Star SAFIRE® III

**APPLICATIONS**
- SEARCH & RESCUE
- RECONNAISSANCE
- BORDER AND COASTAL PATROL
- SURVEILLANCE
- UAVs
- FORCE PROTECTION

**FEATURES**
- Multi-mission capable
- High-resolution color spotter scope
- Matched multi-FOV optics
- Image Intensified low-light camera
- Image blending
- Reliable 24/7 operation
- Optimized usability
- Multiple laser payloads
- Maintain SAFIRE-family compatibility
- Commercially developed, MIL qualified

**BENEFITS**
- Can be used in applications as diverse as land force protection, shipboard open ocean and littoral patrol, and long range airborne reconnaissance
- Extends identification range performance by providing maximum detail from covert stand-off distances
- All cameras feature multiple FOVs maintaining situational awareness while also achieving long range performance and enabling Image Blending
- Brings true all day and all night imaging capability in multiple wavebands, and forms the basis for Image Blending
- Combine critical spectral information from IR imager with Image Intensified Low-Light camera or long range Spotter Scope
- High MTBF and proven combat survivability in demanding arctic and desert environments
- 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 with plug-and-play simplicity
- All-weather design is qualified to the most demanding requirements of MIL-STD-810 and 461

**THE MULTI-MISSION IMAGING SOLUTION**
FOR LAND AND AIR APPLICATIONS
### THERMAL IMAGER
- **Sensor type**: 640 x 512 InSb focal plane array
- **Wavelength**: 3-5 μm response
- **FOVs**: 25° to 0.35° (Matched to IR FOVs)
- **Zoom ratio**: 71x

### COLOR ZOOM CAMERA (OPTIONAL)
- **Sensor type**: Color CCD-CCD
- **Resolution**: 525 / 625 line (NTSC/PAL)
- **FOVs**: 28° to 2.7°
- **Zoom ratio**: 18x (+12x E-Zoom)

### SPOTTER SCOPE (OPTIONAL)
- **Sensor type**: 3-chip Color CCD
- **Resolution**: 800 line
- **FOVs**: 5.4° to 0.29°

### LOW-LIGHT CAMERA (OPTIONAL)
- **Sensor type**: Image intensified
- **FOVs**: 5.4° to 0.7° (Matched to IR FOVs)

### LASER PAYLOADS (OPTIONAL)
- **Max. range**: 25 km +/-5 m
- **Illuminator**
  - **Classification**: Class 1 (eyesafe)
  - **Power**: 1 W or 2 W options
- **Pointer**
  - **Power**: 100 mW
  - **Classification**: Class 3b

### DIGITAL IMU/GPS+ (OPTIONAL)
- Tightly-coupled, fully-integrated, IMU and GPS for geo-pointing and target geo-location

### SYSTEM PERFORMANCE
- **System type**: 5 axis stabilization
- **Az. coverage**: 360° continuous
- **El. coverage**: +30° to -120°
- **Airspeed**: 405 KIAS

### SYSTEM INTERFACES
- **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**: <96 lbs (<44 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, Displays and Recorders, Moving Map Systems, Video Downlinks

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