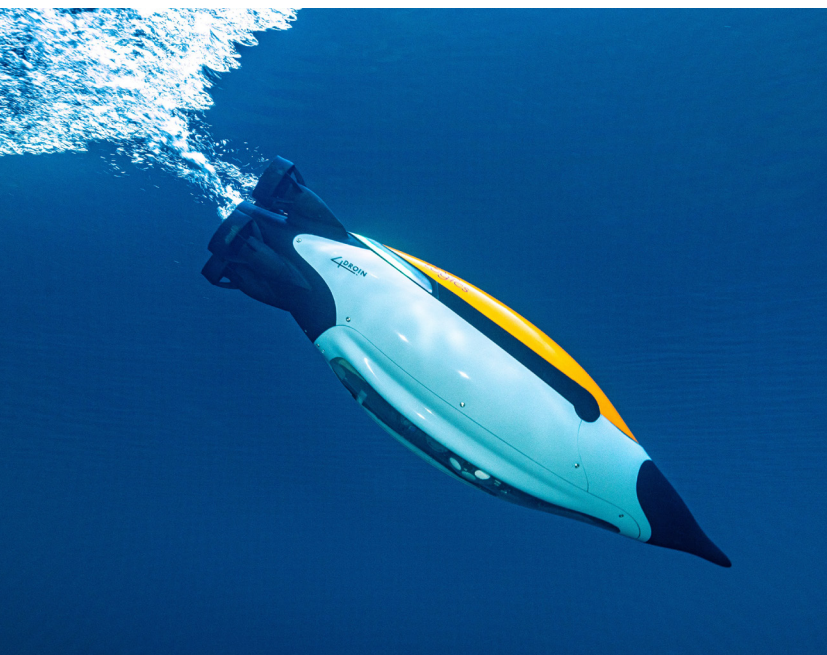


## Quadroin AUV

AUTONOMOUS UNDERWATER VEHICLE



EvoLogics Quadroin is an autonomous underwater vehicle with low-drag bionic design. Based on years of research, the AUV's shape and contour of a penguin-like spindle maximize its hydrodynamic performance.

- Fast and maneuverable at up to 5 m/s
- Propulsed by 4 horizontal thrusters in X-shaped configuration
- Automatically collapsible multifunctional antenna increases endurance and communication range at the surface
- Surface communication module with WiFi, 868 MHz radio and GNSS
- Built-in S2C M 18/34 "mini" modem with streamlined antenna cover for underwater communication and positioning
- Payload capacity for various sensors and instruments
- High-power flash lights for easy localization and recovery

### SPECIFICATIONS

GENERAL	OPERATING DEPTH	150 m
	SPEED	up to 5 m/s
	ENDURANCE	over 10 h at 2 m/s (depending on installed payload)
POWER	POWER SUPPLY	internal rechargeable Li-Ion batteries
	BATTERY CAPACITY	1 kWh
	CHARGING TIME	less than 6 hours
INSTRUMENTS	UW COMMUNICATION AND POSITIONING	S2C M 18/34 acoustic modem with atomic clock, up to 13.9 kbit/s
	NAVIGATION	GNSS, Nortek Nucleus1000 DVL with AHRS and INS, optional LBL positioning, underwater collision avoidance system (future option)
	GNSS	GPS, BDS, GLONASS, Galileo
	RADIO COMMUNICATION	WiFi 2.4 GHz, 863-870 MHz ISM modem (915 MHz available), GSM or Iridium optional
	INTEGRATED AHRS	Integrated xSens MTi-630
	ON-BOARD PC	I.MX 6ULL single core ARM Cortex-A7, 792 MHz, 512 MB RAM, 64 GB memory (SD-card), EvoLogics AI module for high-end onboard computing
PAYLOAD	PAYLOAD OPTIONS	side-scan sonar, forward and down looking full HD underwater cameras, dimmable LED lights, object recognition hardware and software, ADCP, CTD, fluxgate magnetometer
	PAYLOAD CAPACITY	up to 3 kg
	DIMENSIONS	length 1120 mm, Ø 304 mm max.
	WEIGHT	less than 25 kg in air / buoyancy trimmable