Quick Start for Electrical Spool (3 in 1)





Contents

| Packing list | 01 |
|---|----|
| Safety Rules | 05 |
| Product specification | 06 |
| Usage instructions | 07 |
| Installation | 08 |
| Operation | 18 |
| Operation (Share screen & USB recording) | 22 |
| LED color index (OPSS-PM) | 29 |
| Maintenance and after-sales support | 30 |
| Disclaimer | 31 |

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| Serial Number | Item Name | Quantity | Unit |
|------------------|----------------------------|----------|------|
| 1 | Eletric Spool | 1 | PCS |
| 2 | OPSS Power Management | 1 | PCS |
| 3 | Universal Power Adapter | 1 | PCS |
| 4 | AC Input Cable for OPSS-PM | 1 | PCS |
| 5 | E-Tank Mount on ROV | 1 | PCS |
| 6 | Mini USB to Ethernet cable | 1 | PCS |
| 7 | HDMI Cable | 1 | PCS |
| 8 | RC Cable | 1 | PCS |
| 9 | E-spool to OPSS-PM Cable | 1 | PCS |
| 10 | AC Input Cable for OPSS-PM | 1 | PCS |
| 11 | Quick Start | 1 | PCS |

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FIFISH E-Spool

- 1. ON / OFF
- 2. Battery Level
- 3. Start / Stop
- 4. Speed Switch
- 5. 3.5 mm Port (to RC)
- 6. Ethernet Port
- 7. U Disk Port
- 8. HDMI Output
- 9. OPSS Port
- 10. Charging Port for E-Spool

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Onshore Power Supply System - Power Management (OPSS-PM)

- 1. AC Input socket (95~240 V in AC)
- 2. AC Output socket
- 3. ON/OFF
- 4. Status Indicator LED

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Electric Power Tank (E-Tank)

- 1. E-Tank
- 2. Securing Loop
- 3. ROV Plug

02/Safety Rules

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Before operating FIFISH products, please be sure to receive relevant training and take practices, and read this document thoroughly before performing underwater operations. Operations in violation of QYSEA safety rules may result in the consequence that your safety and interests cannot be guaranteed.

1.Unauthorized disassemble may cause the leakage problem, and damages on OPSS. Such type of safety issues is not responded to QYSEA's legal liability. In addition, the warranty will not valid for unauthorized disassembled products.

2.ROV shall be OFF before plug in power outlet.

3. Check the tether, connecters and seals after every dive.

4. The tether external surface shall contact well. If you find any damages, such as, scratches, peel off or split, stop using damaged tether and contact your local authorized service center or dealer for repair or replacing.

5.All connectors shall be clean and dry in all time to avoid shortages, and corrosions.

6.All seals and O-rings shall be contact and clean in all time, otherwise, replace it ASAP.

7.Keep the OPSS-PM OFF when deploy and retrieve.

8.It is **NOT** recommended to use OPSS when diver is operating underwater.

9.Do NOT touching OPSS's tether and E-Tank underwater.

10. Monitoring the status indicator LED, the error color code index

11.No heavy objects left on OPSS-PM.

12.Do **NOT** put OPSS-PM inside water or wet floors, and avoid wave splashes.

03/Product Specification



| Item | Specification |
|---|---------------------------------|
| OPSS Tether (Length) | 200 m |
| Work Temperature | -10 to 60 °C |
| Status Indicator | LED |
| Submersible Charge time (in Static Water) | less than 2 hours (20% to 100%) |
| HDMI Output resolution | 1080P 60fps |

04/Usage Instructions



Precautions before usage

1. Before usage, please check whether all accessory interfaces, plug-ins, and O-rings are damaged or missing, and whether they are kept dry and clean.

2. Before connecting the Q-Camera with the underwater vehicle, the underwater vehicle shall be powered off.

3. Check the battery level of the underwater vehicle to ensure that there is sufficient and stable power.

4. Please check the completeness of the Q-camera accessories, and make sure that the accessories can work normally when conducting electrical tests on land.

5. Before entering the water, please check the connectors of the accessories, in particular, the connector of the underwater probe should be strictly sealed. Please also check the connectors already installed on the underwater vehicle and prevent them from being damaged.

6. Check whether the underwater robot and remote control can work normally.

7. Check the batteries of mobile phones, tablet PCs and laptops.



1. Install the tail kits to the bracket



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2. Install the bracket between the thrusters





3. Place and lock the E-Tank to the bracket



Pull out and rotate 45° the Dowel Pin to Lock/Unlock

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4. Remove the proctective cap Insert ROV plug and fasten the cap





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5. Tie the securing loop around the rear wing





Note: Check whether the knot is locked. **NO** gap between the rings.

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6. Connect the OPSS-PM to the electric spool



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7. Insert power cord

Plug AC input Cable to the socket





Note: please keep the power outlet off for safety

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8. Connect one end of the 3.5 mm cable to the remote controller and the other end to the electric spool



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9. Connect MINI USB-ethernet cable between the RC and electric spool



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10. Connect HDMI cable between the extra screen and electric spool Insert U disk into the USB port



06/Operation

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1. Power ON the electric spool by the ON/OFF button





06/Operation

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2. Power ON the OPSS-PM by the ON/OFF button The OPSS-PM LED will stay red when ready



06/Operation (Release spool)

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3. Releasing the tether by operating the ROV to move The release speed depends on ROV



06/Operation (Retrieving spool)

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4. Lock the thrusters by the remote controller Select speed level with speed switch Press Start/Stop button to run the E-spool



06/Operation (Share screen & USB recording)

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HDMI2.0 can output video(1080P 60fps)



Download while recoding video and save to U disk



Note: HDMI Box do NOT share the screen and download while recording video simultaneously.

06/Operation (Share screen)



1. After the ROV is connected and power is ON.

Open the APP and click the 'toolbox' 🖻 , Select the 'HDMI Box'



06/Operation (Share screen)

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1. After the ROV is connected and power is ON. Open the APP and click 'HDMI Box'from the 'toolbox'

1.1 Click the 'Share Screen' 🙂 icon





06/Operation (USB Recording)

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1. After the ROV is connected and power is ON. Open the APP and click 'HDMI Box'from the 'toolbox'

1.2 Click the' download' 💽 icon to switch mode, Click the video button to start recording





06/Operation (USB Recording)

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1. After the ROV is connected and power is ON. Open the APP and click 'HDMI Box'from the 'toolbox'

1.2 After stopping recording, the' Folder' icon will flash and show the number of files currently being transferred. After the transfer is completed, the number of icons will return to 0 (Note: please do NOT plug the U disk during this period).



06/Operation (USB Recording)

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1. After the ROV is connected and power is ON. Open the APP and click 'HDMI Box'from the 'toolbox'

1.2 After the transmission is completed, insert the U disk into the computer The file path is as follows

| 4 | | |
|---|------------------------|----------------|
| ~ | DCIM_1 | 2021/5/20 0:20 |
| | DCIM_2 | 2021/5/20 0:20 |
| * | Photo | 2021/5/20 0:24 |
| | 📕 Video | 2021/5/20 0:21 |
| * | 20210628_172210_10.MP4 | 2021/5/20 0:22 |
| | | |

06/Operation (Charging for E-spool)

Connect the adapter to the E-spool



Full power

Charging



Blue: Leakage alarm

White: Overvoltage or under voltage alarm

07/Maintenance and After-sales Support

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Maintenance

1. Check each connector and plug, and get rid of the water or dust. Fasten the protective cap for next dive.

2. Check the seals and O-rings, replacing if it has been wearied or damaged.

3. Check the tether surface, make sure the tether jacket in good condition.

4. Rinse and soak the E-Tank in fresh water after dive, especially sea water operation.

5. Check the ON/OFF button on OPSS-PM, get rid of the dust or sand if necessary.

6.Cover all protective caps on the ports

After-sales support

If needing any help, please contact QY after-sales personnel

1. Online customer service: you can find the entrance of customer services via the FIFISH APP,

WeChat official account (FIFISH Underwater Robot) and the official website.

- 2. Contact number: +86-755-2266-2313 Working hours: Monday to Friday, 9:00-22:30 (GMT+8)
- 3. Email: support@qysea.com

4. If there is a machine malfunction, please record the malfunction video in advance, as well as providing the machine SN number and purchase invoice, so that we can provide you with a solution faster.

For more information about FIFISH Authorized Service Center, please visit https://www.qysea.com/support/repair-center/

08/Disclaimer

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We provide after-sales services to our customers, except for the following situations:

Collision damages caused by non-manufacturing factors, including but not limited to user faults.

Damages caused by unauthorized modification, disassembly, or opening of the enclosure that is not in accordance with official instructions or manuals.

Damages caused by improper installation, improper use or operation not in accordance with official instructions or manuals.

Damages caused by unauthorized service providers.

Damages caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.

Damages caused by underwater operations without following the instructions and manual recommendations. Damages caused by working in harsh water conditions (such as strong acid, strong alkali, strong current, huge waves, etc.).

Damages caused by product operations in an environment with electromagnetic interference (namely, mining areas or the areas near radio towers, caves, muddy areas, environment with radiation, tunnels, etc.).

Damages caused by operating the product in an environment that is interfered by other wireless devices (namely, transmitters, video downlinks, Wi-Fi signals, etc.).

Damages caused by forced diving with aging or damaged components.

Damages caused by using unauthorized third-party parts that have reliability or compatibility issues.

Damages caused by operating equipment with insufficient power or defective batteries.

Continuous or error-free product operation

Loss or damage of user data caused by the product

Any software, no matter it is provided with the product or subsequently installed.

Failures or damages caused by any third-party products (including products that QYSEA may provide or integrate into QYSEA products at the request of users).

Any damage caused by non-QYSEA technology or other support (for example, the support for solving the "operation method" problem or incorrect product settings, installation and firmware upgrades).

Damages caused by operating ROV in sensitive areas (such as military areas, natural resource reserves, marine reserves, marine conservation areas, etc.).

Damages caused by unpredictable factors (such as water flow, cave collapse, animal swallowing, etc.).

Products or parts whose identification labels have been changed or without identification labels

Do not place heavy objects on the product, and handle it with care.

Water droplets or stains on the ROV may be caused by testing in the water in the manufacturing plant, which will not affect the characteristics and functions of the FIFISH underwater robot.

For more information, please view the explanation video on our website, or refer to the FAQs section in "FIFISH Application/Help/FAQs".

For the latest version of the user guide/manual and other instructions, please visit our website. https://www.qysea.com/support/user-manual/

Please email us via <a>support@qysea.com to contact our technical support



This content is subject to change without notice.