The SeaFLIR 380-HD provides superior image stabilization, ultra-long range image performance, and true metadata embedded in the digital video. The full HD system is easy to integrate, operating simply as a node on a network and requiring no additional junction boxes. Fully seaworthy and hardened for military vessels, it can operate continuously in all conditions, even when there is no airflow. HD thermal and color imagery in all light conditions provide clear situational awareness 24/7.

Built to MIL-STD-461F, MIL-STD-810G and DO160F standards, SeaFLIR 380-HD is designed for deployment in ISR, EEZ enforcement, maritime SAR, force protection and counter piracy. Optional SWIR payload delivers clear visibility through the marine layer. Multiple laser payloads covertly light up wide areas, point out distant targets to other forces and determine target distance and location. As the world's first full-HD system of its kind, SeaFLIR 380-HD has been battle-tested by forces around the world.

FEATURES

SINGLE LRU HD MULTI-SENSOR
With all-digital, full-HD imaging in a single LRU, it is easy to install and integrate—no junction boxes required.

FULL DIGITAL IMAGE BLENDING
The system combines HD IR with color or SWIR imagery for full spectrum awareness.

DETECT AND TRACK MARITIME TARGETS
120X magnification extends detection range. Laser payloads covertly illuminate and point out targets and determine distance and location.

ALL-WEATHER, SEA-READY
Designed for the maritime environment with seals to prevent water intrusion and provisions for heating and de-icing.

SWIR SENSOR OPTION
Add the optional SWIR imager for better visibility in the maritime environment, where degradation from the marine layer is common.

APPLICATIONS

RECONNAISSANCE
SURVEILLANCE
NAVAL SURFACE WARFARE
FORCE PROTECTION
COUNTER PIRACY/NARCOTICS
## SPECIFICATIONS

### THERMAL IMAGER

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>1280 x 720 InSb MWIR FPA (standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>728/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>Wavelength</td>
<td>3-5 µm response</td>
</tr>
<tr>
<td>FOVs</td>
<td>40° to 0.35° (with standard FPA)</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>120x</td>
</tr>
</tbody>
</table>

### COLOR HIGH DEFINITION CAMERA (OPTIONAL)

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>Color CCD, Progressive scan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>728/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>FOVs</td>
<td>30° to 0.25°</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>120x</td>
</tr>
</tbody>
</table>

### COLOR LOW LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>Color NIR CCD, Progressive Scan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>728/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>FOVs</td>
<td>50° to 2.2°</td>
</tr>
</tbody>
</table>

### SWIR SHORT WAVE IR CAMERA (OPTIONAL)

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>InGaAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>728/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>FOVs</td>
<td>33° to 0.28°</td>
</tr>
</tbody>
</table>

### LASER PAYLOADS (OPTIONAL)

- **Rangefinder**: Up to 30 km, Class 1 (eyesafe), Class 1M over 2Hz
- **Illuminator**: 1 W or 2 W, Class 4
- **Pointer**: 150 mW (Class 3b) or 650 mW (Class 4)

### SYSTEM PERFORMANCE

- **System type**: 4-axis stabilization
- **Az. coverage**: 360° continuous
- **El. coverage**: +30° to -120°
- **Envelope**: 405 KIAS, 0-50,000 ft

### SYSTEM INTERFACES

- **Digital video**: SMPTE 292M, MISB 2016.1, STANAG 4609
- **Analog video**: NTSC/PAL
- **Data and Control**: RS-422, ARINC 429, MIL-STD-1553B, Ethernet
- **Metadata**: MISP ST0601, 0902, 9716, STANAG 4609, SMPTE 291M/RP214

### ENVIRONMENTAL

- **Standards**: MIL-STD-810G, MIL-STD-461F
- **Operating temperature**: -40°C to 55°C

### POWER REQUIREMENTS

- **Voltage**: 22-29 VDC (per MIL-STD-704F)
- **Consumption**: 280 W typ., (336 W max)

### DIMENSIONS, WEIGHT & MOUNTING

- **TFU Weight**: 115 lbs Max
- **Mounting**: Compatible with existing SAFIRE installations

### OTHER OPTIONS & ACCESSORIES

- Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays and Recorders, Moving Map Systems, High-Definition Downlinks, Moving Target Indicator (MTI)