



YOUR MISSION, OUR TARGET



SURVEILLANCE AND SECURITY

Naval | Vehicular

ESPY

ADVANCED STABILIZED ELECTRO-OPTICAL SYSTEM

ESPY is a cutting-edge solution in surveillance and targeting technology, meticulously designed to deliver superior performance across a range of demanding operational environments. **Available in three diameters 12, 15, and 18 inches, ESPY** combines state-of-art **optics, stabilization, and multisensory payload** capabilities to provide unmatched situational awareness and target acquisition accuracy. Engineered for **day and night operations, ESPY** integrates **high-resolution cameras** and **sophisticated tracking systems**. Its rugged, lightweight design

ensures easy deployment on **naval vessels** and **vehicular setups**. With features like microrad-scale stabilization and advanced infrared imaging, **ESPY** sets a new standard in electro-optical systems.

Whether used for **search and rescue operations, or surveillance at sea, ESPY** offers a reliable and robust solution for safety and security needs. Its **seamless integration with third-party navigation systems** further enhances its operational efficiency, making it an indispensable asset for various applications.

KEY STRENGTHS

High-Resolution Day Camera (HD DLTV):

Delivers crystal-clear images and videos for precise target identification.

Infrared and other cameras:

Features, LWIR, MWIR, SWIR, multiband night camera configuration, enhancing thermal imaging and providing superior visibility in lowlight environments.

Simultaneous and Independent Visualization:

Allows simultaneous multiband visualtization to enhance situational awareness.

Microrad-Scale Stabilization:

Ensures exceptional stability for clear and steady imaging.

Advanced Tracking:

Features advanced tracking algorithms allowing multitasking of surface and low flying objects

Multisensory Payload (LRU):

Removable and designed with Plug & Play functionality for easy servicing and integration.

Rugged, Marinized, Lightweight Design:

Built to withstand harsh environmental conditions, suitable for maritime and rugged terrain operations.

Slew-to-cue:

Capable of acquiring and tracking targets detected by onboard navigation radars.



ESPY
18 inches

ESPY
15 inches

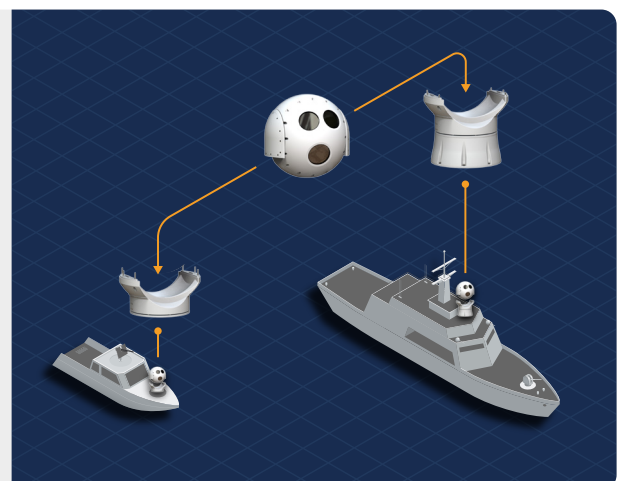
ESPY
12 inches

MULTIMISSION & MULTIPLATFORM

ESPY is the line of stabilized optical gimbal designed for mission critical operations, when safety and effectiveness can not be negotiated.

Replacement in less than 5 minutes

The ICS unique ESPY design allows ease of service. Whenever necessary, the electro-optical payload can be promptly replaced (less than 5 minutes). No alignments or re-calibration to be performed after servicing.



ESPY HMI



MULTI-VIDEO PRESENTATION

Offers flexible display options for optimized presentation of multiple HD video streams.



AUGMENTED REALITY

The system show, next to the vessels, the AIS information relating to them.



ARTIFICIAL INTELLIGENCE (Optional)

AI-driven system specialized in the detection and automatic recognition of various categories of objects within the maritime domain, such as ships, small boats, and unmanned aerial vehicles (UAVs). By incorporating cutting-edge deep learning algorithms, the system can accurately identify and categorize potential threats, significantly improving response strategies and overall maritime security.



ENHANCED AIR TRACKING

Video tracker uses advanced algorithm to track objects when there are no background features.



EMBEDDED VIDEO TRACKER

The tracking capabilities allows the automatic following of moving targets.

APPLICATIONS



Search and Rescue (SAR):

Enhances the ability to locate and identify distressed vessels or individuals in the water.



Oil-Spill Detection & Monitoring:

Detects and monitors oil spills to support environmental protection efforts.



Maritime Police:

Supports law enforcement activities at sea with reliable surveillance and target tracking.



Vehicle-Mounted Surveillance:

Enhances mobile surveillance capabilities, allowing for flexible and dynamic monitoring of various terrains and environments.



High-Speed Craft:

Provides stable and clear imaging even on fast-moving vessels, ensuring accurate monitoring.

INTEGRATED LOGISTIC SUPPORT



Longevity, Reliability, Remote Support

To **enhance efficiency** and **reduce costs**, our systems offer **full remote access** for **direct transmission of diagnostic logs**, minimizing onsite visits, reducing **operational expenses**, and improving turnaround times. Our Service Level Agreement (**SLA**) ensures this **efficient support**. Each Line Replaceable Unit (**LRU**) has a **QR code for quick information access**, improving communication and service responsiveness.



Client-Centric Support

We prioritize client support throughout the entire process. Our technical team conducts **on-site system commissioning**, including **standalone** and **live tests** in various environmental conditions alongside cooperating vessels. Comprehensive **technical documentation**, structured with DataModules following the **S1000D standard**, accompanies our systems.



After-Sales Services & SLA Options

We offer **after-sales services** such as **installation and maintenance courses**, along with an advanced **ticketing platform** for streamlined communication. Our maintenance services, including preventive, corrective, and **SLA options**, are tailored to meet the specific operational needs of our customers. We have **service centers** strategically located across the globe.



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