APPLICATONS
• Maritime
  Reconnaissance,
  Surveillance &
  Target Acquisition
  (RSTA)
• Search & Rescue
• Coastal & Harbor
  Patrol
• Force Protection/
  Counter Terrorism
• Drug Interdiction
• Customs Inspections
• Mine Detection
• Anti-Surface
  Warfare (ASUW)
• Anti-Submarine
  Warfare (ASW)
• Navigation &
  Situational
  Awareness
• Collision Avoidance
• Environmental
  Monitoring
• Vessel Traffic
  Monitoring

LONG-RANGE TWO-SENSOR IMAGER
The fully marinized, gyrostabilized
SeaFLIR II thermal imaging system
maximizes both shipboard and airborne
operations. SeaFLIR II is compact,
extremely rugged, and delivers crisp
long-range infrared (IR) imagery in
a variety of harsh environments.

INCREASED VERSATILITY
SeaFLIR II’s adjustable gimbal
orientation (ball up/ball down) permits
quick cross-decking or roll-on/roll-off
applications between diverse sea,
air and land platforms.

Operator-selectable functions include
a unified IR and CCD zoom capability,
IR cooler-off mode, and the choice of
automatic or manual gyro null. An
optional laser pointer emits a beam
visible with night-vision goggles. For
long-range requirements, SeaFLIR II-C
offers an operator-selectable IR
1.8x optical extender.

ENHANCED OPERABILITY
Ease operator workload with SeaFLIR
II’s ergonomic hand controller, pull-down
menus, on-screen symbology, and multi-
mode autotracking with autoscan. An
on-screen GPS display provides
continuous updates for navigation and
situational reference. The Radar Bearing
Handoff mode enables a seamless
sharing of tracking information between
an installed search radar and SeaFLIR
II’s embedded video autotracker.

ULTRA COMPACT AND LIGHTWEIGHT
With a gimbal weight of 29 lbs
(13.1 kg) and a diameter of just 9 in.
(22.9 cm), SeaFLIR II reduces structural
loading, improves platform stability
and simplifies maintenance operations.

GREATER STANDOFF RANGE
SeaFLIR II delivers clear day/night
imagery at multi-kilometer ranges,
through a variety of obscurants and
in total darkness. The system features
FLIR’s 3-5 μm InSb focal plane array
and a 10:1 continuous zoom optic
with an optional 1.8x extender.

BUILT FOR MARITIME EXTREMES
Offering coverage to the horizon,
SeaFLIR survives Sea-State 5 conditions
and 15-G shocks. Qualified to MIL-
STD-810F, the system withstands
maritime extremes with saltwater-tight
seals, MIL STD cable connectors, special
corrosion-proof coatings and an
internal heating unit.

EXTENSIVELY FIELDED
SeaFLIRs are in use with the US Navy,
Coast Guard, and Military Sealift
Command as well as several European
governments. SeaFLIRs are also in
operation in Asia, South America
and the Middle East. Over 100
SeaFLIRs and its military variants
(AN/KAX-1 and AN/KAX-2) are
currently deployed and operational.
### SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGA Size</td>
<td>9.0&quot; dia. x 14.5&quot; h (22.9 x 36.8 cm)</td>
</tr>
<tr>
<td>SGA Weight</td>
<td>29 lbs (13.1 kg)</td>
</tr>
<tr>
<td>Azimuth/Elevation</td>
<td>360° continuous</td>
</tr>
<tr>
<td>Slew Rate</td>
<td>Variable to 65°/sec</td>
</tr>
<tr>
<td>Control</td>
<td>HCU, serial RS-232/422 digital</td>
</tr>
<tr>
<td>Environmental</td>
<td>MIL-STD-810F &amp; RTCA/DO 160D (EMI)</td>
</tr>
<tr>
<td>Max Air Speed</td>
<td>217 knots</td>
</tr>
<tr>
<td>Maritime Considerations</td>
<td>Sealed housing, HCU and ECU, heated SGA</td>
</tr>
<tr>
<td>Electrical Power</td>
<td>Input voltage: 18 Vdc to 32 Vdc</td>
</tr>
</tbody>
</table>

#### THERMAL IMAGER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>320 x 240 InSb FPA 3.4-5.1 μm</td>
</tr>
<tr>
<td>Video Format</td>
<td>NTSC, PAL or RGB</td>
</tr>
<tr>
<td>Lens System</td>
<td>IR continuous zoom</td>
</tr>
<tr>
<td>Lens Front Coating</td>
<td>Hard carbon A/R coating</td>
</tr>
<tr>
<td>Resolution</td>
<td>1.2 to 0.12 mRad (0.067 mRad for 1.8x)</td>
</tr>
</tbody>
</table>

#### DAYLIGHT IMAGER (SEAFLIR II & SEAFLIR II-C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom CCD Camera</td>
<td>Sony 480P (PAL); EXB-480 (NTSC)</td>
</tr>
<tr>
<td>Imager</td>
<td>Super HAD CCD - 0.25° format</td>
</tr>
<tr>
<td>Video Format</td>
<td>752 x 582 (PAL); 768 x 494 (NTSC)</td>
</tr>
<tr>
<td>Resolution</td>
<td>&gt;470 television lines</td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>18x (digital zoom: 4x)</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>3.0 lux @ f/1.4</td>
</tr>
<tr>
<td>Low-Light Mode</td>
<td>0.02 lux @ f/1.4</td>
</tr>
<tr>
<td>Fields of View</td>
<td>Wide: 48° x 32°</td>
</tr>
<tr>
<td></td>
<td>Narrow: 2.7° x 2.2°</td>
</tr>
<tr>
<td></td>
<td>Narrow (w/E-Zoom 72x): 0.67° x 0.55°</td>
</tr>
</tbody>
</table>

### OPTIONAL CONFIGURATIONS

#### LASER POINTER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Type &amp; Class</td>
<td>LED, Class IIIb</td>
</tr>
<tr>
<td>Wavelength</td>
<td>830 nm</td>
</tr>
</tbody>
</table>

Note: Laser pointer is visible with image-intensified night-vision systems.

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