



Phýlax-ISR®

AI-Driven Awareness.
Real-Time Control.

Intelligence, Surveillance,
and Reconnaissance



Stingray Tec

Military Precision. Tactical Agility.

We engineer mission-ready systems that strengthen command, safeguard sovereignty, and empower defence forces across every domain.

Stingray Tec is a trusted technology partner to armed forces. With over two decades of experience across land, air, sea, and cyber, we develop state-of-the-art systems that enhance situational awareness, accelerate decision-making, and deliver operational superiority in high-stakes environments.

Our legacy builds upon resilient defence platforms, intelligent command systems, and integrated weapon solutions – engineered for precision, reliability, and control.



Intelligence That Commands Precision

Phýlax-ISR

Phýlax-ISR is an advanced, multi-domain Intelligence, Surveillance, and Reconnaissance platform engineered for maritime, land, and airborne operations. It serves as the eyes and ears of modern defence — enabling commanders to detect, analyse, and respond to evolving threats with clarity and speed.

Powered by AI and multi-sensor fusion, Phýlax-ISR integrates radar, EO/IR, AIS, SIGINT, and satellite inputs into a single intelligent picture. It delivers real-time situational awareness, predictive intelligence, and precise threat evaluation — transforming information into tactical advantage.

Purpose-built for mission-critical environments, Phýlax-ISR converts complex sensor data into actionable intelligence — empowering forces to detect, decide, and dominate across every domain of operation.

KEY CAPABILITIES

- Multi-Domain Sensor Fusion
- Target Detection & Classification
- AI-Based Anomaly Detection
- Maritime & Border Surveillance
- Real-Time Threat Analysis
- Predictive Intelligence & Forecasting
- Dark Activity Monitoring
- Tactical Recording & Replay
- Role-Based Access Control (RBAC)
- Mission Planning & Execution
- Full ISR Cycle Support
- 2D / 3D Geospatial View

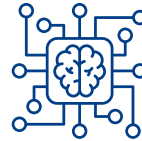


MULTI-DOMAIN
SENSORS



GLOBAL
CONNECTIVITY

HUMAN-IN-
COMMAND



AI-POWERED
INTELLIGENCE

GENERAL FEATURES

- Modular & Scalable Software and Hardware Architecture
- Dual-Redundant Tactical Network
- Seamless Integration with Allied Systems
- Intuitive, Operator-Centric HMI
- High Reliability with Low Maintenance Footprint
- MIL-STD & STANAG-Compliant Framework
- Secure Communication and Encrypted Storage

ENHANCED TECHNOLOGY

Operable across multi-domain environments, Phýlax-ISR unifies data collection, processing, and dissemination – both in real time and offline – to deliver uninterrupted situational awareness.

It enables rapid threat identification, predictive monitoring, and mission coordination, ensuring decision superiority and operational efficiency across every scenario.

SENSOR & WEAPON INTEGRATION

- Aggregates and fuses inputs from Radar, EO/IR, AIS, SIGINT, and Satellite sources.
- Provides unified tracking and real-time target correlation.
- Automates anomaly and threat detection using AI-driven analytics.
- Delivers situational overlays for maritime, air, and land surveillance.
- Supports timely, accurate, and informed decision-making.

HARDWARE COMPONENTS

- Software-Defined Data Centre (SDDC)
- Multi-Sensor Data Processing Servers
- Integrated Operator & Analysis Consoles
- Video & Image Processing Units
- Sensor Fusion Server

- Mission Data Recorder
- Video Wall Display System
- Network Communication Gateway
- Redundant Power & Control Cabinets

TECHNOLOGY IN ACTION



MULTI-SENSOR FUSION

Combines sensors into one real-time view.



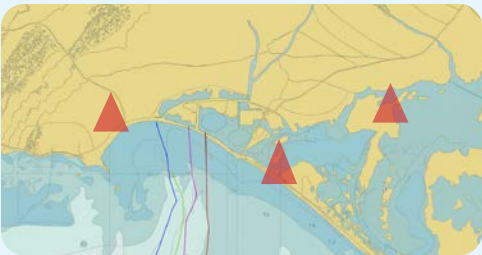
ANOMLY DETECTION

Reveals hidden or AIS-silent vessels.



DARK VESSEL DETECTION

Spots irregular activity instantly.



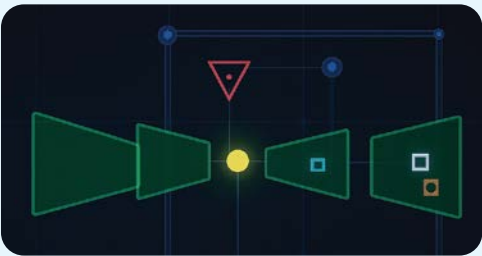
SMART ALERT / FILTERS

Highlights what matters. Filters the rest.



3D MAPS

Visualises terrain for mission clarity.



AI THREAT ANALYTICS

Predicts threats before they unfold.

Stingray Technologies (Pvt.) Ltd.

Third Floor, PMSTP, Bahria University
National Stadium, Karachi 75260

T +92 213 340 2959-61

F +92 213 340 2950

info@stingraytec.com

stingraytec.com

