


mCOAST

Advanced Maritime
Surveillance & Border
Security



Solution Brief

PROTECT YOUR COASTLINE WITH MPREST'S MCOAST

mPrest's mCOAST Coastal Surveillance System (CSS) offers a comprehensive solution for protecting borders and Exclusive Economic Zones (EEZ), securing maritime environments, defending vital offshore assets, and ensuring the safety of people and the environment.

COMPREHENSIVE COASTAL SURVEILLANCE SYSTEM

System of Systems Integration

mCOAST integrates both new and legacy surveillance technologies—fixed or mobile—into a cohesive system. mPrest's software infrastructure ensures seamless integration, providing enhanced maritime situational awareness.

Hierarchical Command Centers

mCOAST's command centers are scalable, from local sites to nationwide coverage. The system supports a hierarchical architecture that effectively manages complex surveillance operations.

Advanced Sensor Deployment

Sensor stations equipped with Coastal Surveillance RADAR, Long-Range Electro-Optic Sensors, AIS receivers and Radio Direction Finder (RDF) provide real-time data to the command center. These stations can be operated locally or remotely, offering flexibility to adapt to changing security needs.

Unified Tactical Picture through Data Fusion

The Data Fusion Module collects and processes data from various sensors, creating a unified tactical picture displayed on a Geographic Information System (GIS) tool. This enables operators to monitor critical areas, track and identify potential threats, and respond effectively.

Real-Time Rule-Based Automation

mCOAST features a rule-based tool that allows operators to define and adjust rules in real-time. Advanced algorithms analyze track behaviors, allocate the best optical sensors, generate alerts, and automate responses.

Debriefing & Training

mCOAST supports full data recording for debriefing and analysis, along with embedded training capabilities to ensure preparedness for any scenario.

Interoperability & Integration

mCOAST can be integrated with various systems, including Vessel Traffic Services (VTS) and other C4I systems. Additionally, mCOAST can share information with the navy / coastguard fleet using tactical datalinks.

Scalable and Future-Proof







mCOAST is designed to grow with evolving needs and technologies, ensuring long-term protection.



WHY MPREST DEFENSE?

Known for the Iron Dome C4i, mPrest's defense combat proven solutions excel in collecting and analyzing complex, dynamic scenarios to deliver real-time operational actions against immediate threats. mPrest Defense C4i systems offer comprehensive Military Command and Control capabilities, supporting mission planning and execution with real-time integration of tactical information from sensors across air, sea, and land domains. **These systems, built on an open, modular architecture, enhance operational efficiency and support decision-making processes.**

mPREST BENEFITS

-  Open architecture system tailored to meet customer needs
-  Auto / semi-auto operations with intuitive GUI
-  Continuous 24/7 monitoring and recording
-  Ongoing development and integration of new features
-  Scalable software capable of managing complex, multi-site systems (nationwide solutions)
-  Flexible integration with third-party software and hardware