The SeaFLIR 380-HD provides superior image stabilization, ultra-long range imaging 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—and fixed-wing and helicopter operations—it can operate continuously in all conditions—even when there’s no airflow. HD thermal and color imagery in all light conditions provide clear situational awareness 24/7.

Built to MIL-STD-461F and MIL-STD-810E 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, 380-HD has been battle-tested by forces around the world, including the US Navy and Royal Danish Navy.

### FEATURES

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

**FULL DIGITAL IMAGE BLENDING**
The system combines important HD IR, color, or SWIR spectral information for enhanced results—essential in single video channel downlinks.

**ZOOM AND TRACK MARITIME TARGETS**
High 120x-magnification optics extend detection range. Laser payloads covertly illuminate and point out targets, and determine distance and location.

**ALL-WEATHER, SEA-READY**
Designed for 24/7/365 maritime duty, SeaFLIR 380-HD provides ultra-long range target detection, identification, and tracking.

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

### APPLICATIONS

**RECONNAISSANCE**

**SURVEILLANCE**

**MILITARY POLICE SECURITY**

**FORWARD OBSERVATION**

**FORCE PROTECTION**
# Specifications

## Thermal Imager

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor type</td>
<td>640 x 512 InSb MWIR FPA (standard)</td>
</tr>
<tr>
<td></td>
<td>1280 x 720 InSb MWIR FPA (optional)</td>
</tr>
<tr>
<td>Resolution</td>
<td>720/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>Wavelength</td>
<td>3-5 µm response</td>
</tr>
<tr>
<td>FOVs</td>
<td>30° to 0.25° (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>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor type</td>
<td>Color CCD, Progressive scan</td>
</tr>
<tr>
<td>Resolution</td>
<td>720/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>FOVs</td>
<td>29° 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>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor type</td>
<td>Color NIR CCD, Progressive Scan</td>
</tr>
<tr>
<td>Resolution</td>
<td>720/1080 HD and NTSC/PAL</td>
</tr>
<tr>
<td>FOVs</td>
<td>55° to 1.5°</td>
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</table>

## SWIR Short Wave IR Camera (optional)

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<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Sensor type</td>
<td>InGaAs; extended NIR sensitivity optional</td>
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<tr>
<td>Resolution</td>
<td>720/1080 HD and NTSC/PAL</td>
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<tr>
<td>FOVs</td>
<td>28° to 0.25°</td>
</tr>
</tbody>
</table>

## Laser Payloads (optional)

- Rangefinder: Up to 25 km, Class 1 (eyesafe)
- Illuminator: 1 W or 2 W, Class 4
- Pointer: 100 mW, Class 3b
- DIGITAL IMU/GPS+: Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability

## System Performance

- System type: 6 axis stabilization
- Az. coverage: 360° continuous
- El. coverage: +30° to -120°

## System Interfaces

- Digital video: SMPTE 292M/424M
- Analog video: NTSC/PAL
- Data and Control: RS-232, RS-422, ARINC 419/429, MIL-STD-1553B, Ethernet
- Metadata: MISI compliant STD9716 & STD0902.1, STANAG 4608, SMPTE 291M/RP214

## Environmental

- Standards: MIL-STD-810E and MIL-STD-461F
- Operating temperature: -40°C to 55°C

## Power Requirements

- Voltage: 22-29 VDC (per MIL-STD-704E)
- Consumption: 280 W (350 W max)

## Dimensions, Weight & Mounting

- Single LRU: 15.0” x 18.5” (380 mm x 475 mm)
- TFU Weight: <105 lbs (<48 kg)
- 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
- Reg. US Patent 7,474,451 and 7,264,220, other patents pending

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