



LIGHTFISH SECURITY

High-endurance, low-logistics platforms for maritime domain awareness.



Persistent •

Multi-month endurance enables 24/7 maritime domain awareness around borders, ports, and offshore infrastructure.

Ocean-Proven

Ruggedized and self-righting, with operations demonstrated to Sea State 6+. Redundant comms for global reliability.

Portable

Man-portable platform can be launched directly from beach, ramp, or pier. No ITAR export restrictions.

Modular •

 Modular open system architecture for rapid hardware/software integrations.
Interoperable with various C2 systems.







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TECHNICAL SPECIFICATIONS

Additional Options Available

01	
Size and Weight	
Length and Width	11.4 ft x 3.4 ft (3.5 m x 1 m)
Draft	2.6 ft (0.79 m)
Weight	367 lbs (166 kg). Lifting hardpoint at
	CG.
Hull	Composite hull with retractable keel
	for transportation/storage.
Speed	4.5 kts sprint; 2 kts cruise
Range	Up to 6 months; 6000+ nm
Sea State	Fully self-righting; operational to
	Beaufort 6+ (12 ft waves)
Security Configuration	n Payloads
Radar	Furuno DRS2D-NXT
EO/IR Camera	Marinized panning camera with
	visual and FLIR BOSON IR cameras
High-Bandwidth	Starlink Mini
Communications	
Energy	
Solar & Battery	415 W nominal panel capacity; 4kWh
,	Li-ion battery
Supplemental Fuel Cell	Built in methanol fuel cell provides
	~100W boost on demand
Propulsion	
Electric Drive	Torgeedo 1103 with weedless prop.
EROCHO DIIVO	Comparable to 3HP outboard.
Communications	comparable to 3111 outboard.
Standard	LTE, Iridium SBD, Iridium Certus
Optional Add-Ons:	MANET radios
Navigation and Sensin	g
Standard Sensors	5x onboard HD cameras, GNSS/GPS,
	IMU, compass, 2D LiDAR, AIS
	send/receive, tricolor navigation light.
Collision Avoidance	Automated AIS sense and avoid plus
	LiDAR object detection
Onboard Computing	
Vehicle Compute Stack	Seasats compute unit governs
,	mission navigation, image processing,
	and collision avoidance. Linux OS.

Payload Placement Opt	ions
Payload Connections	Three (3) physical connection ports
	supporting RS232, RS485, and
	ethernet.
Payload Power	5-28V configurable; 20-30W steady
	state; bursts to 300+ W
Default Mounting Points	Internal bay (4,700 in3, up to 66 lb),
	forward mast, rear mast
Software	
Seasats Operating System	Browser-based, MOSA-compliant
	control suite. Annual and perpetual
	licenses available; customer-hosted
	instance of control suite also
	available.
Software Developer	Documentation for operating
Kit / ICD	payloads via the Lightfish's systems.
	APIs for backseat drivers and
	3rd-party command and control.
Auxiliary Gear	
Tablet	Dell Latitude 7230, ruggedized for
	field use.
Remote Control	Intuitive joystick controller for ease
	of launch and recovery
Lightfish Dolly	Suitable for transporting Lightfish
	and launching from boat ramps. Legs
	adjustable for easy payload access
	and removeable for transport in
	pickup truck, van, or crate.
Spare Parts Kit	Includes vehicle key, forward mast
oparo i arto ita	
oparo ranto rat	lower tube, motor pod, spare
Sparo Farto Itt	lower tube, motor pod, spare propeller, bilge pump, rudder servo,
Sparo Faro Al	, , ,
	propeller, bilge pump, rudder servo,
Generator Fuel	propeller, bilge pump, rudder servo, fiberglass repair supplies, and solar



