With thousands of systems fielded, the FLIR Star SAFIRE III provides extremely reliable high performance. Along with superior image stabilization and long-range imaging, Star SAFIRE III features internal navigation for precise targeting, a MWIR thermal imager, optional EO color and low-light cameras, and multiple laser payload options. The system is fully hardened for military fixed-wing and helicopter operations, and it operates continuously in all conditions – even while sitting on the tarmac with no airflow.

Multiple sensors allow the Star SAFIRE III to detect, recognize, and positively identify targets with pinpoint precision at long ranges – capabilities that have been proven time and again on the battlefield. Mission crews can remain undetected at safe standoff distances while viewing high-resolution imagery in narrow and wide fields-of-view. With flexible integration options on multiple platforms, the Star SAFIRE III is optimal for program-centric airborne intelligence, surveillance, reconnaissance, patrol, and search and rescue missions.

**FEATURES**

**OPTIMIZED USABILITY**
View and track ground locations using the fully-embedded IMU; follow moving targets with the multi-mode Autotracker.

**MULTI-MISSION CAPABLE**
Can be used in applications as diverse as land force protection, shipboard open ocean and littoral patrol, and long-range airborne reconnaissance.

**IMAGE BLENDING**
Combine critical spectral information from the IR imager with the Image Intensified Low-Light camera or long-range Spotter Scope.

**PRECISION TARGETING**
Tightly coupled navigation delivers accurate, robust CAT 1 target coordinate-generation for faster, more confident targeting.

**RELIABLE 24/7 OPERATION**
Mature product with high MTBF and proven combat survivability in demanding arctic and desert environments.

**APPLICATIONS**

**SEARCH & RESCUE**

**RECONNAISSANCE**

**BORDER AND COASTAL PATROL**

**TARGET IDENTIFICATION**

**FORCE PROTECTION**

**UAV PLATFORMS**
### SPECIFICATIONS

#### THERMAL IMAGER
- Sensor type: 640 x 512 InSb focal plane array
- Wavelength: 3-5 μm response
- FOVs: 25° to 0.35°
- Zoom ratio: 71x

#### COLOR ZOOM CAMERA (OPTIONAL)
- Sensor type: Color CCD-TV
- Resolution: 325 / 625 line (NTSC/PAL)
- FOVs: 28° to 2.7°
- Zoom ratio: 18x (+12x E-Zoom)

#### SPOTTER SCOPE (OPTIONAL)
- Sensor type: 3-chip Color CCD
- Resolution: 800 line
- FOVs: 5.4° to 0.29°
  (Matched to IR FOVs)

#### LOW-LIGHT CAMERA (OPTIONAL)
- Sensor type: Image intensified
- FOVs: 5.4° to 0.7°
  (Matched to IR FOVs)

#### LASER PAYLOADS (OPTIONAL)
- Rangefinder: Max. range 25 km +/-5 m
  Classification: Class 1 (eyesafe)
- Illuminator: Power: 1 W or 2 W options
  Classification: Class 4
- Pointer: Power: 100 mW
  Classification: Class 3b

#### DIGITAL IMU/GPS+ (OPTIONAL)
- Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location
- System type: 5 axis stabilization
- A.z. coverage: 360° continuous
- El. coverage: +30° to -120°
- Airspeed: 405 KIAS
- Standards: MIL-STD-810E and MIL-STD-461F
- Operating temperature: -40°C to 55°C

#### SYSTEM PERFORMANCE
- System type: 5 axis stabilization
- Voltage: 22-29 VDC (per MIL-STD-704E)
- Consumption: 200 W (650 W max)
- Dimensions, Weight & Mounting
  - TFU Size: 15.0" x 17.5" (380 mm x 450 mm)
  - TFU Weight: <98 lbs (<44 kg)
  - CEU Size: 10.0" x 7.5" x 12.5" (254 mm x 191 mm x 318 mm)
  - CEU Weight: 23.0 lbs (10.4 kg)
  - Mounting: Compatible with Star SAFIRE family
- Other Options & Accessories
  - Automatic Target Tracker, Navigation/Radar Interfaces, Quick-Disconnect Mounts, Displays and Recorders, Moving Map Systems, Video Downlinks

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