

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
- The propulsion system includes 4 horizontal thrusters in X-shaped configuration
- Combined automatically collapsible antenna increases endurance and communication range on 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
	OPERATING SPEED	up to 5 m/s
	ENDURANCE	over 10 h at 2 m/s
INSTRUMENTS POWER	POWER SUPPLY	internal rechargeable Li-Ion batteries
	BATTERY CAPACITY	
	BATTERT CAFACITT	
	CHARGING TIME	less than 6 hours
	UW COMMUNICATION AND POSITIONING	S2C M 18/34 acoustic modem, up to 13.9 kbit/s
	NAVIGATION	GNSS, AHRS, depth sensor, optional LBL positioning, DVL, underwater collision avoidance system
	GNSS	GPS, GLONASS
	RADIO COMMUNICATION	WiFI 2.4 GHz, 863-870 MHZ ISM modem (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 looking underwater camera, object recognition hardware and software, CTD, fluxgate magnetometer
	PAYLOAD CAPACITY	up to 3 kg

DIMENSIONS

WEIGHT in air/buoyancy

length 1120 mm, Ø 304 mm max. less than 25 kg/TBC

