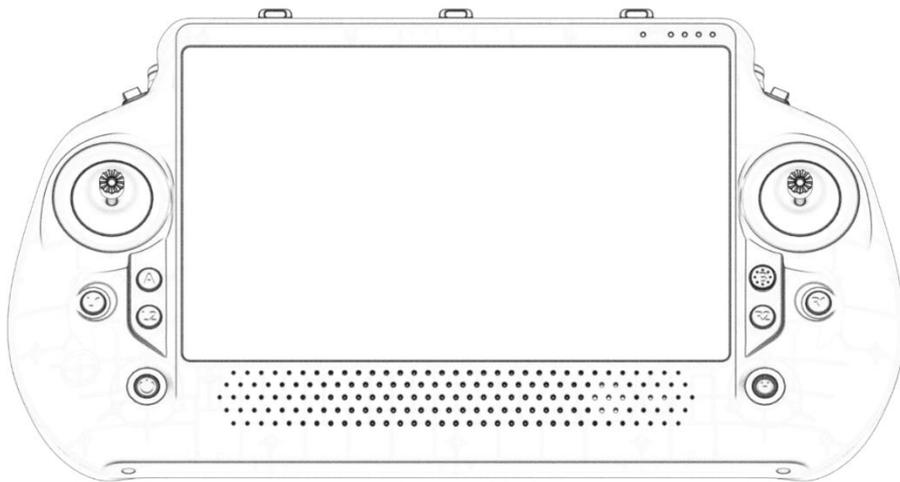




# Q-iRC Industrial Remote Controller

## USER MANUAL



VERSION  
1.0.0- 2025.10RE

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# 1. Reading Tips

## 1.1 Disclaimer

Before using the QYSEA Q-iRC Industrial Remote Controller (hereinafter referred to as the "Remote Controller"), please carefully read this manual and the corresponding underwater robot model user manual in their entirety, and strictly adhere to all relevant safety operating requirements. If you fail to provide the product's navigation log, we may be unable to analyze the cause of any incident and consequently unable to provide warranty or other after-sales services. By commencing use of this product, you acknowledge that you have read, understood, and accepted all terms related to this product, and agree to assume full responsibility for your actions and all resulting consequences.

- This product is not suitable for children and should be kept out of reach of children and pets.
- We shall not be liable for any product damage or personal/property loss resulting from violations of the stated risks during use, and no complimentary maintenance or repair services will be provided.
- We shall not be liable for any product damage or personal injury/property loss resulting from the use of incompatible parts or modification of this product in any manner inconsistent with our instructions.
- Please ensure that any actions you take do not endanger your own or others' personal safety or property.
- You agree to use this product solely for legitimate purposes and accept the above terms along with any related policies or guidelines we may establish.

## 1.2 Precautions Before Use

- This device is exclusively compatible with QYSEA ROV.
- Before use, thoroughly inspect all accessory interfaces, connectors, and O-rings for damage or missing parts, and ensure they remain dry and clean.
- Remove the protective cover from this device before use. After completing operations, be sure to reinstall the protective cover over the probe.
- Before connecting this device to the underwater robot, turn off the underwater robot's power.
- Confirm that the Remote Controller and underwater robot have sufficient battery power to ensure stable power supply during operation.
- Before connecting the Remote Controller to the underwater robot, turn off the underwater robot's power first.
- When inserting the connector, align the positioning slots and keys to avoid bending or damaging the pins.
- After completing the operation, reinstall the protective cover to safeguard the connector.
- Before startup, inspect and confirm that both the underwater robot and Remote Controller are in normal operating condition.

## 1.3 Disclaimer

We provide after-sales service to our customers, except in the following circumstances:

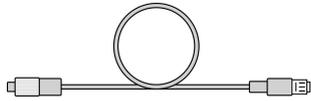
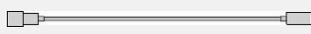
- Collisions or damage caused by non-manufacturing factors, including but not limited to user error.
- Unauthorized modifications, disassembly, or damage to the housing or equipment resulting from failure to follow the official manual.
- Damage resulting from failure to properly install, use, or operate the device according to official instructions or manuals.
- Damage caused by unauthorized service providers.
- Unauthorized circuit modifications, as well as damage caused by incompatible battery or power adapter models or misuse.
- Damage resulting from underwater operation not conducted in accordance with the instructions or manual recommendations.
- Damage caused by operation in harsh aquatic environments (e.g., strong acids, strong alkalis, high currents, large waves, etc.).
- Damage caused by using the product in environments with strong electromagnetic interference.
- Damage caused by operating the product in environments interfered with by other wireless devices (transmitters, video downlinks, Wi-Fi signals, etc.).
- Damage caused by forced diving with aged or damaged components.
- Damage caused by using unauthorized third-party components (which may have compatibility or reliability issues).
- Damage caused by abnormal device operation due to insufficient power supply or battery failure.
- Failure or damage caused by any third-party product (including third-party components provided or integrated by QYSEA at the user's request). Damage resulting from non-official technical support by QYSEA (e.g., support issues arising from incorrect operation instructions, settings, installation, or firmware upgrades).
- Altered or missing identification labels on the product or components.

## 1.4 Symbol Explanation

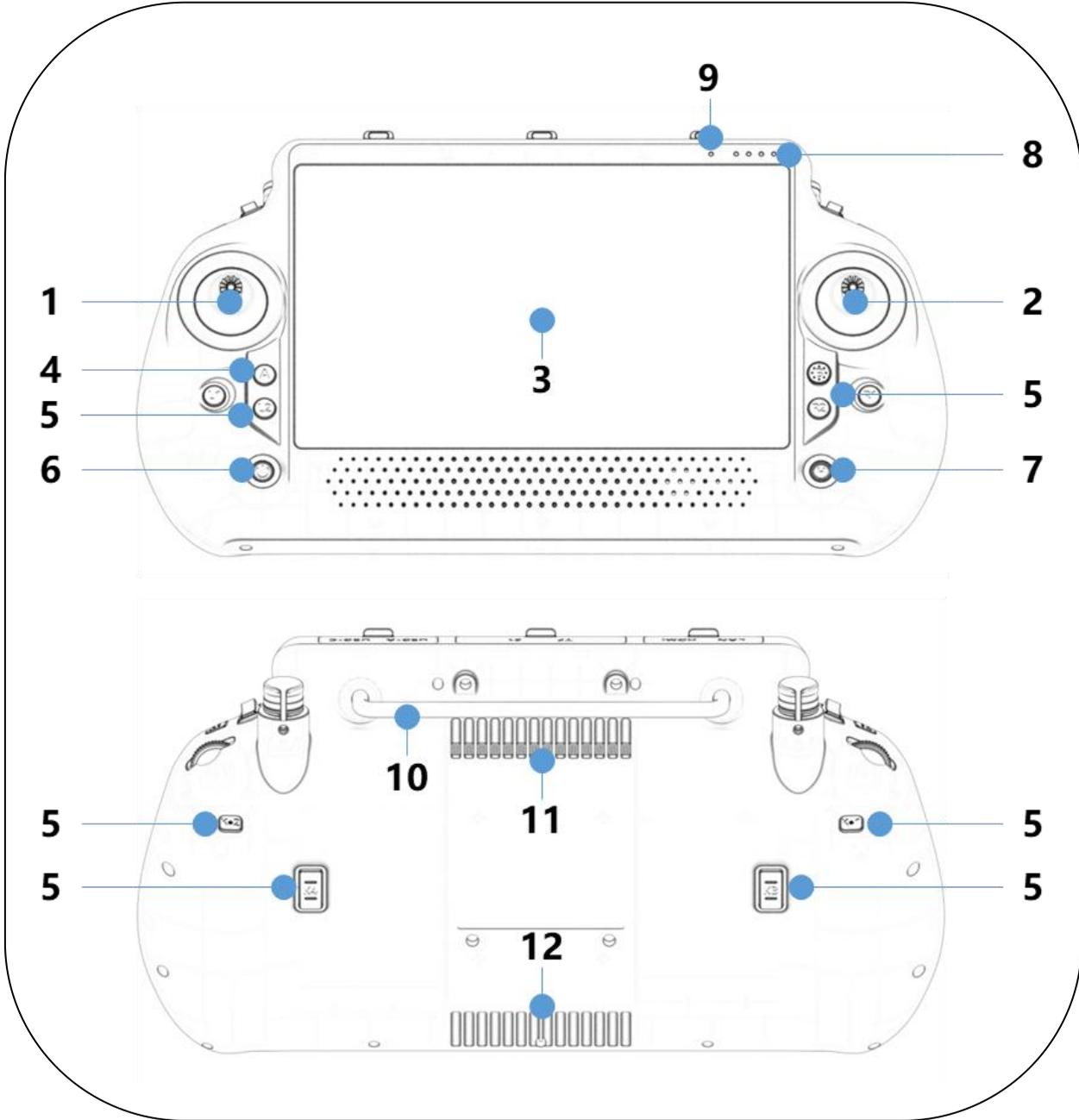
Symbol	Description
	Warning: A potentially hazardous situation may exist.
	Important: Matters requiring attention.
	Tip: Operational or usage suggestions.
	Note: Supplementary or reference information.

## 2. Understanding Remote Controller Components

### 2.1 General Description of Components

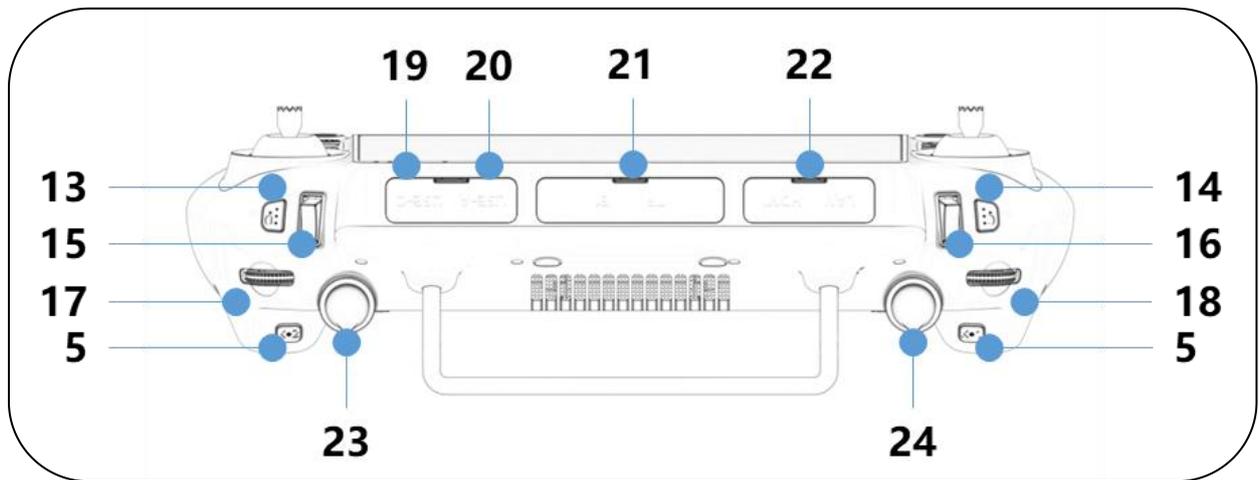
Number	Image	Name	Notes
1	 A handheld industrial remote controller with a central screen, two joysticks, and various buttons.	Q-iRC Industrial Remote Controller	Remote Controller compatible with FIFISH ROV.
2	 A network cable with a circular loop in the middle and connectors at both ends.	Network Cable	Specifications: 3 meters in length; Purpose: Connects the Remote Controller to a computer to transmit sonar images, positioning data, etc.
3	 A thin, straight converter cable with connectors at both ends.	Converter Cable	Specifications: 10 cm length, PLC interface to 3.5 mm jack; Purpose: Connects the Remote Controller to the cable reel.

## 2.2 Remote Controller Component Description



No.	Component	Description
1	Left Joystick	Aircraft attitude control.
2	Right Joystick	Aircraft attitude control.
3	Screen	Displays the software system interface.

4	Depth Hold Button	Pressing button A causes the underwater robot to automatically maintain the preset underwater depth and hold a stable vertical position.
5	Quick Access Keys	Key labels L1, L2, R1, R2, B, K1, K2, K3, K4 are used to quickly activate preset functions.
6	Power Button	Used to turn the underwater robot system power on or off.
7	Motor Control Button	Labeled H, this button activates or deactivates the underwater robot's motors.
8	Battery Level Indicator	Displays the current remaining battery level.
9	Power Status Indicator	Indicates the current power status: On/Off/Charging.
10	Handle	/
11	Top Air Outlet	/
12	Lower air outlet	/

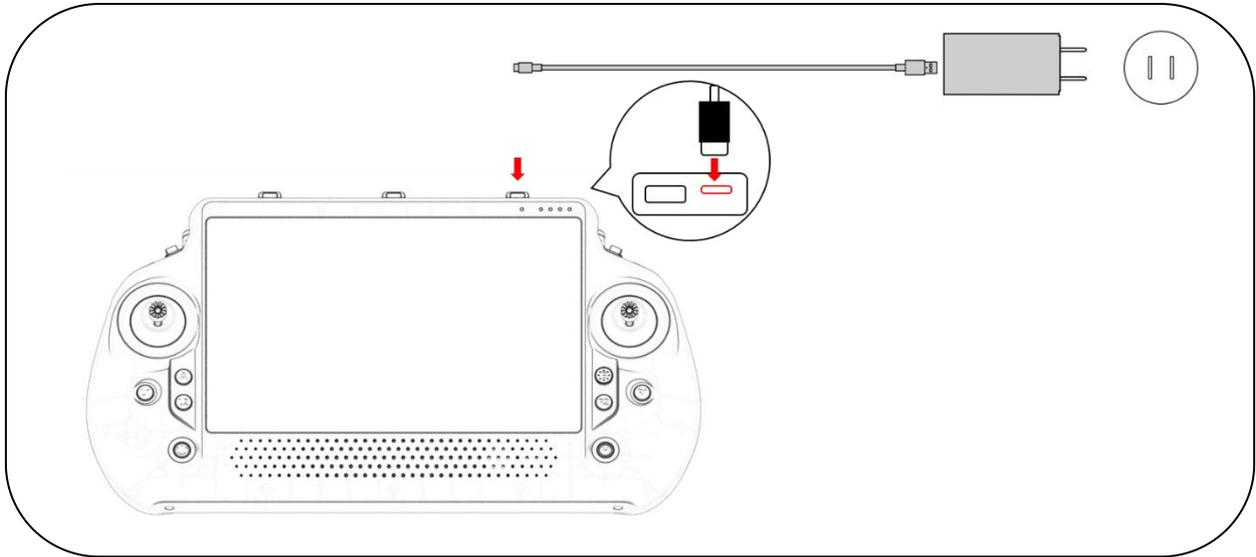


No.	Part	Description
13	Photo Button	Used to capture a static image within the current camera's field of view.

14	Video Recording Button	Used to start or stop video recording.
15	Light Control Switch	Adjusts the brightness of the underwater robot's LED lights.
16	Navigation Mode Switch	Used to switch between different control modes (Attitude, Motion, Head Tracking).
17	Right Joystick	Controls aircraft attitude or attached accessories.
18	Left dial	Aircraft attitude control.
19	USB-C port	For connecting the charger to power the Remote Controller.
20	USB-A port	Supports external portable storage devices, etc.
21	microSD Card Slot	Used to insert a microSD memory card for storing captured videos and photos.
22	HDMI port	Video output.
23	PLC port	Connects Remote Controller and cable reel.
24	Network Interface	Connects to a computer to transmit sonar images, positioning information, etc.

## 3. Basic Operations

### 3.1 Charging



#### **!** Important:

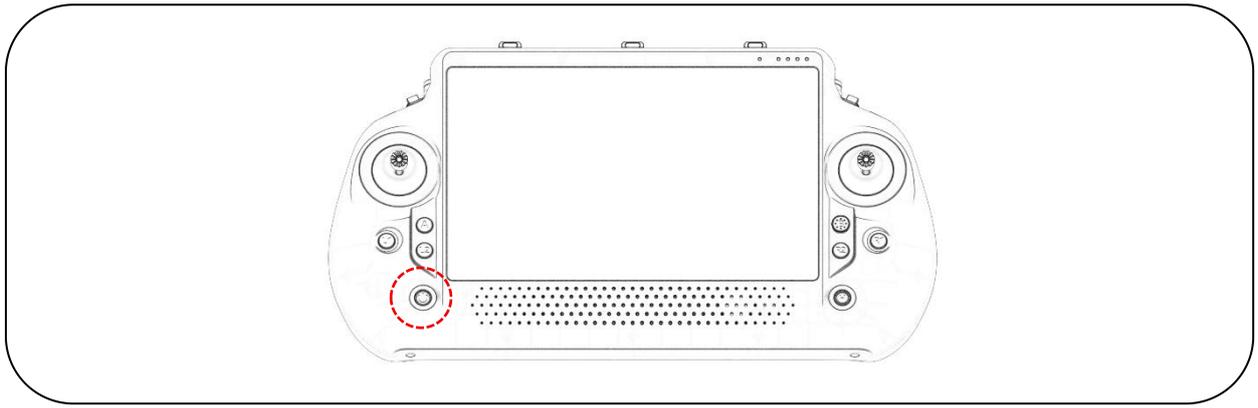
- If the Remote Controller is not used for an extended period, charge it every 3 months to prevent prolonged low battery levels from affecting battery life or causing damage.

#### **⚠** Warning:

- Charge the Remote Controller using the included charger or any other charger supporting the USB PD 3.0 protocol. Using third-party chargers that do not meet these requirements may damage the Remote Controller's battery.
- After charging is complete, promptly disconnect the charger from both the Remote Controller and the power source.

### 3.2 Powering On the Remote Controller

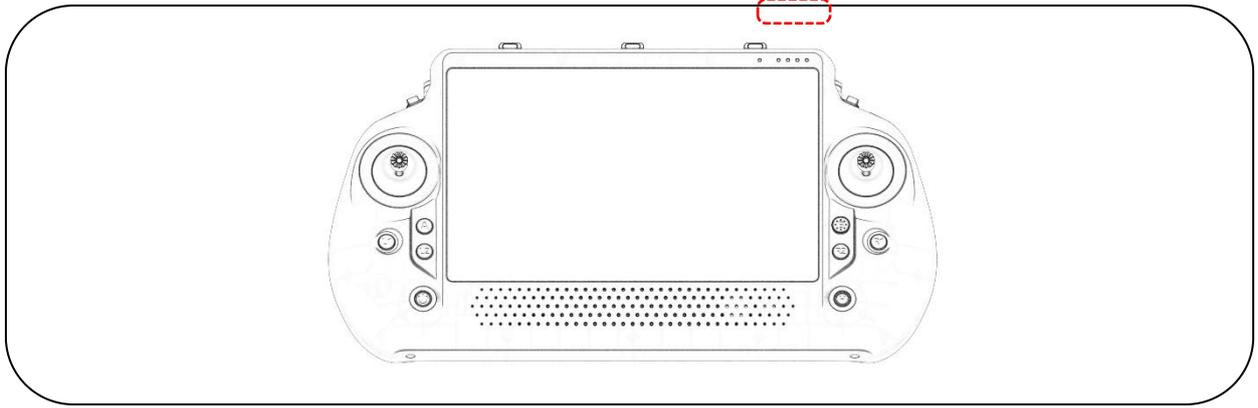
Press the power button once, then hold it down to turn on the Remote Controller.



### 3.3 Checking Battery Level

**Method 1:**

When the Remote Controller is off, press the power button once to quickly check the current battery level range via the battery indicator light status.

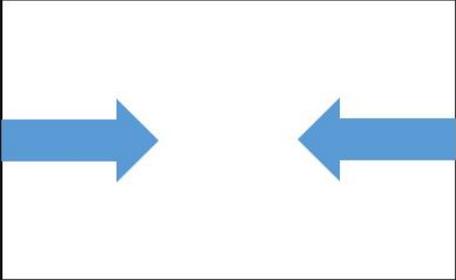
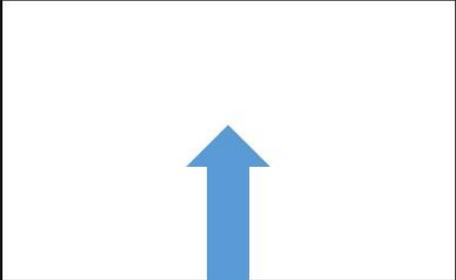
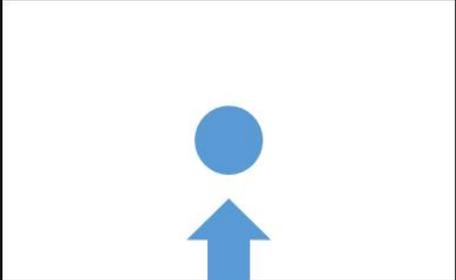
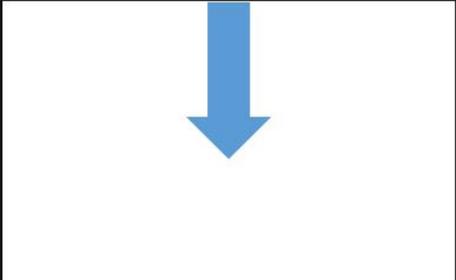


Battery Indicator Status	Battery Level
● ● ● ●	100%
● ● ● ●	76% - 99%
● ● ● ○	51% - 74%
● ● ○ ○	26% - 50%
● ○ ○ ○	0% - 25%
● Constant On ● Flashing ○ Off	

**Method Two:**

After turning on the Remote Controller, you can quickly check the current battery level range by observing the battery indicator light status, accessing System Settings > **Battery**, or viewing **the System Status Bar**.

### 3.4 Touchscreen Operation

Touchscreen Operation	Feedback and Operation
	<p><b>Back Operation</b> Swipe inward from the left or right edge of the screen</p>
	<p><b>Return to Home</b> Swipe up from the bottom edge of the screen</p>
	<p><b>Access the multitasking center</b> Swipe up from the bottom edge of the screen and hold for a moment</p>
	<p><b>Open the status bar</b> Swipe down from the top edge of the screen. The status bar displays information such as the time, Remote Controller battery level, and network connection status.</p>

	<p><b>Open the Quick Settings panel</b></p> <p>Swipe down twice from the top edge of the screen. The Quick Panel interface includes brightness adjustment and quick functions.</p>
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### 3.5 Custom Function Keys

For the layout of Remote Controller shortcut keys, please refer to the "Remote Controller Component Guide."

Customizable function keys include L1, L2, R1, R2, K1, K2, K3, K4, and the five-way directional pad B. Key customization configuration functionality will be available in future updates of the QYSEA FIFISH App.

### 3.6 Remote Controller Management

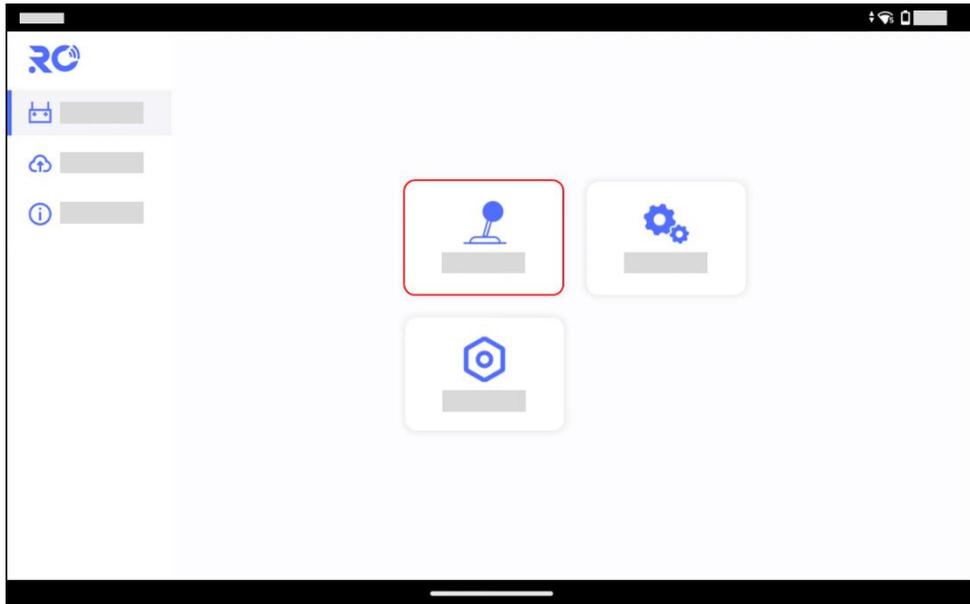
The RC Tool App is the built-in management software for the Remote Controller. You can use the App to centrally manage the Remote Controller, including performing calibration operations, data transfer, version checks, and more, facilitating device maintenance and management.

#### 3.6.1 Remote Controller Calibration

Within the RC Tool App, you can calibrate joysticks and rotary knobs to ensure precise control accuracy. This feature allows recalibration of the center position and travel range for both left/right joysticks and rotary knobs, eliminating drift caused by prolonged use or environmental changes. This results in more accurate input, stable response, and reliable attitude control during underwater robot operations.

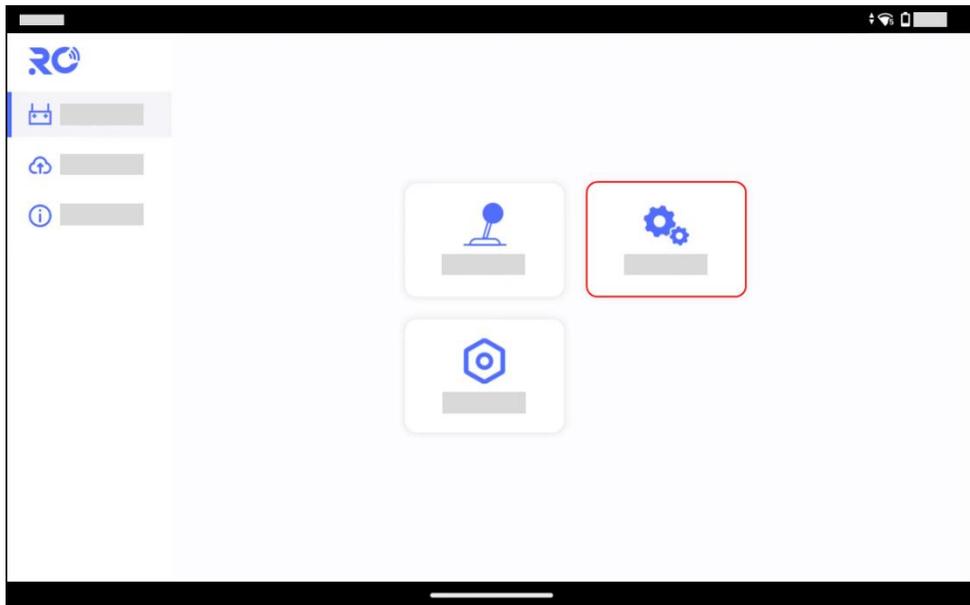
- **stick Calibration**

1. Open the RC Tool App from the system main interface and tap **stick**.
2. Tap **Start** and follow the on-screen prompts to correct the accuracy of the left and right joysticks.



- **Volume Calibration**

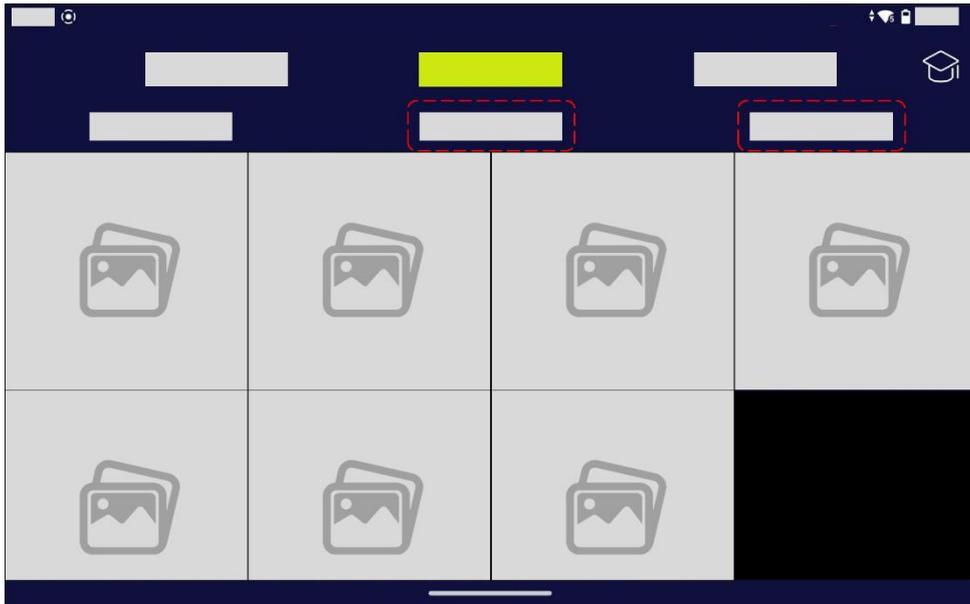
1. Open the RC Tool App from the system main interface and tap "**Volume**".
2. Tap **Start** and follow the on-screen prompts to calibrate the accuracy of the left and right volume.



### 3.7 Underwater Robot Image Export

Photos and videos captured by the underwater robot are stored in its internal memory. To export image files to the Remote Controller, follow these steps:

1. Open the QYSEA FIFISH App from the system main interface, tap "Media" to view, and select "Camera" to browse data.



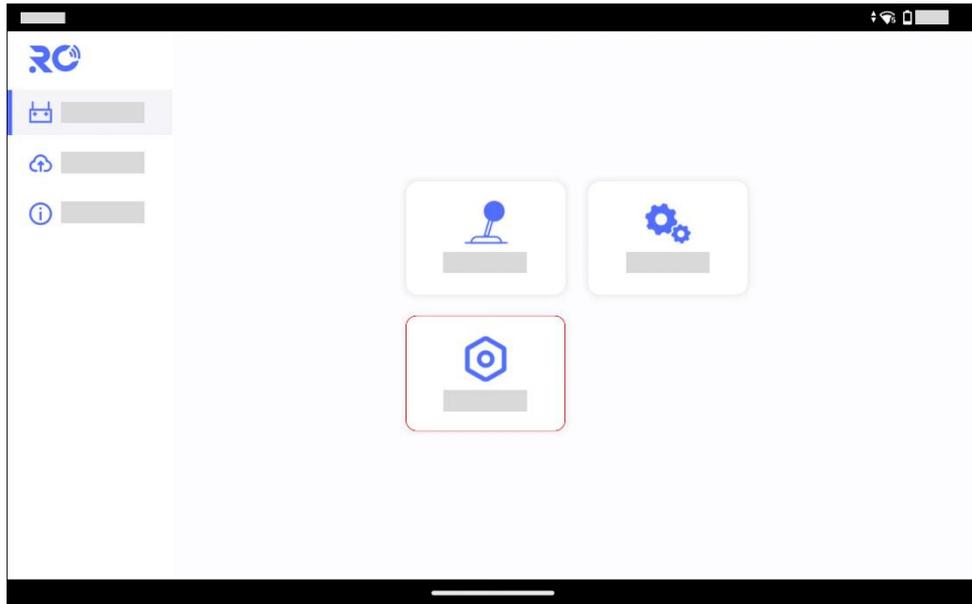
2. Long-press the images or videos you wish to download, then tap the "Save" button. The data will be downloaded from the underwater robot and stored in the DCIM folder on the Remote Controller.



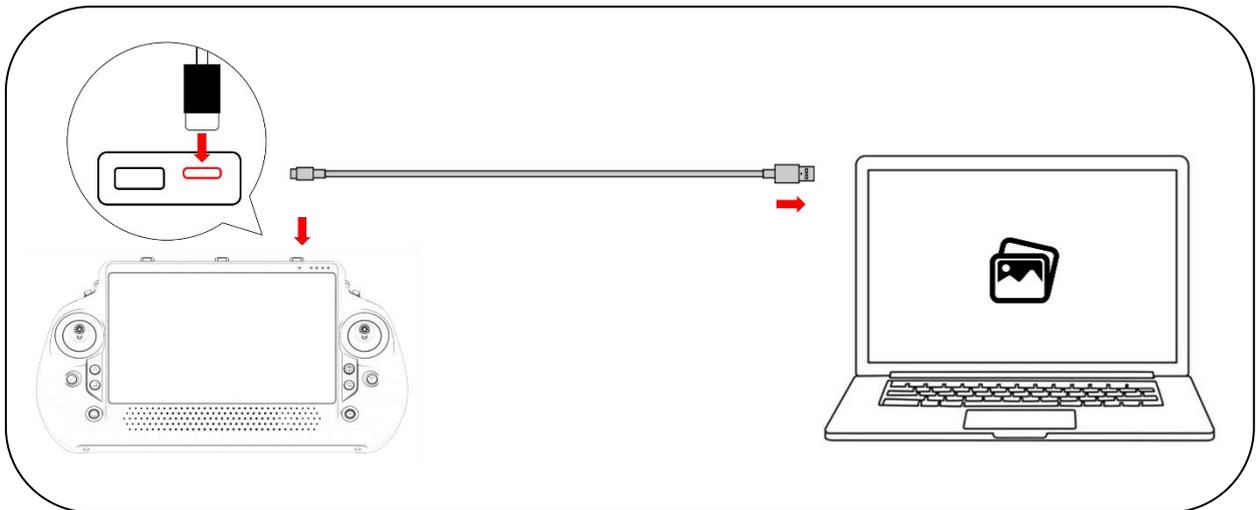
## 3.8 Remote Controller Data Storage and Export

### 3.8.1 Export via Data Cable

1. Open the RC Tool App from the system main interface and tap System Settings.
2. In **Connection Mode**, tap **Local Data Transfer** and select **Data Transfer**.

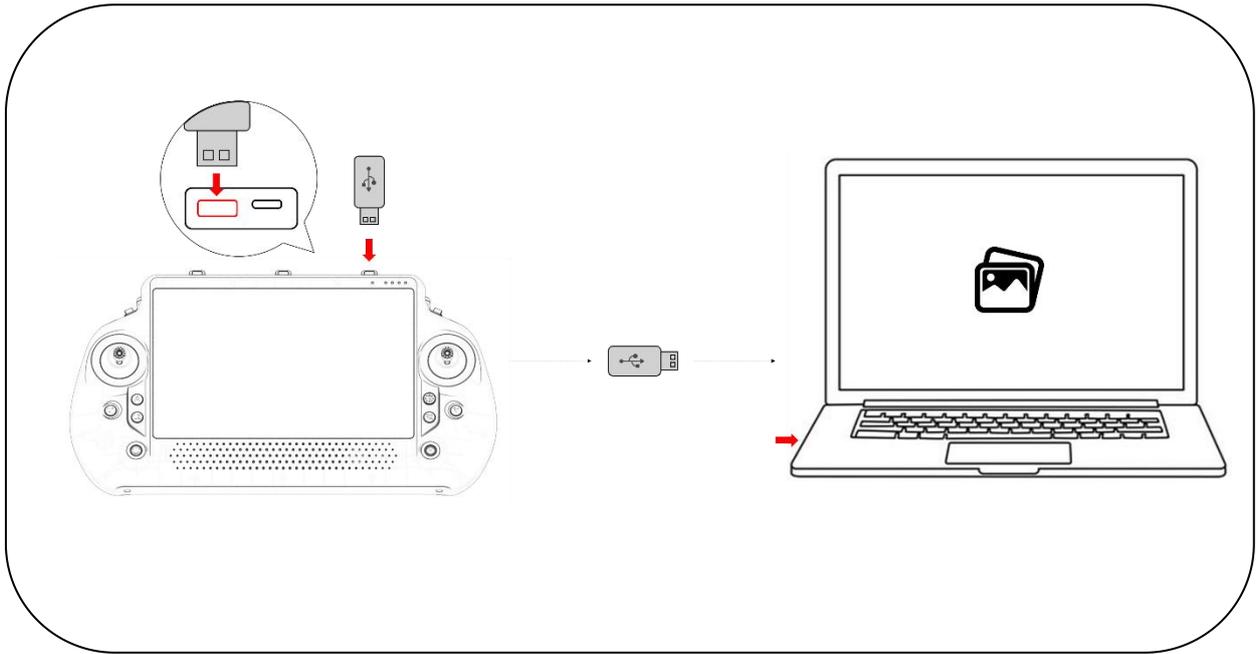


3. Connect the Remote Controller to a computer using a USB Type-C cable.



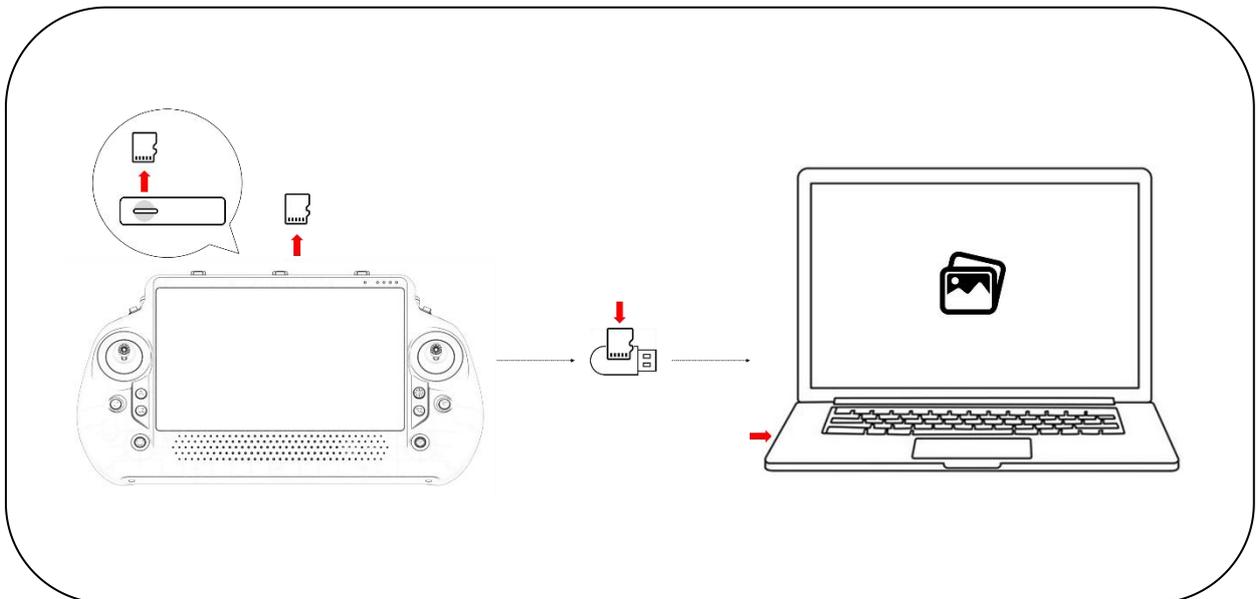
### 3.8.2 Export via Removable Storage Device

1. Connect your portable storage device to the Remote Controller's USB Type-A port.
2. Open the Files app from the system home screen to view, copy, or export files within the app.



### 3.8.3 Export via microSD card

1. Open the memory card slot cover on the top of the Remote Controller. Press the card lightly and release it to remove the microSD memory card.
2. Insert the microSD card into a card reader or a computer with a microSD card slot.
3. Once recognized, the computer will display it as a removable disk. Open it to view, copy, or export files from the Remote Controller.



 **Important:**

- Regardless of the method used to transfer data, after completing the operation, safely remove the device using the system's "Safely Remove Hardware" function before disconnecting the data cable, removable storage device, or microSD card to prevent data loss.

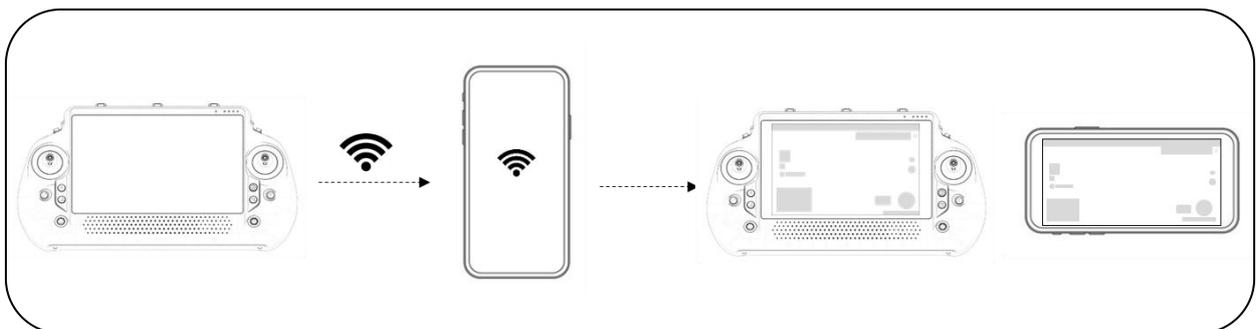
## 3.9 Screen Sharing

### 3.9.1 Multi-Screen Wireless Synchronization

This feature enables wireless sharing of the Remote Controller's screen with third-party devices. Third-party devices (such as smartphones or tablets) can view real-time footage from the underwater robot within the QYSEA FIFISH App. This facilitates team collaboration and visual monitoring, allowing operators, observers, and others to simultaneously access navigation footage and information.

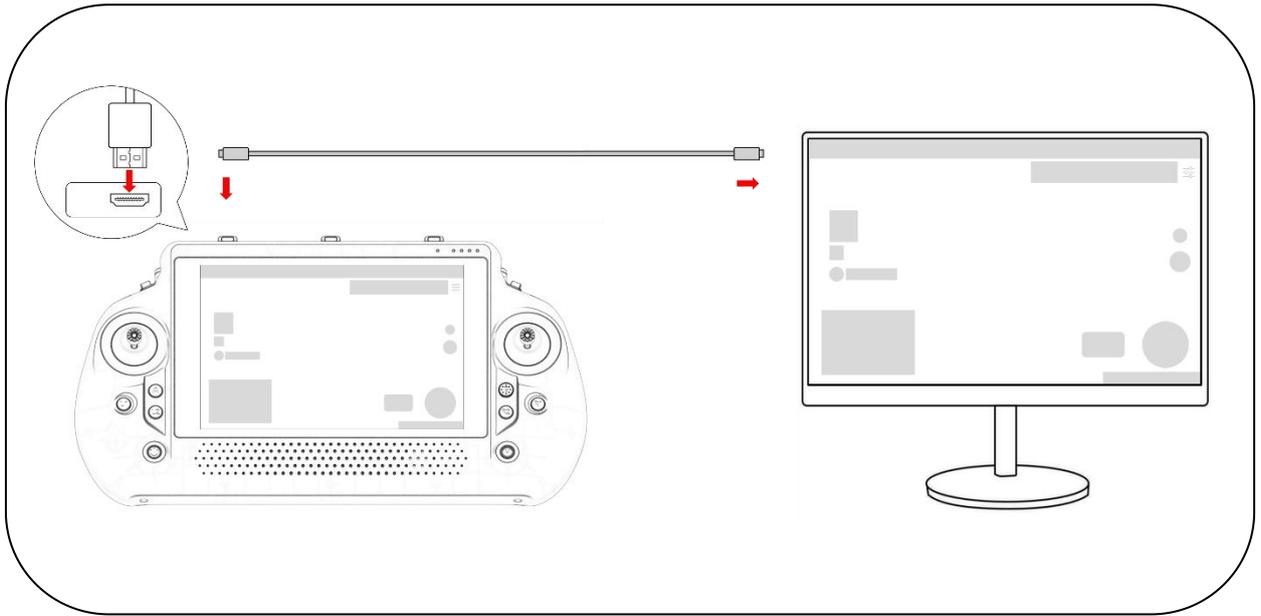
- **Connection Steps:**

1. Using the Remote Controller, navigate to System Settings > Network & Internet > Hotspot & Network Sharing > WLAN Hotspot > Enable.
2. Connect the third-party device (with QYSEA FIFISH App installed) to the Wi-Fi hotspot created by the Remote Controller.
3. Open the QYSEA FIFISH App on the third-party device, tap Connect Device to enter the observer interface.



### 3.9.2 HDMI Output

Connect the Remote Controller to a display via its top HDMI port using an HDMI cable to mirror the Remote Controller screen onto the display.



## 4. Maintenance and After-Sales Service

### 4.1 Maintenance

- Keep all connectors (ports and plugs) clean and dry. Install protective caps when not in use.
- Periodically inspect sealing components and rubber gaskets. Replace immediately if wear or damage is detected.
- Store this product in a dry, cool place after use.
- Operating in strong acid/alkali environments may shorten the service life of the underwater robot and its accessories.
- If this product becomes contaminated, clean and wipe it using soft materials.

### 4.2 After-Sales Service

For any issues, contact FIFISH Technology's after-sales personnel

1. Online Support: Access customer service through the FIFISH App, or the official website.
2. Contact Number: +86-755-2266-2313 | Business Hours: Monday to Friday, 9:00 AM - 8:00 PM (GMT+8)
3. Email:[support@qysea.com](mailto:support@qysea.com)
4. For equipment malfunctions, please record a video of the issue in advance and provide the machine serial number and purchase invoice to expedite our troubleshooting process.

## 5. Product Specifications

No.	Parameter Item	Parameter
1	Dimensions	292 mm (length) × 160 mm (width) × 80 mm (height)
2	Weight	1420 grams
3	Screen Size	7 inches
4	Screen Brightness	1500 nits
5	Resolution	1920 (horizontal) × 1200 (vertical)
6	Operating System	Android 13.0
7	Battery Capacity	10400mAh 7.2V Li-ion
8	Battery Life	8 hours
9	Power Consumption	9 watts
10	Charging Port	USB Type-C
11	Charging time	4.5 hours
12	Wi-Fi Band	2.4/5 GHz
13	Protection Rating	IP54
14	Operating temperature range	-20°C to +55°C
15	Storage Temperature	-30 °C to +65 °C
16	Operating Humidity	5% to 95%



