

# UNMANNED SURFACE VEHICLE

Enabling Safer, Smarter Marine Operations



# AUTONOMOUS CAPABILITIES

## AUTONOMOUS ELECTRONICS & SENSORS

- Global Positioning System (GPS) / Automatic Identification System (AIS) / Inertial Navigation System (INS)
- 225° vision cameras
- Navigation Radar (3 feet)

## NAVIGATIONAL INTELLIGENCE SYSTEM

- Dual-bus Architecture for High Availability (option)
- Hot Standby in Master / Slave Configuration (option)
- Perception Sensor Fusion System
- Guidance & Control System
- Reactive Obstacle Encounter Processing & Obstacle Avoidance System

## SHORE CONTROL

- Mission Planning
- Rate-based steering commands for payloads and vehicle
- Goal-based Vehicular & Payload Control
- Immediate man-take-over control of vessel

## COMMUNICATIONS

- Supports commercial LOS point-to-point communications infrastructure
- Supports commercial relay architecture



### VESSEL INFORMATION

Type of Ship	USV
Length Overall	9.00 m
Length Water Line	9.95 m
Beam	2.40 m
Draft	0.45 m
Main Engine	1 x 425 BHp
Propulsion System	Waterjet
Builder	Tesco Indomaritim

### PAYLOADS

LRAD
Search Light
Electro-Optics
360 Vision Cameras
Radar

### OTHER APPLICATIONS

Harbour Security
Illegal Fishing Enforcement

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