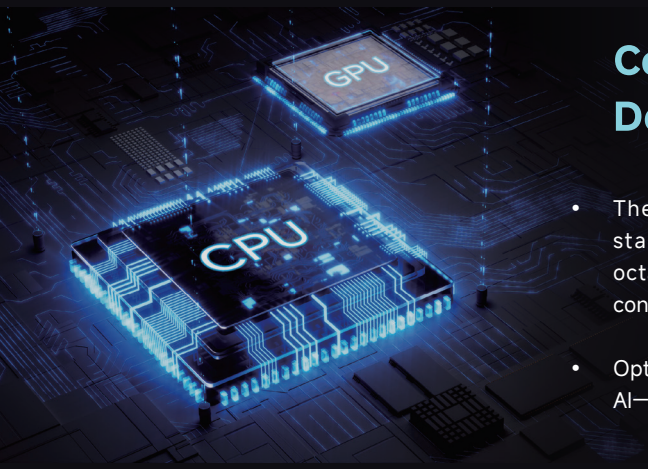
QYSEA

Q-iRC

AI Underwater Robot Industrial Remote Controller

Customizable Hotkeys | Multi-Data Integration | Ultra-Bright HD Display



Command with Power, Deliver with Precision

- The Q-iRC by QYSEA delivers smooth, stable control with a next-generation octa-core processor and efficient power consumption.
- Optimized for ROV control, HD media, and AI—enabling smarter, faster operations.

Ultra-High Brightness, Glare-Free Clarity

7 Inch
Full HD Display

1500 Nits
Ultra-Bright Display

- The Q-iRC Industrial Remote Controller features a 7-inch Full HD display with up to 1500 nits of brightness, delivering crystal-clear visuals and precise detail—even in direct sunlight.

8 Hours Uninterrupted Control, Extensive Battery Life

- The Q-iRC Industrial Remote Controller offers up to 8 hours* of continuous use, delivering reliable power across extended missions and varied inspection tasks.

*The data is sourced from FIFISH Robotics Laboratory and measured under specific testing conditions. Actual performance may vary during operations.

Customizable Smart Key Technology

- The Q-iRC Industrial Remote Controller features eight customizable smart keys.
- Users can assign functions or switch between multiple operation windows.
- This streamlines control for quick, intuitive operation with a simple grip and press.

One-Tap Station Lock

One-Tap Collision Avoidance

One-Tap Full-Screen Imaging Sonar View

One-Tap Full-Screen Underwater Positioning Map

One-Tap Return to Home

Real-time Imaging + Imaging Sonar Display

Left: Real-time Imaging
Right: Map Display + Imaging Sonar

Left: Real-time Imaging
Right: Imaging Sonar + Mini Map

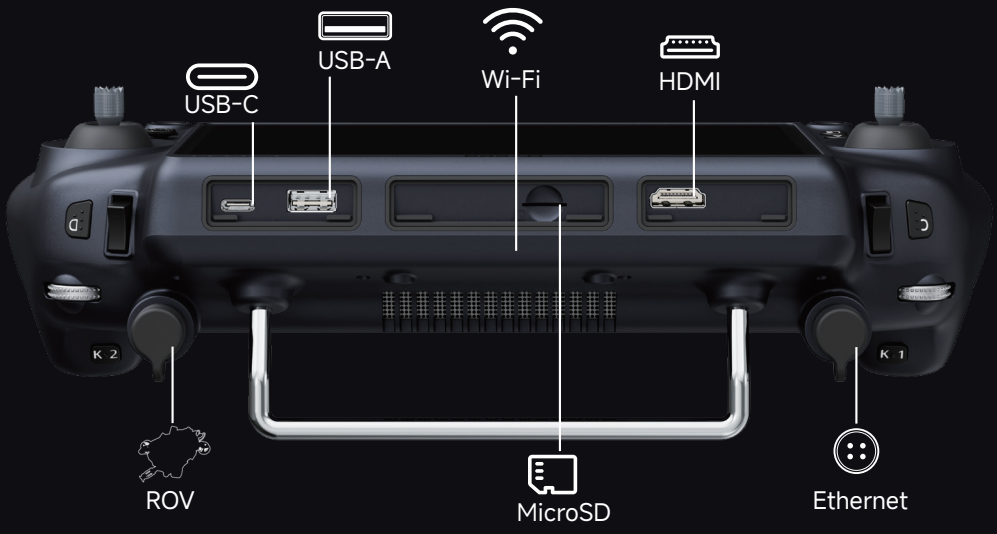
Left: Imaging Sonar
Right: Map Display + Real-time Imaging

Seamless Integration, Unified View

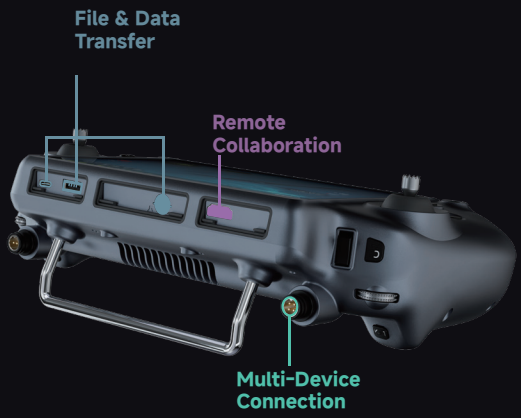
- Q-iRC combines real-time visuals, ROV heading, sensor data, and system status in one interface—enabling more informative and faster decision-making.

Multi-Port Connectivity, Built for Versatility

- Q-iRC offers multiple expansion ports for seamless integration with diverse operations and platforms, enabling efficient workflows and remote multi-screen collaboration.



Flexible Operation, Broad Applications



- **File & Data Transfer**

  Operation data and videos can be accessed and transferred via USB-A, microSD, and USB-C.

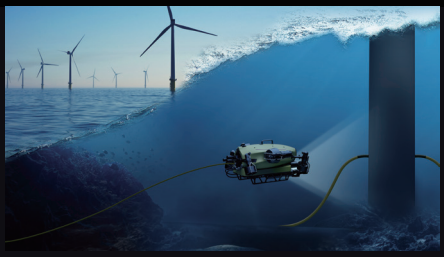
- **Remote Collaboration**

  Real-time video and data transmission via HDMI and Wi-Fi enables on-site and command center screen sharing.

- **Multi-Device Connection**

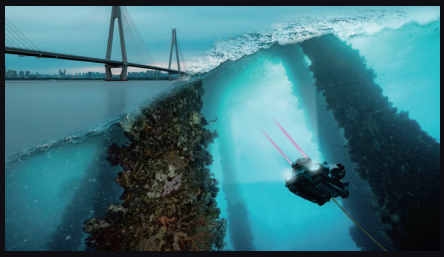
  Multiple devices connect seamlessly through Ethernet or Wi-Fi interfaces.

Industry Applications



Wind Energy

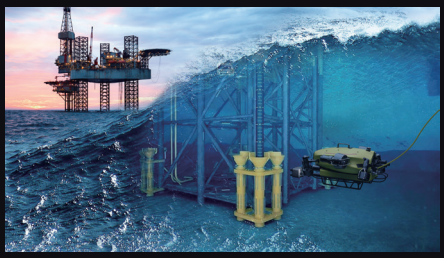
Maritime & Shipping



Infrastructure

Search & Rescue

Aquaculture



Oil & Gas

Q - iRC Technical Specifications

General

Battery Capacity	Lithium-ion battery (10400mAh@7.2V)
Charging Method	Recommended to use a 27W USB-C power adapter
Power Consumption	9W
Storage Capacity	RAM 4GB | eMMC 64GB | microSD/USB-A Expandable
Charging Time	4.5 hours
Battery Life	8 hours (5.5 hours at full power)
External Ports	TF*1、Ethernet*1、HDMI*1
Internal Ports	USB-A*1、USB-C*1、ROV*1
Operating Temperature	-20°C to 55°C
Storage Temperature	-30°C to 65°C
Operating Humidity	5% to 95%
Water & Dust Resistance	IP54
GNSS Support	GPS+GLONASS+Beidou+ QZSS+Galileo
Dimensions	292×160×80mm
Weight	1420g

Screen

Resolution	1920×1200
Size	7 Inches
Display Brightness	1500 Nits（maximum）

Wi-Fi

Standard	802.11 a/b/g/n/ac
Frequency Band	2.4GHz/5GHz

Bluetooth

Version	BT2.1+EDR/3.0/4.1 LE/4.2 BLE/5.0 LE

Other

Communication Channels	21
Control Types & Quantity	Joystick*2, Rotary Dial*2, Three-Position Switch*2
	Five-Directional Key*1, Button*12

QYSEA Website

QYSEA Films

QYSEA Technology
1/F, Phase 2, Galaxy Incubator
Shenzhen, Guangdong, PRC
partner@qysea.com
www.qysea.com