

# Star SAFIRE® QWIP

THE MULTI-MISSION IMAGING SOLUTION



## APPLICATIONS

SEARCH & RESCUE  
 RECONNAISSANCE  
 BORDER AND COASTAL PATROL  
 TARGET IDENTIFICATION  
 UAVS  
 FORCE PROTECTION

## FEATURES

All digital performance

Long-wave QWIP thermal imager

High-definition IR, Color, and low-light cameras

Long-range telescopes

5 micro-radian stability

Fiber optic or SMPTE-292M

Enhanced standard definition video

Optimized usability

Multiple laser payloads

Maintain SAFIRE-family compatibility

Commercially developed/  
MIL qualified

## BENEFITS

Complete digital architecture provides maximum image clarity, precise system control, and a flexible upgrade path

Provides crisp imagery through total darkness, fog, smoke, dust and many other obscurants

1280x720 resolution significantly improves scene detail and increases identification range

High-magnification optics extend detection range to the horizon without sacrificing wide FOV situational awareness

Patented electro-mechanical design keeps payloads stable for clear viewing during extreme aircraft maneuvers

Direct digital connection enables long-distance remote control and preserves the high-definition imagery critical for detailed viewing and post-processing

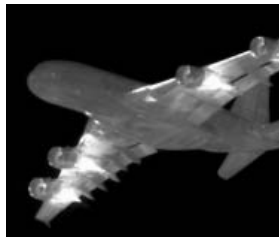
Analog video installations will benefit from HD's high-resolution digital sensors and high-quality optics

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

Covertly illuminate wide areas, point out distant targets to other forces, and determine target distance and location

Total cable compatibility allows operators to upgrade existing SAFIRE-family installations to High-Definition with plug-and-play simplicity

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





# Star SAFIRE® QWIP

## THERMAL IMAGER

Sensor type	640 x 480 QWIP
Resolution	1280 x 720 and NTSC/PAL
Wavelength	8-9µm response
FOVs	20° to 0.46°
Zoom ratio	44X

## COLOR HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Color CCD-TV, Progressive scan
Resolution	1280 x 720 and NTSC/PAL
FOVs	30° to 0.25°
Zoom ratio	120X

## LOW-LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Image intensified
Resolution	1280 x 720 and NTSC/PAL
FOVs	30° to 0.25°
Zoom ratio	120X

## LASER PAYLOADS (OPTIONAL)

Rangefinder	Max. range	25Km +/-5m
	Classification	Class 1 (Eyesafe)
Illuminator	Power	1W or 2W options
	Classification	Class 4
Pointer	Power	100mW
	Classification	Class 3b

## DIGITAL IMU/GPS+ (OPTIONAL)

Tightly-coupled, fully-integrated, IMU & 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°
Stability	<5 µ
Airspeed	405 KIAS

## SYSTEM INTERFACES

Digital video	1394B or SMPTE 292M
Analog video	NTSC/PAL
Control	RS-232, RS-422, Ergonomic Laptop or Hand-held
Data	RS-232, RS-422, ARINC 419/429, MIL-STD-1553B

## ENVIRONMENTAL

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

## POWER REQUIREMENTS

Voltage	22-29 VDC (per MIL-STD-704E)
Consumption	200W (650W max)

## DIMENSIONS, WEIGHT & MOUNTING

TFU Size	15.0" x 17.5" (380mm x 450mm)
TFU Weight	<99 lbs (<45kg)
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

## OTHER OPTIONS & ACCESSORIES

Automatic Target Tracker, Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays & Recorders, Moving Map Systems

## CORPORATE HEADQUARTERS

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

## BOSTON

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

## SANTA BARBARA

FLIR Systems, Inc.  
Indigo Operations  
70 Castilian Dr.  
Goleta, CA 93117  
USA  
PH: +1 888.747.3547

## WASHINGTON, D.C.

FLIR Systems, Inc.  
2345 Crystal Drive  
Suite 300  
Arlington, VA 22202  
USA  
PH: +1 703.416.6666

## EUROPE

FLIR Systems Ltd.  
2 Kings Hill Avenue  
West Malling, Kent  
ME19 4AQ  
United Kingdom  
PH: +44.1732.220011

## CANADA

FLIR Systems Ltd.  
5230 South Service Road  
Suite 125  
Burlington, ON L7L 5K2  
Canada  
PH: +1 800.613.0507

## SWEDEN

FLIR Systems AB  
Rinkebyvagen 19  
P.O. Box 3  
SE-182 11 Danderyd  
Sweden  
PH: +46.8.753.2500

## MIDDLE EAST

FLIR Systems, Inc.  
c/o Middle East Optronics  
FZCO  
Unit C-13  
Dubai Airport Free Zone  
P.O. Box 54262  
Dubai  
United Arab Emirates  
PH: +9714.299.6898

[www.flir.com](http://www.flir.com)

