



Skua Detect, Identify, and Monitors Potential Threats

The ability to detect, identify, and monitor potential threats is a ship's best defense. Skua employs 360 degree, wide area persistent surveillance and a high resolution spotter camera to protect ships and guard against seaborne attacks from fast-moving targets. Skua detects crafts from as far as 10 km, while the spotter camera enables operators to classify and obtain positive ID on approach.

Today's Ships are Vulnerable to Seaborne Attacks

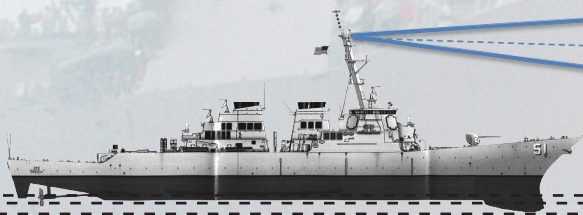
Ships deployed overseas are often targets for seaborne attacks from small craft carrying armed soldiers or pirates. A rigid hull inflatable boat (RHIB) or fast attack craft, individually or using swarm tactics, can approach at speeds of 75 kilometers per hour (kph). The first crucial step in protecting a ship is the ability to detect an approaching craft from enough distance to allow for an appropriate response. Identifying and tracking multiple boats enables a ship's operators to collect the data necessary to determine action. Detection, identification, and response are critical to defending ships at sea.

Skua Provides 24-Hour Persistent Surveillance to Detect Fast-Moving Boats

The Skua Ship Protection system provides the high performance technology necessary to automatically scan the horizon, alerting the operators so that they can effectively evaluate risks and take action – all before a small, high-speed vessel can enter a ship's stand off or engagement zones. Skua continuously spins two pods, each with wide area cameras (midwave IR/MWIR and longwave IR/LWIR) and back-scanning mirrors, which combine imagery for detection and tracking and relay detected target coordinates to a high resolution spotter. The spotter camera receives coordinates from the wide-area sensor and pans, tilts, zooms, and focuses for high resolution imagery of the target or multiple targets. Targets are then tracked and monitored in near real-time. Data collected through tracking or as a result of a decision to fire can later be used for forensic analysis. Skua is a technologically advanced surveillance system that can be customized and rapidly deployed to reliably defend ships operating in hostile seas.

Capabilities

- Horizon search sensors continually collect 360 degree field of vision imagery
- Wide-area surveillance system detects and tracks small boats at 10 km
- High resolution spotter camera identifies crafts, gathers information, and calculates range
- Boats/crafts are assigned unique track IDs, which can be reviewed. Tracking mitigates false alarms caused by birds, whitecaps, buoys, etc.
- LWIR sensor overcomes sun glint clutter
- Supports multiple users
- Installation on yardarm maximizes range and atmospheric seeing
- Two sensors, search and dwell, overcome mast obstruction
- Only connections to system are power and fiber



Attacking Zodiac at 10km

Skua
Maritime Protection

Defending Ships against
Go-Fast Boat Threats



About Logos Technologies

Logos Technologies LLC is a diversified science, technology, operations, and defense company that delivers innovative, mission-critical solutions. Core competencies include: sensor systems, large data management, advanced analytics, cyber operations, platform development, and bio-based chemicals. Customers include government agencies and commercial companies.

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