

Star SAFIRE® QWIP

THE MULTI-MISSION IMAGING SOLUTION



APPLICATIONS

SEARCH & RESCUE

RECONNAISSANCE

BORDER AND COASTAL PATROL

TARGET IDENTIFICATION

UAVs

FORCE PROTECTION

FEATURES

Longwave QWIP thermal imager

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

Long-range telescopes

Advanced programmable hardware

HD-SDI digital output

Enhanced standard definition video

Optimized usability

Multiple laser payloads

Maintain SAFIRE-family compatibility

Commercially developed, MIL qualified

BENEFITS

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

1280 x 720 resolution significantly improves scene detail and increases identification range

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

Software-defined, real-time HD image processing features extract critical image detail, blend sensor imagery and help overcome atmospheric haze

High bandwidth HD-SDI (aka SMPTE-292M) video channels with symbology overlays comply with all government HD standards

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 and 461





Star SAFIRE® QWIP

THERMAL IMAGER

Sensor type	640 x 480 QWIP
Resolution	1280 x 720 and NTSC/PAL
Wavelength	8-9 µm 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	29° to 0.25°
Zoom ratio	120x

LOW-LIGHT HIGH DEFINITION CAMERA (OPTIONAL)

Sensor type	Image intensified
Resolution	1280 x 720 and NTSC/PAL
FOVs	29° to 0.25°
Zoom ratio	120x

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 & 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°
Airspeed	405 KIAS

SYSTEM INTERFACES

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

ENVIRONMENTAL

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

POWER REQUIREMENTS

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	<99 lbs (<45 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

OTHER OPTIONS & ACCESSORIES

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

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