

Lookout +

Never blinks. Never sleeps. Never loses concentration.

The Lookout+ system is an advanced optical radar that boosts spatial awareness and perception. It provides real-time detection, classification, and tracking of vessels, objects of interest, and hazards.

Using machine learning, Lookout+ processes data from optical, thermal, and IR sensors, fusing with RADAR and AIS targets when possible, for accurate range and bearing estimates, supporting remote and over-the-horizon operations.



Human Lookout

- Ⓢ **Effective Field of View:** Limited to 45° (12.5% of surroundings)
- Ⓢ **Blind Spots:** 87.5% of surroundings go unnoticed
- Ⓢ **Focus Duration:** Objects become indistinguishable from the ocean after 30 minutes of continuous focus
- Ⓢ **Limitations:** Suffers from fatigue and reduced effectiveness over time

Lookout+

- Ⓢ **Effective Field of View:** Full 360° coverage, 24 hours a day
- Ⓢ **No Blind Spots:** Constant monitoring with no gaps in awareness
- Ⓢ **Endurance:** Maintains consistent detection and classification without fatigue
- Ⓢ **Enhanced Awareness:** Provides 87.5% better situational awareness than a single human lookout

ACCURATE LOCATION TRACKING

Provides precise relative location, range, and bearing of maritime targets

HARDWARE AGNOSTIC

Install on any new or existing camera on your vessel

REMOTE MONITORING

Access Lookout+ video stream on any device, from anywhere, for constant real-time supervision.

GEOLOCATION TRACKING

Geo-location of detections enables precise tracking, with data output formatted for seamless integration into autonomous navigation systems.

DESIGNED FOR ISR

Enhance ISR capability with persistent, lean crewed surveillance ensuring consistently high levels of security assurance.

FUTURE-PROOF

Built on a modular framework to ensure maritime superiority with the latest RASAI advancements and continuously updated machine learning models for enhanced detection and classification.

Reduce Personnel Risk

Ensure confidence and assurance by using passive optical radar to catch what radar, AIS, and humans can't see or haven't noticed—reducing the likelihood of collisions while easing physical and cognitive strain on human watchkeepers.



Do More With Less

Maximize asset utilisation and achieve force multiplication by facilitating lean crewing operations, unlocking stranded assets without the need for additional crew.



Plug and Play

The only hardware-agnostic system that integrates with your sensors, offering continual improvement through updated models—never sleeping, never blinking, and providing freedom in camera choice, vessel type, and operational purpose.

