DELAIR MARINE

SEASAM — HULLSCAN™ DRONE

THE FIRST ROV SPECIALIZED IN HULL INSPECTION

○ **Seasam HullScan™** is the most specialized ROV for **hull inspections.**
Faster than any of its competitors, its lateral speed is fast enough to counter currents of over **2 knots!**

○ **HullScan™** frame has been conceived for a maximum efficiency and hydrodynamic profile in any direction.
Its 4 orientable outer propellers allow **2 different speed navigation profiles**, whilst retaining the industry-leading stability and manoeuvrability of Seasam Origin drone.

Seasam HullScan comes with **new Smart Locks:**

- **Hull freeze** creates a visual lock of the drone in front of the ship hull with autonomous repositioning.

- **Advanced hull servoing** enables a visual lock combined with automatic lateral gliding alongside the hull for semi-autonomous inspection.

RESISTS A CURRENT OF 2 KNOTS

LOCK THE DISTANCE TO THE HULL

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TECHNICAL SPECIFICATIONS

ROV CAPABILITIES	
Dimensions	54cm x 44cm x 24cm // 21in x 17in x 9.5in
Buoyancy	Slightly positive underwater - adjustable
Weight	10 kg / 22 lbs with a L battery
30° forward & lateral speed	2.1 kt / 1.5 kt // 1 m/s / 0.52 m/s
60° forward & lateral speed	1.5 kt / 2.1 kt // 0.52 m/s / 1 m/s
Maximum depth	100 m / 330 ft
Battery runtime	1h30 - upgradabeable to 4hrs
Tether length	100m - upgradeable up to 200m
Lighting	Built-in LEDs 2 x 1000 Lumens - upgradeable
Ancillary mounts	Ball mounts / 2kg payload
CAMERA	
Sensor	1/2.8" CMOS Sony IMX290 low light Sensor
Video resolution	Full HD 1080p - 30 fps - 80° inwater Field of View
INTERNAL SENSORS	
Depth Sensor (m or ft) // Internal temperature // GPS // 9-Axis IMU	
SEASAM CONTROL APPLICATION	
Navigation assistance	Smart compass // Depth - heading - pitch indicators // Locational map // System status indicators
Survey features	3 speeds - Turbo mode // Lateral gliding // Hull position widget (manual + auto) // POI flagging
DVL	**Wall servoing**, Distance min 30cm vs 1.2m for Seasam / Servoying available in yaw and pitch also vs only distance for Seasam // **Freeze feature**, stay at a specific position in front of the hull // **Dead reckoning** the distance travelled along the hull.
Other features	Sensors data display // Speed and interface customisation // File sharing // Live streaming // Delair Cloud integration

INTEGRATED 3rd PARTY ACCESSORIES

- Multibeam sonar
- Gripper arm
- Additional / turbidity camera
- External lighting

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http://www.delairmarine.com/