

Star SAFIRE LV™

MAST-MOUNTED, LONG RANGE MULTI-SENSOR
THERMAL IMAGING SURVEILLANCE SYSTEM



APPLICATIONS

LOW INTENSITY CONFLICT
ANTI-TERRORISM
FORCE PROTECTION
FIXED AND MOBILE SECURITY
BORDER SURVEILLANCE
COMBAT



Wide FOV



Medium FOV



Narrow FOV (human target at 2.3 km)

FEATURES

High resolution, large format
640 x 480 thermal imager with
powerful zoom optics

Daylight/low-light CCD-TV with
continuous zoom optics

5-axis stability

Laser rangefinder payload

Image blending

High-resolution color spotter

360° field of regard

Reliable 24/7 operation

Commercially developed/ MIL
qualified

Flexible integration

BENEFITS

Delivers unmatched range performance and image quality in total darkness and through battlefield obscurants

Enhances daytime operations with wide fields of view and zoom optics; low-light capability extends operations into dawn and dusk

Patented electro-mechanical design keeps payloads stable for clear viewing regardless of bumpy terrain and vehicle maneuvering

Covertly determine target distance and location

Gather more information about your surroundings through multi-spectral imaging

Extends identification range performance by providing maximum detail from covert stand-off distances

Maintain constant overwatch of troops and vehicles in your area

High MTBF and proven combat survivability in demanding arctic and desert environments

All-weather design is qualified to exceed the most demanding requirements of MIL-STD-810 & 461

System can communicate with a variety of command and control systems, GPS/INS/IMU devices, radar, moving map and searchlight systems for improved mission effectiveness, battlefield management and target hand-off



Star SAFIRE LV™

ENVIRONMENTALLY HARDENED

FLIR has fully sealed the Star SAFIRE LV against blowing sand and dust as well as driving rain. The LV is proven to withstand conditions beyond MIL-spec and has operated on the Southwest Asian battlefields for over 13,500 hours.

TARGET GEO-LOCATION

When equipped with the internal GPS/IMU navigation sub-system, the Star SAFIRE LV can determine and display target geo-location, which can then be transmitted to allied units (via data, video or voice uplink) for intelligence assessment and/or direct action.

IMAGE BLENDING

By overlaying video from the thermal and low-light imagers, system operators can maintain greater situational awareness, gather more information about their surroundings, and react to potential threats before they become active threats.

INSTALLED BASE

FLIR has produced over 50,000 thermal imagers and over 2,500 Star-class products. This is the largest installation base of any company in the world; FLIR's experience is unmatched and ready to work for you.

THERMAL IMAGER

| | |
|-------------|--------------------------------|
| Sensor type | 640x480 InSb focal plane array |
| FOVs | 40° to 0.35° |

COLOR ZOOM CAMERA (OPTION)

| | |
|-------------|--------------|
| Sensor type | Color CCD-TV |
| FOVs | 28° to 2.7° |

SPOTTER SCOPE (OPTION)

| | |
|-------------|------------------|
| Sensor type | 3-chip Color CCD |
| FOVs | 5.4° to 0.29° |

LOW-LIGHT CAMERA (OPTION)

| | |
|-------------|-------------------|
| Sensor type | Image intensified |
| FOVs | 5.4° to 0.7° |

LASER PAYLOADS (OPTIONS)

| | | |
|---------------------------|---|-------------------|
| Rangefinder | Max. range | 25Km +/-5m |
| | Classification | Class 1 (Eyesafe) |
| Illuminator | Power | 1W or 2W options |
| | Classification | Class 4 |
| | Beam Divergence | 1° x 1° |
| Pointer | Power | 100mw |
| | Classification | Class 3b |
| DIGITAL IMU/GPS+ (option) | Tightly-coupled, fully-integrated, IMU & GPS for geo-pointing and target geo-location | |

SYSTEM PERFORMANCE

| | |
|----------------|--------------------------------|
| System type | 5-axis stabilization |
| Az/EI coverage | 360° continuous/+ 120° to -30° |

ENVIRONMENTAL

| | |
|-----------------------|-----------------------------|
| Standards | MIL-STD-810E & MIL-STD-461F |
| Operating temperature | -40°C - 55°C |

DIMENSIONS, WEIGHT & MOUNTING

| | |
|----------|-------------------------------|
| TFU Size | 15" x 19" (38.3 cm x 47.8 cm) |
| Weight | < 110 lbs (< 50kg) |

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