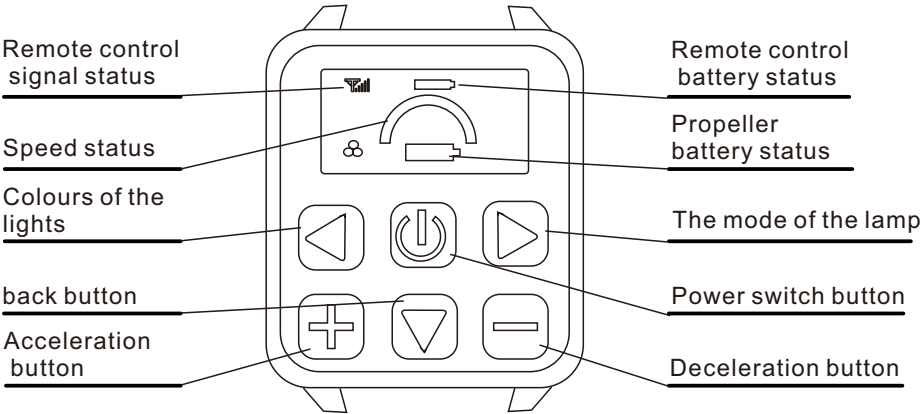


- ⑦ When installing it on an inflatable motorboat , the faucet of the motorboat must be firmly installed , the screws must be tightened , the water diverter must be firmly installed , the Propeller must be firmly installed , and a Propeller must be provided (for use when the Propeller loses power) .Also wear a life jacket .

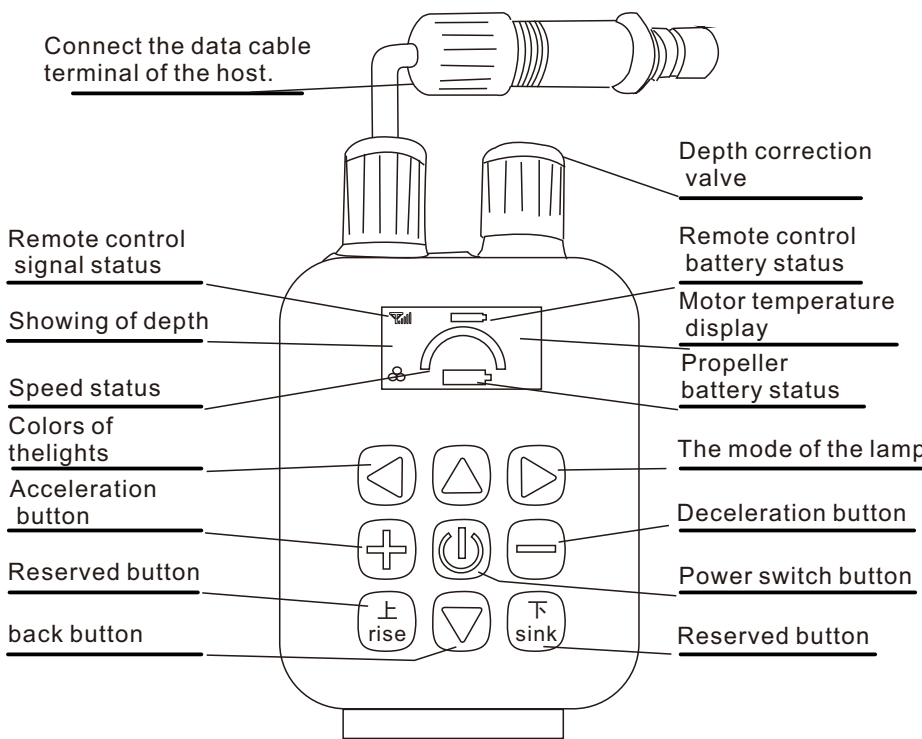
b. When using Propeller on other hulls or equipment , it is important to ensure that the Propeller slot device can only be used after being firmly installed to ensure that the Propeller will not detachbel .

V. Remote Control

Status Display and Operating Instructions



Schematic Diagram of The Watch-Style Controller



Schematic of The Deep Water Controller

V. Remote Control

Status display and operating instructions

The signal for pairing the watch-style remote controller with the host:

You need to plug and unplug the DC charging plug twice while the host is in charging mode. After hearing the beep from the host, press any key on the remote control to complete the pairing. If unsuccessful, repeat the above steps. If you purchased the Pro version, you can pay attention to the signal light of the thruster. Plug and unplug the charging head twice in a row. Once the signal light flashes red and blue alternately, press any key on the remote control to complete the pairing. About the deep water controller: No pairing is required, just connect the end of the remote control data cable tightly with the end of the host data cable and tighten the nut (pay attention to waterproofing). Before each dive, you need to press the depth correction button to reset the last used data to zero.

Remote Control Signal Status: After successful pairing, the signal tower icon will be displayed on the remote control screen, indicating that the remote control has established a signal connection with the host. If the remote control loses signal connection with the host, the remote control screen will display an "x" icon. If the signal connection is lost while the host is running and continues for 1 minute, the host will automatically shut down.

Power switch button: In the case of successful pairing, double-click the power switch button on the remote control to turn on the host. The host is defaulted to the forward state, and the default speed ratio is low speed (2 gears). Please pay attention to the display information on the remote control screen to confirm the status of the host. If it is necessary to turn off the host, please double-click the power switch button again. Important note: When the host is in the charging mode, the battery is in the protected state, and the Propeller cannot be started.

Propeller Host Battery Status: Before each use, please ensure that the host battery is fully charged. During use, please frequently check the battery level displayed on the remote control screen and reserve enough power to ensure a safe return.

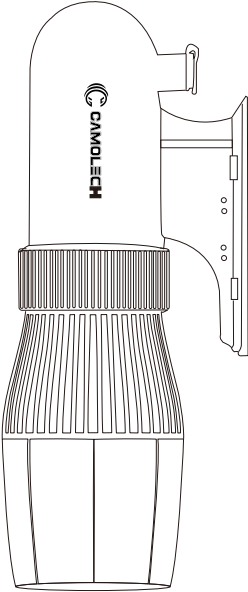
Speed Ratio Status: When the host is turned on, the default speed ratio is 20% low speed, with a minimum speed of 10% and a maximum speed of 100% full speed. If the host suddenly shuts down while running at full speed, it may be due to overcurrent protection or overtemperature protection being triggered. You can try restarting the host or wait a moment before starting it again, and the problem may be resolved.

The use of signal lights: If you purchase a thruster with signal lights, you can use the button "◀" on the controller to regulate the color of the light, and the signal lights have multiple colors; "▶" it is to regulate the mode of the signal lights, such as the distress mode, the breathing mode, the gradient mode, and turning off the light, etc.

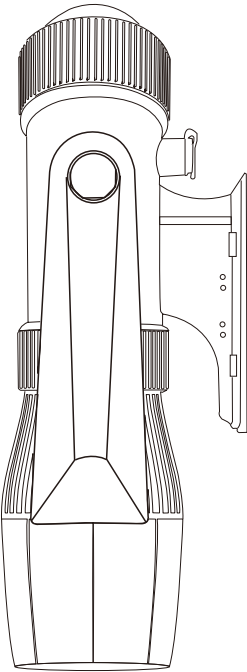
VI. After Using Propeller

- 1. Flush the Propeller to prevent corrosive water from damaging the Propeller.
- 2. Try to put it in a dark place to dry, and do not expose it to the sun to prevent damage to the battery.
- 3. Store in a dark place after cooling and drying for reuse next time. If it is not used for a long time, please charge the remote control and the host and store them again (the chip will consume the reserved power and cause the remote control to crash).

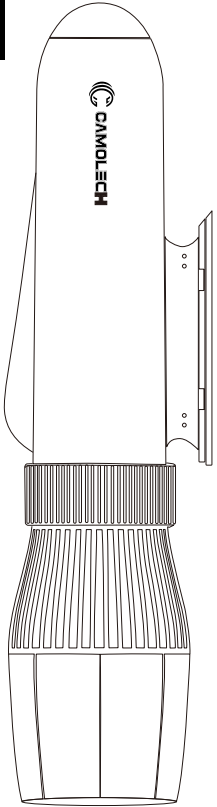
VII. Propeller Model Parameters



Propeller model	CM5-1
Model	Brushless motor 6050
Battery level	97.68Wh (4400mAh)
Endurance	60-15 Min's
Speed range	3-7KM/H

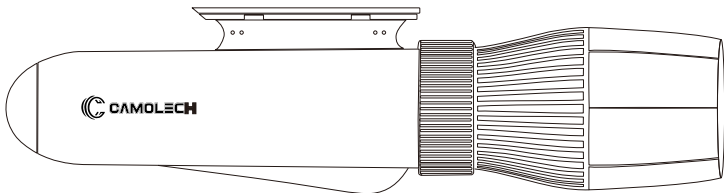


Propeller model	CM5-1 Pro (Detachable battery)
Model	Brushless motor 6050
Battery level	97.68Wh (4400mAh)
Endurance	60-15 Min's
Speed range	3-7KM/H



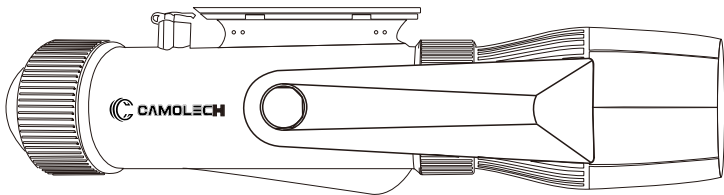
Propeller model	CM5-2
Model	Brushless motor 6050
Battery level	222Wh (10000mAh)
Endurance	130-40 Min's
Speed range	3-7KM/H

VII. Propeller Model Parameters



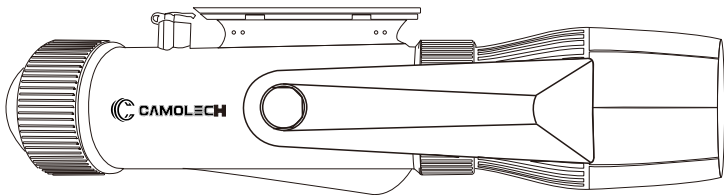
High speed diving specialized type

Propeller model	CM7-1
Model	Brushless motor 6070
Battery level	355.2Wh (16000mAh)
Endurance	160-35 Min's
Speed range	3-9KM/H



High speed diving specialized type

Propeller model	CM7-1 Pro (Detachable battery)
Model	Brushless motor 6070
Battery level	355.2Wh (16000mAh)
Endurance	160-35 Min's
Speed range	3-9KM/H



High speed motorboat special type

Propeller model	CM9-1 (Detachable battery)
Model	Brushless motor 6090
Battery level	355.2Wh (16000mAh)
Endurance	160-25 Min's
Speed range	3-11KM/H

VIII. Method Of Replacing Propeller Batteries

Tip: If you have purchased a propeller **with a detachable battery**, then replace the battery as follows. But if you purchased a regular model propeller, then that would not be able to replace the batteries. Just charge the propeller directly with the charger.



Step 1: Unscrew the top cover of the propeller and find the connector as shown in the picture.



Step 2: After disassembling the two ends of the connector, pull the battery out by pulling up on the ring handle.



Step 3: Install the new battery to be replaced and then connect the interfaces at both ends in the original way.



Step 4: Screw on the cover and you're done

IX. How To Charge The Replacement Battery?



Step 1: Locate the charge converter and connect the converter to the replacement battery.



Step 2: Locate the charger and plug the charger port into the other end of the converter.



Step 3: Connect the power cord and plug it into an outlet to charge it.



Step 4: Follow the above steps to connect and charge



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