STAR SAFIRE® 380-HDc

SWaP-C Single LRU HD EO/IR Imaging

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION







The Star SAFIRE® 380-HDc delivers unparalleled stabilized HD multi-spectral imaging in a compact, low-profile package. It's designed to maximize ground clearance in rotary aircraft without sacrificing capability and performance. Low power demand of 225W and lighter weight of only 65 lbs (29.5 kg) round out the incomparable SWaP-C advantages. This system also provides 2x-4x greater magnification than other lightweight systems in its class.

The laser pointer and laser illuminator allow operators to covertly "light up" targets or points of interest to coordinating observers wearing night vision goggles or other IR devices. Payload options include a low-light camera, SWIR thermal imager, and laser rangefinder, illuminator and pointer. With continuous zoom on EO and IR sensors for uninterrupted viewing paired with its long DRI range, Star SAFIRE 380-HDc is optimal for airborne reconnaissance, patrol and search and rescue missions.

FEATURES

Size, Weight, Power & cost (SWaP-C) Advantage

At only 65 lbs (29.5 kg), it minimizes balance concerns and maximizes mounting options. Its 14.6" profile supports safer off-field landing. 225W power reduces demand.

Full-HD Imaging

True HD IR and color cameras with continuous zoom capture finest details. Low-light night imaging sensor and SWIR provide full spectral awareness.

Optimized Usability and Compatibility

Simple "power-on and use" operation. Common cable/mount interface adapts to existing SAFIRE installations for upgrades and mixed-fleet operations.

Less Operator Effort Required

Intelligent, automated operation optimizes tracking and continuously indicates size, location, speed, and distance of multiple targets or points of interest.

SPECIFICATIONS

High Definition Thermal Imager	
Sensor type	1280 x 720 InSb MWIR FPA
Resolution	720p/1080p HD and NTSC/PAL
Wavelength	3-5 µm response
FOVs	40° to 2.0° optical continuous zoom
Focal length	25 mm - 500 mm
High Definition Color Camera	
Sensor type	Color CCD
Resolution	720p/1080p HD and NTSC/PAL
FOVs	45° to 2.4° optical continuous zoom, 1.2° with optical extender
Focal length	8.5 mm - 340 mm
Secondary High Definition Color Camera (Optional)	
Sensor type	Color CCD
Resolution	720p/1080p HD and NTSC/PAL
FOVs	25° to 0.4° optical step zoom
Focal length	16.5 mm - 985 mm
Low Light Camera (Optional)	
Sensor type	sCMOS
Resolution	720p/1080p HD and NTSC/PAL
FOVs	52° to 2.8° optical continuous zoom, 1.4° with optical extender
Focal length	8.5 mm - 340 mm
SWIR Short Wave IR Camera (Optional)	
Sensor type	InGaAs progressive global
Resolution	720p/1080p HD and NTSC/PAL
FOVs	30° to 0.5° optical step zoom
Focal length	18 mm - 1100 mm
Laser Payloads (Optional)	
Rangefinder	Up to 30 km, Class 1 (eyesafe), Class 1M over 2Hz
Illuminator	1 W or 2 W, Class 4
Pointer	150 mW (Class 3b) or 650 mW (Class 4)
Geopoint	
Type	Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability
System Performance	
System type	4-axis stabilization
Vibration isolation	6-axis, built-in
Az. coverage	360° continuous
El. coverage	+16° to -100°
Envelope	250 KIAS, 0-50,000 ft

System Interfaces	
Digital video	SMPTE 292M/MISB 2016. 1; STANAG 4609
Analog video	NTSC/PAL
Data and control	RS-422, ARINC 429, MIL-STD-1553B, Ethernet
Metadata	MISP ST0601, 0902, 9716; STANAG 4609; SMPTE 291M / RP214
Environmental	
Standards	MIL-STD-810G and MIL-STD-461F
Operating temperature	-40°C to 55°C
Power Requirements	
Voltage (steady state)	22-29 VDC (per MIL-STD-704F)
Consumption	225 W typ., 336W Max
Dimensions (Diameter & Height), Weight & Mounting	
Single LRU	15.0"x 14.6" (380 mm x 371 mm)
TFU Weight	approx. 65 lbs (29.5 kg)
Mounting	Compatible with existing SAFIRE installations
Other Options & Accessories	
Navigation/Radar Interfaces, Autotracker, Quick-Disconnect Mounts, High Definition Displays and Recorders, Moving Map Systems, High-Definition Downlinks	



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