The SeaFLIR 280-HDEP is a high-performance maritime imaging system designed to identify and track smugglers, terrorists, or any other threat – day and night, and on the roughest seas.

With an all-new TFU design for improved reliability, the SeaFLIR 280-HDEP is ready for any maritime mission scenario. The modular and scalable control electronics unit is capable of hosting high power video processing and trained Convolutional Neural Networks (CNN) from FLIR and third-party solutions. Optional Display Interface Boards (DIB) allow you to play up to six independent video streams, and removable terabyte hard drive w/DVR records up to 80 hours of compressed video and 250 screen captures.

Qualified to MIL-STD-461 and MIL-STD-810, SeaFLIR 280-HDEP is designed for deployment in a variety of ISR, rescue, and interdiction operations. Multiple NIR and SWIR laser illuminator and pointer options light up targets for personnel with night vision capability.

**FEATURES**

**ALL-WEATHER, SEA-READY**
Designed for 24/7/365 maritime duty, SeaFLIR 280-HDEP provides long-range target detection, identification, and tracking.

**MISSION FLEXIBILITY**
SeaFLIR 280-HDEP provides long-range mission support for ISR, interdiction, EEZ constabulary, maritime SAR, covert OPS, man overboard search and track, and disaster recovery.

**RELIABILITY**
Designed to MIL-STDs, brushless high torque motors, robust heat dissipation, power conditioning circuits and high reliability MWIR cooler are some of the notable features of this highly dependable system.

**MODULAR, SCALABLE COMPUTING POWER**
Optional DVR and removable Solid-State Hard Drive. Optional Vision Processor and Graphics Processing Unit provide computing resources and capability to host trained Convolutional Neural Networks (CNN) and other third-party algorithms.

**APPLICATIONS**

**ISR**

**WEAPON CONTROL**

**CUAS/CUSV**

**SECURITY**

**FORCE PROTECTION**

**SEARCH AND RESCUE**
**SPECIFICATIONS**

### Thermal Imager
- **Sensor type**: 1280x720 InSb FPA
- **Wavelength**: 3-5 μm
- **FOVs**: Optical: 40°-2° continuous (20X)
  3X E-Zoom: 0.5°

### Daylight Camera
- **Sensor type**: 1920x1080 CCD
- **FOVs**: Optical: 54.4° to 1.5° (36X effective)
  3X E-Zoom: 0.5°

### Low Light Camera
- **Sensor type**: 1280x720 sCMOS
- **FOVs**: Optical: 52.1° to 1.4° (37X effective)
  3X E-Zoom: 0.5°

### Spotter Scope (Option)
- **Sensor type**: 1920x1080 CCD or 640x480 SWIR
- **FOVs**: CCIR: 28.8°, 4.83°, 0.92°, 0.51° (0.25° w/2X E-Zoom)
  SWIR: 32.8°, 5.32°, 1.01°, 0.56° (0.28° w/2X E-Zoom)

### Laser Payloads
- **Rangefinder (Option)**: Max Range: 30 km
  Classification: Class 1 or Class 1M (10 Hz)
- **Illuminator (Option)**: Power: 1 W or 2 W – NIR or SWIR
  Classification: Class 4
- **Pointer (Option)**: Power: 150 mW
  Classification: Class 3b

### System Performance
- **System type**: Gyro stabilized Turret w/ separate Control Electronics Unit
- **Az. coverage**: 360° continuous

### System Interfaces
- **Digital video**: SMPTE 292M/HDMI/Optional H.264 video over Ethernet (requires Vision Processor) programmable independent video outputs (up to 6 independent video outputs with optional Display Boards)
- **Analog video**: NTSC/PAL
- **Control**: RS‐232, RS‐422
- **Data**: Gig-E, CAN Bus, RS-232, RS-422

### Computing Resources & Processing
- **Vision Processor - COTS COM Express Type 6 form factor (optional)**
- **GPU Co-Processor (optional)**
- **1TB removable hard drive for video storage (snapshot and motion) (optional)**
  Internal 1 channel DVR (optional) (requires Vision Processor Option)

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

### Power Requirements
- **Voltage**: 24VDC
- **Consumption 2**: 296 W/12.4 AMPS typical with platform dynamics, 377W/15.7 AMPS peak
- **Anti-Ice**: Additional 374 W/15.6 AMPS

### Dimensions & Weight
- **TFU size**: 14.25”(d) x 16”(h) [362 x 406mm] cylindrical volume
- **TFU weight**: <= 60.2 lbs (27.3kg) (varies based on payloads)
- **CEU size**: 12.3 w x 14.6 d x 7.3 h (312 x 371 x 185mm)
- **CEU weight**: <= 31 lbs (14.1kg) (varies based on payloads)

### Other Options & Accessories
- Displays, video processing algorithms

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**AMERICAS**
- **FLIR Systems, Inc.**
  Corporate Headquarters
  27700 SW Parkway Ave
  Wilsonville, OR 97070
  Office: +1 877.773.3547
- **FLIR Systems, Inc.**
  DC Headquarters
  1201 S. Joyce Street
  Suite C006
  Arlington, VA 22202
  Office: +1 703.682.3400

**EUROPE**
- **FLIR Systems**
  2 Kings Hill Avenue - Kings Hill West Malling, Kent ME19 4AQ
  United Kingdom
  Office: +44 (0)1732 220 011
  Fax: +44 (0)1732 843 707
- **FLIR Systems AB**
  Antennvägen 6
  SE-187 66 Täby
  Sweden
  Office: +46 (0)8 753 25 00

**MIDDLE EAST**
- **FLIR Systems B.V. - Abu Dhabi**
  Wadi Al Fey St.
  Building 60, Office # 302
  New Ministries Exit / Khalifa Park Area
  Abu Dhabi, U.A.E.
  Office: +971 2 666 1561
  e-Fax: +1 503 914 1591
- **FLIR Systems Saudi Arabia**
  Office 127, First Floor
  Akaria Plaza Building, Olaya Street
  Riyadh, 11481, Saudi Arabia
  Office: +966 11 464 5323
  Fax: +966 11 464 0438

**ASIA**
- **FLIR Systems Japan K.K.**
  Meguro Tokyu Bldg. 5F
  2-13-17 Kami-Osaki, Shinagawa-ku.
  Tokyo, 141-0021, Japan
  Office: +81-3-6721-6648

For More Information contact surveillance_sales@flir.com

www.flir.com
NASDAQ: FLIR

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