

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

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 and 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



Wide FOV



Medium FOV



Narrow FOV (human target at 2.3 km)



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 640 x 480 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	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+ (option)	Tightly-coupled, fully-integrated, IMU and 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 and MIL-STD-461F
Operating temperature -40°C - 55°C

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 UltraMedia and SAFIRE systems

CORPORATE HEADQUARTERS

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 800.727.3547

BOSTON

FLIR Systems, Inc.
25 Esquire Road
North Billerica, MA 01862
PH: +1 800.464.6372

HUNTSVILLE

FLIR Systems, Inc.
Huntsville, AL USA
PH: +1 256.325.3547

PITTSBURGH

FLIR Systems, Inc.
Freeport, PA USA
PH: +1.724.295.2880

WASHINGTON, D.C.

FLIR Systems, Inc.
2800 Crystal Drive, Suite 330
Arlington, VA 22202 USA
PH: +1 703.416.6666

EUROPE

FLIR Systems Ltd.
West Malling, Kent
United Kingdom
PH: +44.1732.220011

CANADA

FLIR Systems Ltd.
Burlington, ON
Canada
PH: +1 800.613.0507

SWEDEN

FLIR Systems AB
Täby, Sweden
PH: +46.8.753.2500

MIDDLE EAST

FLIR Systems Middle East, FZCO
Dubai Airport Free Zone
PH: +9714.299.6898

www.flir.com/GS



Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. ©2010 FLIR Systems, Inc. Specifications are subject to change. Check website: www.flir.com/GS 06012010

