

Star SAFIRE® HD

THE MOST ADVANCED ALL DIGITAL, HIGH-DEFINITION, GYRO-STABILIZED, MULTI-SENSOR IMAGING SYSTEM IN ITS CLASS



APPLICATIONS

ISR
SAR
MARITIME PATROL
BORDER PATROL
UAVs
FORCE PROTECTION

FEATURES

All digital performance

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

120x zoom ratio

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

Megapixel 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 the 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® HD

THERMAL IMAGER

Sensor type	640 x 512 InSb focal plane array
Resolution	1280 x 720 and NTSC/PAL
Wavelength	3-5µm response
FOVs	30° to 0.25°
Zoom ratio	120X

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	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	Beam Divergence	1° x 1°
	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" (380 mm x 450 mm)
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

Long-wave IR (LWIR) imager, Automatic Target Tracker, Navigation/Radar Interfaces, Quick-Disconnect Mounts, High Resolution Displays & Recorders, Moving Map Systems

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