Star SAFIRE® HD

SECOND GENERATION ADVANCEMENT
WORLD’S FIRST AND ONLY FULL HIGH DEFINITION
MULTI-SPECTRAL IMAGING SYSTEM

APPLICATIONS
ISR
SAR
MARITIME PATROL
BORDER PATROL
UAVs
FORCE PROTECTION

FEATURES
- Second generation full-HD
- High definition color in low light
- 120x zoom ratio
- 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
- Full high definition mega-pixel resolution imagery from all sensors for superior range and imaging performance
- Extend full color imaging into the dark with full high definition clarity and with expanded wide dynamic range
- High-magnification optics extend detection range to the horizon without sacrificing wide FOV situational awareness
- 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 the HD’s high-resolution digital sensors and high-quality optics
- View and track ground locations using the embedded, tightly-coupled 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

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THERMAL IMAGER
Sensor type: 640 x 512 InSb focal plane array
Resolution: 720/1080 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: 720/1080 HD and NTSC/PAL
FOVs: 29° to 0.25°
Zoom ratio: 120X

LOW-LIGHT HIGH DEFINITION CAMERA (OPTIONAL)
Sensor type: Color NIR CCD, Progressive scan
Resolution: 720/1080 and NTSC/PAL
FOVs: 55° to 1.5°
Zoom ratio: 36X

LASER PAYLOADS (OPTIONAL)
Rangefinder: Max. range 20Km +/-5m
Classification: Class 1
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: 4 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 Hand-held
Data: RS-232, RS-422, ARINC 418/429, MIL-STD-1553B

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

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

DIMENSIONS, WEIGHTS & 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 existing SAFIRE systems

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

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