SeaEye-KIRLANGIC
ELECTRO-OPTICAL RECONNAISSANCE AND SURVEILLANCE SYSTEM

- COMPACT AND LIGHT-WEIGHT SYSTEM
- HIGH PERFORMANCE IR CAMERA
- FULL HD DAY TV CAMERA
- OPTIONAL EYE-SAFE LASER RANGE FINDER
- OPTIONAL LASER POINTER
- OPTIONAL GPS RECEIVER
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Applications
- Ships and Fast Boats
- Border/Coastal Surveillance
- Rescue Operations
- Long Range Detection/Recognition/Identification

Main Features
- Compact and Light-Weight System
- High Performance IR Camera
- Full HD (1920x1080) TV Camera
- Eye-Safe Laser Range Finder (Optional)
- Laser Pointer (Optional)
- High Performance GPS Receiver (Optional)
- All-Digital Video Pipeline
- Digital HD Video Output
- Video and System Control over Ethernet
- Analog Video Output Option for Backwards System Compatibility
- Advanced Digital Image Processing
- Automatic Target Tracking (Optional)
- Accurate Target Geo-Location (Optional)
- Determination of Coarse and Speed of Moving Target
- Inertial Measurement Unit (IMU)
- Gyroscopic Stabilization
- Optional Single-LRU System

Technical Specifications

Thermal Camera
- Wavelength: MWIR (3-5 μm)
- HFOV
  - Wide: 22°
  - Medium: 6°
  - Narrow: 2.2°
- Optical Zoom: >10x, Continuous
- Digital Zoom: 2x, 4x
- Sensor Resolution: 640x512

Day TV Camera
- HFOV
  - Super Wide: 63°
  - Wide: 25°
  - Medium: 6°
  - Narrow: 2.3°
- Optical Zoom: 30x, Continuous
- Digital Zoom: 12x, Continuous
- Sensor Resolution: 1920x1080

Laser Range Finder (Optional)
- Wavelength: 1.54μm
- Class: Class I, Eye Safe
- Accuracy: ±5m (±1σ)

Lazer Pointer (Optional)
- Wavelength: 830nm (±5%) (NIR, Compatible with NVG’s)

Electrical Interface
- Power: 24 VDC
- Platform Interface: Ethernet, RS422, NMEA 0183
- External Navigation Interface: RS422
- Video Interface: Ethernet, HD-SDI, PAL

Mechanical Interface
- Weight: < 32 kg
- Size: < 350 mm in diameter, < 450 mm height
- Gimbal FOR
  - Elevation: -60°/+90°
  - Azimuth: 360°, Continuous

Environmental Conditions
- MIL-STD-810G