



EXPEDITIONARY
LOW-LOGISTICS-
MULTI-MISSION
USV

Convert Surveillance & Reconnaissance

SQ08 is a lightweight expeditionary USV designed for rapid deployment across ports, harbours and littoral waters. Dual electric drives, autonomous navigation and a 30 kg payload support persistent ISR, coastal security, hydrographic survey and infrastructure protection. Its compact form and endurance give naval and security teams an immediately deployable capability for missions where access, discretion and speed matter.

RAPID DEPLOYMENT

Launch quickly from small craft, quays or shorelines with minimal infrastructure.

PERSISTANT WATCH

Maintain wide-area visual coverage using 360-degree night vision, electro-optical sensors and up to 16 hours of endurance.

FLEXIBLE PAYLOAD

Configure the internal mission bay for surveillance, sonar, hydrographic survey or maritime asset protection requirements.





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SQ08 SPECIFICATIONS

Physical / Performance

Length	2440 mm
Width	600 mm
Height	600 mm (excluding mast)
Weight in air	40 kg (with typical payload)
Propulsion	2 x proprietary Z-drive
Thrust	30 kg
Burst speed	Up to 15 kts
Endurance	12-16 hours (depending on speed and battery configuration)

Payload / Perception

Capacity	30 l / 30 kg in forward compartment
Cameras	3 x night-vision cameras for 360° view; ISR EO camera
Sonars	Multiple manufacturers supported
Optional sonar	Geoswath interferometric sonar, 500 kHz

Navigation

Type	GPS & IMU Type
Optional	SBG IMU + Trimble GNSS for harsh environments

Communications

Cellular	Dual Sim 4G
Radio	2.4 GHz ISM, range up to 12 km
Interoperability	Silvus StreamCaster Mesh MIMO radio, range up to 20 km

Electrical

Battery type	Lithium Polymer
Capacity	2.4 kWh per pack
Charging time	4 hours per set (depending on charger)

Software capabilities

Modes	Lithium Polymer
Return to home	Yes
Line planning	Yes, using ruggedised control tablet

MISSION ADVANTAGES

Secure the Littoral

SQ08 provides expeditionary surveillance and reconnaissance in unpredictable, unknown coastal environments. A 360-degree night-vision suite, optional electro-optical sensors and agile electric propulsion enable discreet patrol, target detection and route monitoring around ports, anchorages, naval bases and critical maritime infrastructure.

One Platform. Multiple Tasks

A 30 kg internal payload bay allows SQ08 to transition between security, inspection and survey missions. Sonar, multispectral and hydrographic sensors can be integrated to support close-proximity asset inspection, UXO mapping and environmental monitoring without committing or risking a dedicated crewed platform.

Control at Distance

Manual, semi-autonomous and fully autonomous operating modes allow SQ08 to match mission complexity and operator preference. Return-to-home, line planning and resilient mesh communications support controlled deployment beyond direct visual range while reducing workload and risk to personnel.

Command your space

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