



## SWAP-C SINGLE LRU HD EO/IR IMAGING

# Star SAFIRE® 380-HDc

The Star SAFIRE® 380-HDc delivers unparalleled stabilized HD multi-spectral imaging and MERLIN® intelligence functions 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 200W and lighter weight of only 67 pounds round out the incomparable SWaP-C advantages. Due to its 1,000mm optics, 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 extreme long DRI range, Star SAFIRE 380-HDc is optimal for airborne reconnaissance, patrol and search and rescue missions.

### FEATURES

#### SIZE, WEIGHT, POWER & CLEARANCE (SWAP-C) ADVANTAGE

At only 67 pounds, it minimizes balance concerns and maximizes mounting options. Its 10" profile supports safer off-field landing. 200W 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 penetrate obscurants.

#### 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.

#### PRECISION TARGETING

Tightly coupled "geopoint" navigation automatically points and steers sensors to track targets even in conditions where GPS coverage is degraded or masked.

#### LESS OPERATOR EFFORT REQUIRED

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

### APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION

## SPECIFICATIONS

### High Definition Thermal Imager

|              |   |
|--------------|---|
| Sensor type  | 1280 x 720 InSb MWIR FPA progressive global (standard)<br>640 x 512 InSb MWIR FPA progressive global (optional) |
| Resolution   | 720p/1080p HD and NTSC/PAL  |
| Wavelength   | 3-5 µm response   |
| FOVs         | 40° to 1.0° continuous zoom (with standard FPA)   |
| Focal length | 25 mm - 500 mm  |

### High Definition Color Camera

|              |                               |
|--------------|-------------------------------|
| Sensor type  | Color CCD, progressive global |
| Resolution   | 720p/1080p HD and NTSC/PAL    |
| FOVs         | 40° to 1.2° continuous zoom   |
| Focal length | 8.5 mm - 340 mm               |

### Secondary High Definition Color Camera (Optional)

|              |                               |
|--------------|-------------------------------|
| Sensor type  | Color CCD, progressive global |
| Resolution   | 720p/1080p HD and NTSC/PAL    |
| FOVs         | 25° to 0.2° step zoom         |
| Focal length | 16.5 mm - 985 mm              |

### Low Light Camera (Optional)

|              |                             |
|--------------|-----------------------------|
| Sensor type  | EMCCD, progressive global   |
| Resolution   | 720p/1080p HD and NTSC/PAL  |
| FOVs         | 40° to 1.2° continuous zoom |
| 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         | 33° to 0.25° step zoom     |
| Focal length | 16.5 mm - 985 mm           |

### Laser Payloads (Optional)

|             |  |
|-------------|--|
| Rangefinder | Up to 30 km, Class 1 (eyesafe)         |
| Illuminator | 1 W or 2 W, Class 4                    |
| Pointer     | 150 mW (Class 3b) or 650 mW (Class 4b) |

### Geopoint

|      |  |
|------|--|
| Type | Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location capability |
|------|--|

### Analytics & Enhancements (Optional)

MERLIN® MTI Fully integrated video Moving Target Indicator, single & dual operating modes for land/SAR/maritime

### 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/424M   |
| Analog video     | NTSC/PAL  |
| Data and control | RS-422, ARINC 419/429, MIL-STD-1553B, Ethernet                                    |
| Metadata         | MISB compliant Motion Imagery & Metadata MISP 2015, STANAG 4609, SMPTE 291M/RP214 |

### 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 | 225 W (350 W max.)           |

### Dimensions (Diameter & Height), Weight & Mounting

|            |   |
|------------|---|
| Single LRU | 15.0" x 13.9" (380 mm x 353 mm)               |
| TFU Weight | approx. 62lbs (28kg)                          |
| 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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