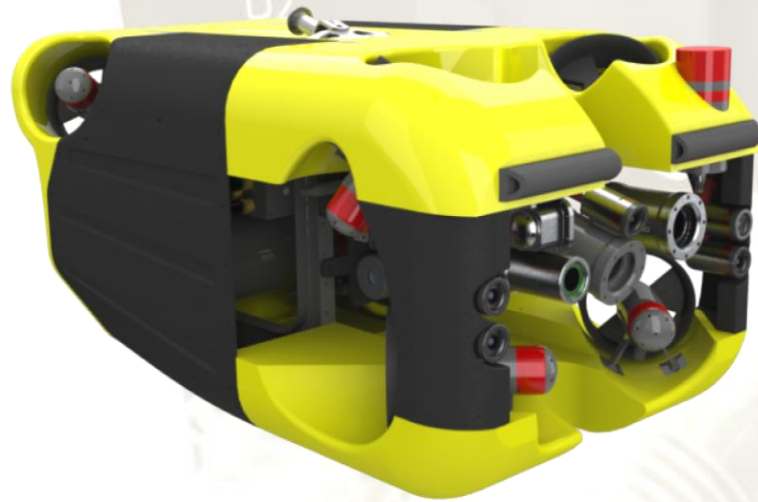


NJORD OBSERVATION ROV



Tomorrow's solutions today

NJORD represents a new breed when it comes to observation vehicles. Developed specifically for the demanding North Sea conditions it continues to build on the vast experience of the design team, combining the best traits from observation class vehicles with features normally only found in work-class environments.

Continuing the tradition of total-degree-of-freedom, with full maneuverability in all directions once pioneered by the Sea-Owl, NJORD takes the concept into today's demanding world.



When uptime is the key

Designed from the ground up with maintainability in mind the ROV itself constantly performs sanity checks on all systems and in collaboration with the pilot comes up with solutions to problems.

All connections, both high and low voltage, are constantly monitored for voltage and current as well as isolation faults. All can be individually switched by the pilot in real-time and are protected by both settable electronic and physical fuses. The same goes for survey channels, all are isolated and individually switchable.

High-quality connectors ensure a trouble-free use with many matings. The connectors are also terminated in an easy access pod with spare capacity, should the need for repairs or exchange arise.

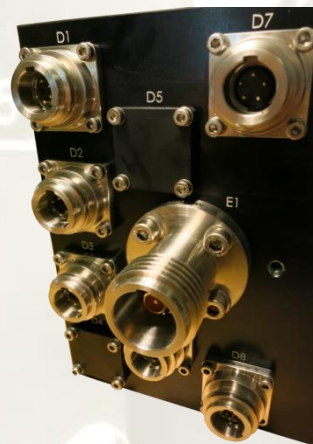
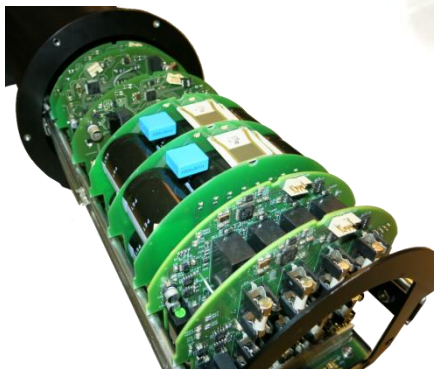
Further information

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Connect the world

Besides the system's internal orientation sensors the vehicle can be equipped with a vast range of external sensors and actuators. SD and HD video channels, GB Ethernet and various serial formats are but a few of the possibilities. Bulky equipment can be placed in an underslung skid, with attachment points directly into the central frame.

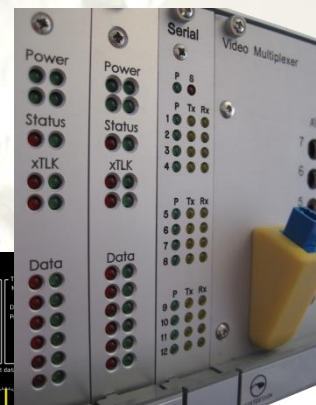
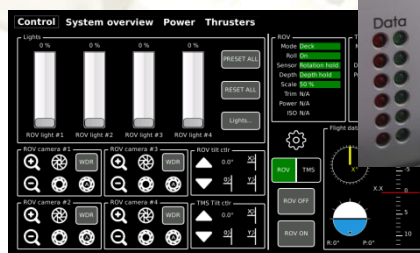


The beating heart

The electronics of the vehicle are all easily reached in their extendable rack, even while powered, for maintenance and service. The internal communication network, which is divided into several isolated nets to maintain integrity at all times, is based around a core real-time OS. Communication between the vehicle and the surface is based on Kystdesign's proven KD-CON Telemetry system to guarantee stability.

A fine level of control

Even though extremely capable, NJORD is very easy to control. Thanks to the sophisticated control system with integrated 3-dimensional orientation sensors it doesn't take long to get acquainted and mastering piloting the ROV. Intuitive and customizable pilot controls helps with the job and off-loads the pilot. A comfortable pilot chair and all controls at the tip of your fingers, through physical levers and touch-screen GUI, enable long hours without fatigue.



Short technical facts

Length: 1350mm	Launch weight: 225kg
Width: 750mm	Speed: 3kn
Height: 625mm	Power draw: 10kVA
Payload: 25kg (to customer spec)	Depth capacity: 2000m (optionally 3000m & 6000m)

Power to the core

NJORD packs a very powerful punch with seven brushless direct-drive DC thrusters, all tested in operation down to the maximum depth.

The power supply chain is constructed solely from solid-state components and transformers, no converters or high-frequency parts are used, to ensure a safe and reliable solution.