

MODULAR IMAGING MAST ATTACK

Versatile, all-weather, day-and-night reconnaissance system for military operations

L3Harris' Modular Imaging Mast Attack is a highly reliable, proven system delivering outstanding imaging capabilities for submarines.

DESCRIPTION

The Modular Imaging Mast Attack features an electro-optical imaging system that captures, transports and processes a wide array of signals across the electromagnetic spectrum, including:

- Visible light (from low-light to direct-sunlight conditions)
- Shortwave infrared (SWIR)
- Omni electronic surveillance measures
- ESM and direction finding (DF)
- GPS/iridium
- Communications antennas (VHF)

The system incorporates an array of state-of-the-art sensors on a single mast. Designed for replacement or upgrade of its sensors, this system includes an ultra-high-definition continuous zoom color camera, a continuous zoom extended resolution visual camera, a continuous zoom high-definition SWIR camera, and an eye-safe laser rangefinder.

L3Harris has deployed its imaging masts world-wide on a variety of ship types, with proven performance and excellent reliability. L3Harris works with our customers to implement configurable sensor solutions to meet the needs of the fleet.



Display imaging console or software development kit can be provided for multi-function consoles.



Inboard electronics unit



FEATURES

- Multi-band optical performance
- Configurable for hull penetrating or non-hull penetrating
- Flexibility for integration with any combat system
- Adaptable for remote control architecture options
- Quick look mode enables rapid, configurable 360° panoramic view
- Optional 360° real-time situational awareness
- High-resolution color
- Latency <150 m/s
- Same sensor size and height



STANDARD SYSTEM SPECIFICATIONS

Head Diameter	180 mm or 190 mm
Line-of-Sight	3-axis stabilization
Line-of-Sight Azimuths	360° continuous
Line-of-Sight Elevation	>65° range
Field of View HD: Color and ERC	32° x 18° to 1.6° x 0.9° zoom
SWIR	24° x 18° to 1.2° x 0.9° zoom
Color Resolution	3840 x 2160 pixels
Laser Rangefinder	>9 km
Antenna Interface	Pressure-proof blind mate, ESM EW, GPS and COMMs receiver



BENEFITS

- Provides imaging under diverse environmental conditions
- Mast exposure in high threat environments is minimized while obtaining 360° view
- Sensor upgrades do not require redesign of the primary optical path
- Combat management system integration costs are minimized
- Mast raising equipment on existing periscopes can be interfaced with this equipment
- Low profile masthead supports stealthy operations

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1025 W. NASA Boulevard
Melbourne, FL 32919

L3Harris.com