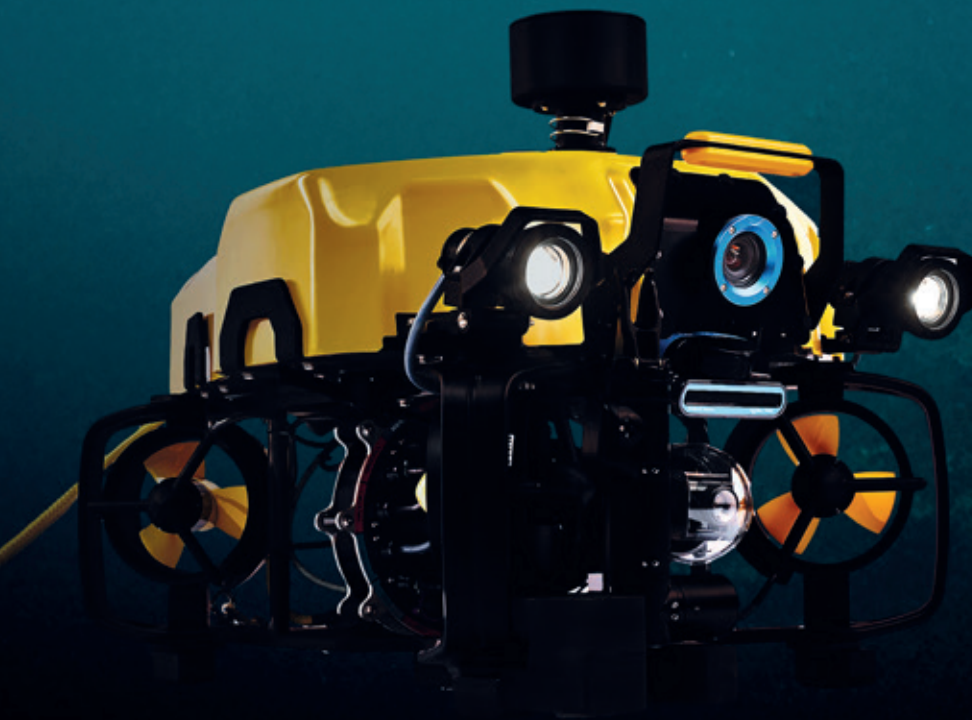


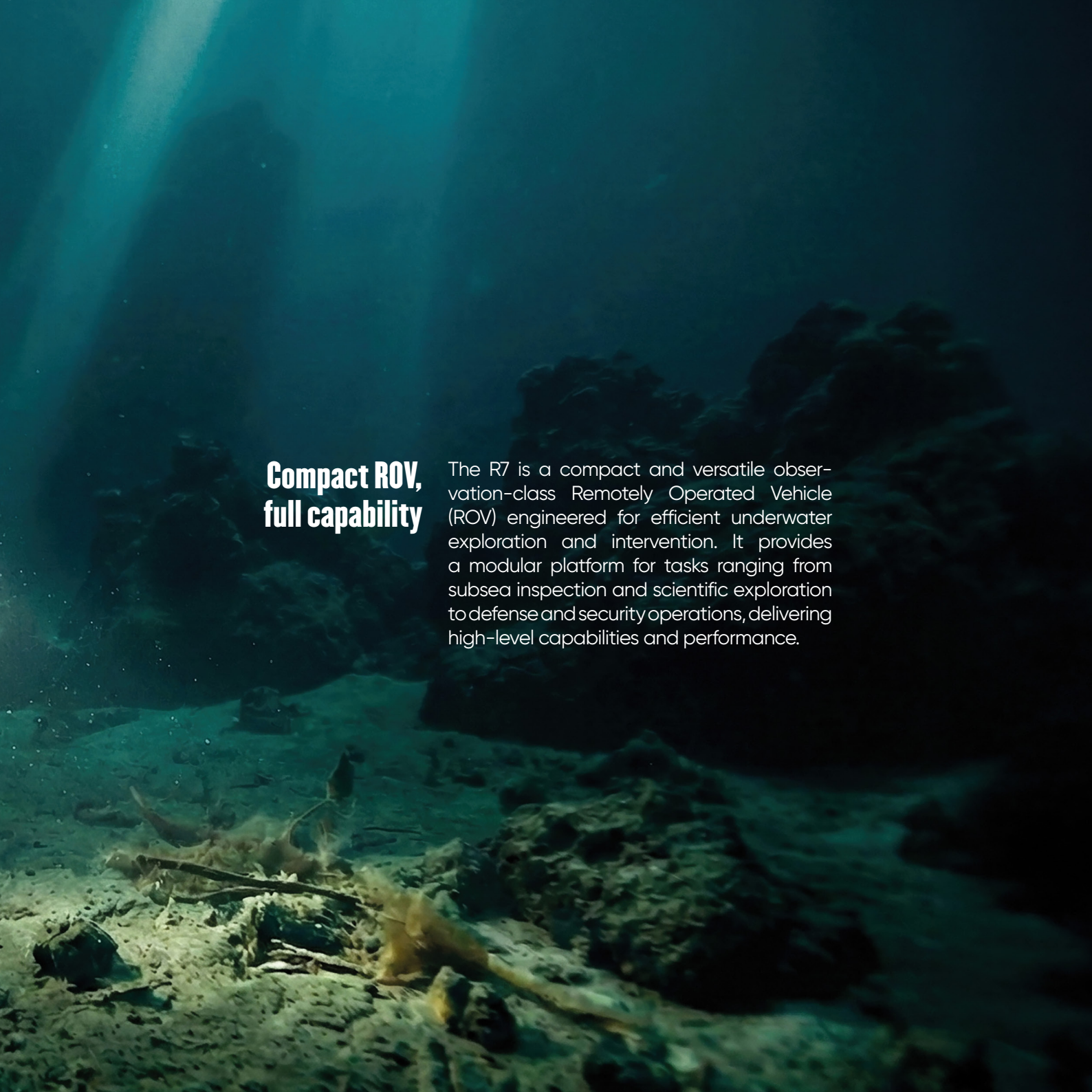
R7 ROV

SUBSEA INSPECTION



exail



An underwater photograph showing a sunbeam filtering down from the surface, illuminating a rocky seabed with some debris. The water is dark blue-green.

Compact ROV, full capability

The R7 is a compact and versatile observation-class Remotely Operated Vehicle (ROV) engineered for efficient underwater exploration and intervention. It provides a modular platform for tasks ranging from subsea inspection and scientific exploration to defense and security operations, delivering high-level capabilities and performance.

VERSATILITY THAT MEETS EVERY MISSION



DEFENSE AND SECURITY

Maritime security operations, including mine detection, surveillance, and reconnaissance, supporting the protection of critical infrastructure, ports, and harbors.



IMMERGED INFRASTRUCTURE INSPECTION

For comprehensive inspection, maintenance, structural assessment, and cleaning of underwater structures, including bridges, dams, wind and fish farms, as well as ports.



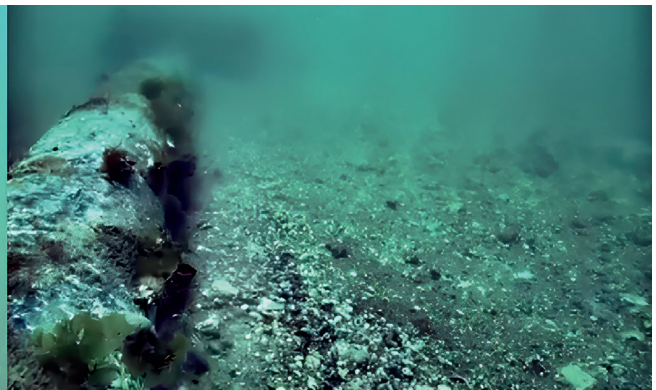
SEARCH AND RESCUE

For locating and retrieving objects or individuals, as well as inspecting wrecks, leveraging its maneuverability and imaging capabilities.



MARINE RESEARCH

Scientific exploration by conducting underwater surveys, biodiversity studies, hydrographic data and specimen collection in marine ecosystems.



R7 ROV is equipped with an innovative camera that enables real-time optimization of video quality (see image on the right)



Watch video of
R7 solutions

HIGH PERFORMANCE COMPACT ARCHITECTURE

PROVEN ARCHITECTURE FOR PRECISE DATA AND INTERVENTION

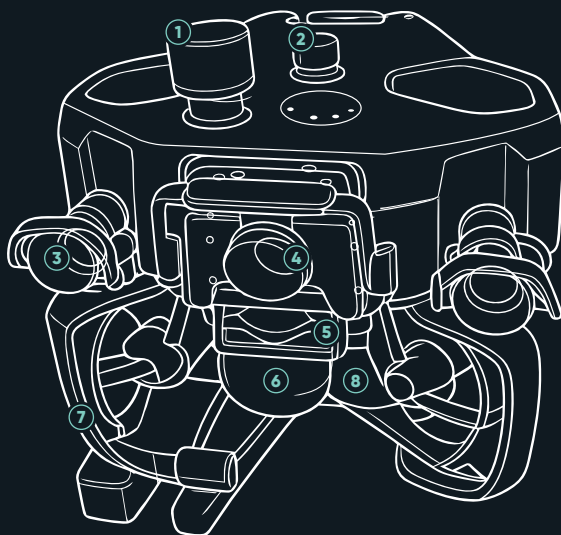
Full 360 degree of freedom control	7 DC Thrusters (4 horizontal (vectored) and 3 vertical for precise attitude control)
Man-portable	35 kg weight in air for rapide development
Precise mission data	Sensor data fusion (INS, DVL, USBL & GNSS)
Robust pressure rating	300 m operating depth
Compact footprint	L 877 x W 559 x H 576 mm



RUGGED CONTROL UNIT

Intuitive and ergonomic in harsh environments, it combines a shockproof and waterproof design with dual high-brightness full HD touchscreens to display all mission data in real-time at a glance.

INTELLIGENT NAVIGATION, AND MULTI-MISSION PERFORMANCE



ADAPT TO MISSION NEEDS

- ① GPS 3 bands for surface recalibration
- ② USBL Seatrac x010
- ③ 2x projector 5500 Lm
- ⑧ DVL Nucleus 1000 with INS integrated

Optional skids available for specific missions (EOD, NDT, etc.)

CLEAR VISION

- ④ Camera Orphie Scaph for turbid water
- ⑤ Sonar Oculus M750D or Gemini 1200ik
- ⑥ Camera HD Tilt

MANIPULATION CAPABILITIES

- ⑦ Manipulator arm Reach (3 or 5 functions)

INTUITIVE CONTROL

TOTAL OPERATIONAL AGILITY

AN INTUITIVE HUMAN MACHINE INTERFACE (HMI)

Operators can rely on easy and fully configurable access to all R7 ROV functions through a digital touch-screen HMI:

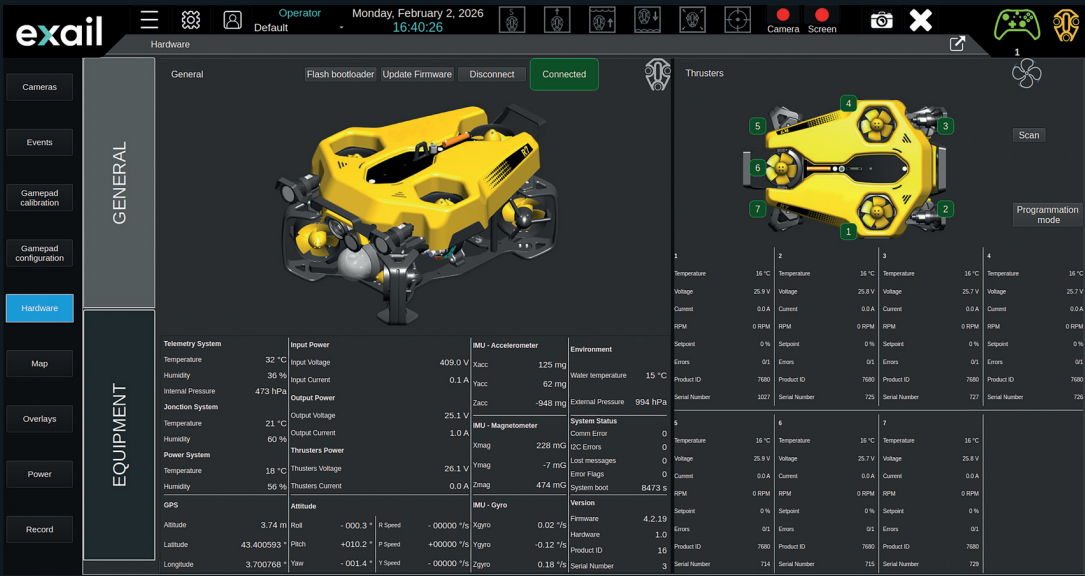
- Cameras
- Lighting
- Thrusters
- Real-time targets video recording and screenshots

Easy operations are further enhanced via a fully configurable control joystick to meet operators' preferences. Quick status diagnosis also makes operations more efficient via real-time monitoring and data logging of all ROV functions.

PROPRIETARY SOFTWARE FOR FULL CONTROL AND OPERATIONAL AGILITY

The R7 software is fully developed and owned by Exail, ensuring independence from third-party subcontractors and long-term sustainability:

- Guaranteed availability, continuity, and data confidentiality
- Controlled and sustainable software roadmap
- Fast deployment of updates and new features
- Rapid adaptation to operational needs, regulations, and customer feedback

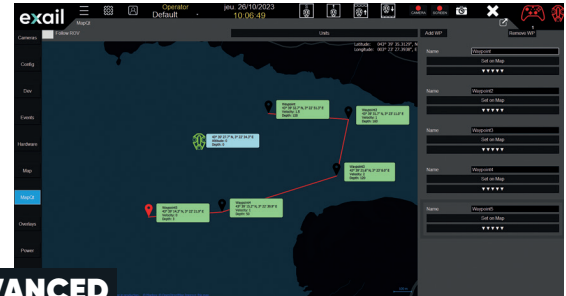


ADVANCED NAVIGATION FEATURES



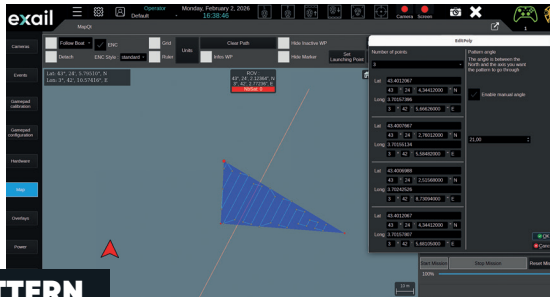
STATION KEEPING

Automatically holds the ROV in a fixed position for optimum inspection conditions.



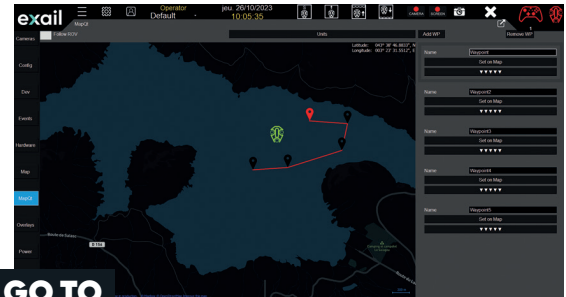
ADVANCED MISSIONS

Autonomous ROV navigation to predefined geographical points on a map (type Openmap/S57/S63).



PATTERN MISSIONS

A region-based survey mission can be customized by defining complex shapes and adjusting transect parameters to optimize the survey's orientation, detail, and duration.



THE GO TO WAYPOINT

Autonomous waypoint navigation enables accurate target reach and efficient mission execution without operator intervention.

1

Advanced maneuverability

Precise thruster control and an intuitive interface deliver unmatched accuracy and stability in complex environments.

2

Versatility

A modular, highly versatile ROV that adapts to any inspection mission by integrating a multiple range of tools and sensors.

WHY CHOOSE THE R7?

5

High-current operational capability

Safe and precise in strong currents, the R7 ensures robust control and maneuverability near offshore structures in challenging conditions.

3

High-resolution imaging

A high-definition underwater imaging with exceptional clarity, ensure reliable visibility for inspection, surveying, and data collection missions.

4

Easy deployment

Compact and light, the R7 is easily deployable from a light support vessel or RHIB and contributes to the overall cost-effectiveness of subsea inspection operations.