



HYDROGRAPHIC
UNCREWED
SURVEY VESSEL
(USV)

Deploy Anywhere. Survey Precisely

SQ18 delivers rapidly deployable hydrographic capability for naval forces operating in ports, littoral waters and contested coastal waters. Designed for launch from ships, harbours or off-the-beach, it combines autonomous navigation, precision positioning and a Kongsberg EM2042 multibeam echosounder to support hydrographic survey, cartographic production, reconnaissance and Rapid Environmental Assessment while reducing operational risk.

VERSATILE DEPLOYMENT

Deploy SQ18 from naval vessels, slipways with minimal crew and infrastructure.

SURVEY GRADE

Collect hydrographic survey-grade data you can trust using integrated SQ18's multibeam sonar and precision navigation.

MULTI MISSION

SQ18 supports hydrography, REA, reconnaissance and scientific missions from one adaptable platform.





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SQ18 SPECIFICATIONS

Physical / Performance

Length / Breadth	5800 mm x 2300 mm
Height	3000 mm (1700 mm exc. mast)
Draft	810 mm
Weight	860 kg
Propulsion	1x Volvo Penta Z-Drive
Thrust	300 hp
Burst speed	40 kts
Range at cruise speed (20 knots)	200 km
Fuel capacity	1400 l (2x fuel tanks)
Live saving for SAR	Multiple grab handles and onboard buoyancy aids
COLREGs compliant	Yes

Payload / Perception

Capacity	500 kg
Sonar	Kongsberg EM2042 as standard. Others available
Camera options	Flir M364, M400, M500, Safran Vigy Observer HD

Navigation

INS, GNSS, Radar, LIDAR, Camera	Yes
Optional	SBG Ekinox D, Trimbal GNSS (for GNSS denied environments)

Communications

4G	Dual Sim 4G
Interoperability	IP-MeshRadio DTC NetNode (50km+ range) Fleet communication
SatCom options	Starlink, Iridium

Electrical

Battery type	Lithium Polymer (continuously charged by drive train)
Capacity	250 Wh per pack

MISSION ADVANTAGES

Extending Reach

SQ18 extends hydrographic capability beyond dedicated survey vessels, allowing naval units to gather accurate seafloor imaging data wherever operations demand. Low-logistic deployment from mission bays, small vessels or slipways, enables commanders to establish hydrographic awareness rapidly, supporting navigation safety, amphibious planning, mine warfare preparation and environmental assessment without delaying operational tempo.

Survey Precisely

Configured around the Kongsberg EM2042 multibeam echosounder with integrated INS and autonomous sound velocity profiling, SQ18 delivers repeatable bathymetric data to recognised hydrographic standards. Autonomous mission execution improves survey efficiency, reduces risk to personnel and provides commanders with reliable seabed information to improve situational awareness.

Engineered to Evolve

An open platform architecture allows SQ18 to adapt as operational requirements change. Additional mission payloads can be integrated in-theatre without redesigning the platform, enabling users to expand capability over time while protecting investment and supporting future naval CONOPS.

Command your space

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