

USV KRILL



Krill is an unmanned zero emissions catamaran for applications related to hydrography, environmental control, oceanic research, etc., both in port/coastal areas and inland waters. It is available in two lengths, 2 and 4 meters and powered electrical engines with rechargeable batteries. It has a modular and flexible design to allow different configurations adapted to user's requirements including a wide variety of payloads.

The Ground Control Station is also flexible and could be provided in portable ruggedized cases, just a couple of laptops or installed in a control room. All options include UTEK proprietary applications for Krill remote control and telemetry management.

OPERATION MODES:

- ☞ **REMOTELY MANNED**
- ☞ **SEMI-AUTONOMOUS**
- ☞ **AUTONOMOUS**

⋮ **ROS** Compatible

APPLICATIONS

- Bathymetry
- Seabed inspection
- Water quality
- Air quality
- Search of sunken objects (anchors)
- Facilities inspection
- Surveillance
- Oil spill monitoring
- Environmental control
- UUV/ROV carrier & repeater

HIGHLY RELIABLE | MODULAR | ADAPTABLE FLEXIBLE | SCALABLE | AD-HOC SOLUTION

KRILL

KRILL Plus

Type	Dual hull catamaran	Dual hull catamaran
Length	2 m	4 m
Beam	1.2 m	2.5 m
Maximun depth	0.5 m	0.5 m
Propulsion	2x electrical engines 1.5 KW	2x electrical engines 5 KW
Batteries	Up to 6x30 Ah	Up to 4x200 Ah
Endurance	24 +Hour (@ 5 Knots)	24 +Hour (@ 5 Knots)
Maximun speed	8 Knots	12 Knots
Dry weight	60 Kg	250 Kg
Max. payload weight	50 Kg	150 Kg
Range	+120 NM	+120 NM
Modes	Remote manual, semi-autonomous, autonomous	Remote manual, semi-autonomous, autonomous
Communications	Options: UHF, S, L, 4G, 5G, SATCOM	Options: UHF, S, L, 4G, 5G, SATCOM
Standard sensors & equipment	GPS, compass, speed, attitude, motors, batteries, navigation camera	GPS, compass, speed, attitude, depth, motors, batteries, navigation camera
Ground control station	Options: portable or fixed Common capabilities: full USV control, positioning in electronic navigational charts, reception of housekeeping, navigation & payloads telemetries, UTEKPlanner, UTEKCamViewer	Options: portable or fixed Common capabilities: full USV control, positioning in electronic navigational charts, reception of housekeeping, navigation & payloads telemetries, UTEKPlanner, UTEKCamViewer
Optional equipment	ROS module, LIDAR, SONAR, towing system, environmental sensors, echo sounders, hydro-acoustics systems, winch, water column profiler	ROS module, LIDAR, SONAR, towing system, environmental sensors, echo sounders, hydro-acoustics systems, winch, water column profiler, AIS-B, RADAR, solar panels, ROV, UUV

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