



SURVEILLANCE SOLUTIONS

Product Overview

SINGLE LRU HD EO/IR IMAGING SYSTEM

STAR SAFIRE 380-HD

The Star SAFIRE 380-HD provides superior image stabilization, ultra-long-range imaging performance, and true metadata embedded in the digital video. Featuring internal navigation for precise targeting, a MWIR thermal imager, optional HD color and lowlight cameras, and multiple laser payload options.

AVAILABLE AS 380X - HD

Features

- High Definition Video
- SWIR/MWIR
- Color EO
- Color EO Spotter Scope
- Moving Target Indicator (MTI)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <100 lbs (45.4 kg)



SWAP-C SINGLE LRU HD EO/IR IMAGING SYSTEM

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.

AVAILABLE AS 380X - HDC

Features

- High Definition Video
- Continuous Zoom SWIR/MWIR
- Continuous Zoom Color EO
- Color EO Spotter Scope
- Low Light EO (EMCCD)
- Moving Target Indicator (MTI)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <65lbs (29.5 kg)



FULL-HD MULTI-SPECTRAL TARGETING SYSTEM

STAR SAFIRE 380-HLD

The Star SAFIRE 380-HLD provides superior image stabilization, ultra long-range imaging performance, and true metadata embedded in digital video, all with laser designation (LD) and rangefinder. The Star SAFIRE 380-HLD also provides the ability to operate continuously in all conditions.

AVAILABLE AS 380X - HLD

Features

- High Definition Video
- SWIR/MWIR
- Color EO
- Color EO Spotter Scope
- Moving Target Indicator (MTI)
- Integrated Video Tracker
- Fully integrated GPS/IMU Target Location
- Laser Designator
- Laser Rangefinder
- Laser Pointer
- Laser Illuminator
- Turret weight <110 lbs (49.9 kg)



LONG RANGE MULTI-SENSOR
GYRO-STABILIZED SURVEILLANCE SYSTEM

ULTRAFORCE 350-HD

With large-gimbal level performance at only 28 kg, the UltraFORCE 350-HD's trusted multi-spectral HD imaging performance is optimized for airborne homeland security, combat, patrol, surveillance, reconnaissance, and search and rescue programs.

Features

- High Definition Video
- Spotter Scope Color EO
- MWIR
- Tightly integrated GPS/IMU Target Location
- Color EO
- Laser Rangefinder



COMPACT MULTI-SENSOR
GYRO-STABILIZED SURVEILLANCE SYSTEM

ULTRAFORCE 275-HD

Extremely low SWaP makes the UltraFORCE 275-HD the optimal choice for weight, power and footprint constrained platforms. The system delivers multi-spectral HD imaging performance for airborne homeland security, combat, patrol, surveillance, reconnaissance, and search and rescue programs.

Features

- High Definition Video
- Spotter Scope Color EO
- MWIR
- Fully integrated GPS/IMU Target Location
- Color EO
- Laser Rangefinder





AIRBORNE SOLUTIONS

STAR SAFIRE® 380X

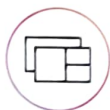
ADVANCED IMAGING IN A SINGLE LRU

The all new, powerful processing of the Star SAFIRE 380X reduces operator workload for faster, smarter decision support and features customizable configurations for multi-tile video management and visual user interface, and touchscreen and streaming tablet support. It also features an integrated moving target indicator (MTI) and de-scintillation filter that removes atmospheric effects to reveal clearer, sharper detail from greater distances.

INTELLIGENT IMAGING

The 380X is a hardware, firmware, and software enhancement to support advanced image aiding features when coupled with our globally renowned Star SAFIRE 380 gimbal systems, including Star SAFIRE 380-HD, 380-HDc, and 380-HLD.

Features



MULTIPLE VIDEO MANAGEMENT

Multi-tile image management allows operators to view multiple video sources simultaneously, including all camera payloads plus external video input.



BETTER CLARITY

See more with de-scintillation filter which can remove atmosphere obscurants to reveal fine details otherwise hard to detect, enabling operators to make faster, smarter decisions.



NEW USER INTERFACE

Navigate menus with customizable icon based graphics (GUI) to expedite inputs when needed.



IMPROVED TARGETING

Moving Target Indicator (MTI) helps identify threats earlier and more definitively. Future enhancement includes augmented reality overlays to identify friendly positions and no fire/restricted fire areas.



AUGMENTED REALITY

AR mapping overlays improve situational awareness depicting mission in the live environment, increasing understanding and expediting better, smarter decisions.



VIRTUAL SYSTEM TRAINING PLATFORM

FLIRSIM is a portable, easy to set up and use, all-inclusive system-level training device that provides the functional equivalency of an FAA FTD level 6 simulator for Star SAFIRE 380 family sensor operators. Developed by MAG Aerospace, FLIRSIM replicates any real-world scenario or environment on demand to improve safety on live missions. Time spent using the FLIRSIM enhances operator mission effectiveness and accomplishment. FLIRSIM delivers direct operational cost savings normally incurred during training.

Features

ACTUAL TELEDYNE FLIR HAND CONTROLLER

- Same Teledyne FLIR Hand controller as found in vessels & aircraft
- Operators form muscle memory on the true button layout

TRANSPORTABLE AND EASY TO USE

- Complete system is self-contained in a rugged case
- Can be checked as luggage without incurring oversized luggage fees
- Easily set up anywhere

DYNAMIC SCENARIO GENERATION

- Able to train in real world environments
- Train where you operate
- Control weather conditions and time of day to immerse and challenge operator



LAND SOLUTIONS RADARS

RANGER® R6SS & R8SS

The mid-range, man-portable Ranger R6SS and R8SS radars detect and track personnel and vehicles within 15km ranges, and detect up to 512 threats simultaneously. Light and small, the R6SS and R8SS fit in a backpack or are easily mounted to a vehicle or permanent structure as part of an integrated solution. With a pan tilt mount, the Ranger panel radars can scan a full 360° every second for complete perimeter security.



RANGER® R8SS-3D

The man-portable Ranger R8SS-3D has the vertical coverage, low minimum detection velocity, and algorithms to detect and track up to 512 threats simultaneously, including drones, while filtering bird detections. The R8SS-3D radar can monitor the coverage area 4x per second, running 24/7, detecting all ground and aerial threats in virtually any climate, day and night. Compact and lightweight, it fits in a backpack, draws only 85W, and can integrate with other sensors, while costing much less than its vehicle-sized counterparts.



RANGER® R20SS & R20SS-3D

The Ranger R20SS is a ground and coastal surveillance radar. Provides fast detection and track initiation resulting in highly accurate target location with a low false alarm rate, and operates in the X-band for all weather operation. The R20SS-3D has vertical coverage, low minimum detection velocity and can monitor the coverage area up to four times per second, running 24/7. Automatic target classification filters out unwanted targets and focuses on potential threats. The new model R20SS-3D-XR detects micro UAS targets up to 3km and more, pedestrians up to 8 km out, and light vehicles up to 15km out.



RANGER® R1, R3, R5, R3D, R5D

These perimeter surveillance radars provide accurate, high-resolution detection of vehicles and personnel in the most demanding environments, with ranges of up to 5km. Scanning as much as a full 360 degrees per second they can effectively monitor up to 78 square kilometers (30 square miles). Features Doppler Staring mode, which significantly increases detection range. Multiple units can be installed with overlapping coverage to protect the larger areas required for border security missions, and are easily networked to form a single integrated system with other sensors and command and control systems.



TACTICAL SOLUTIONS HAND-HELD THERMAL IMAGERS

RECON® V ULTRA LITE

Fully operational at less than three pounds, the Recon V Ultra Lite provides breakthrough capabilities. Featuring tactical range target detection, recognition, recording, Bluetooth and WiFi connectivity, and geo-location with an HD color camera and dual FOV thermal channels. Powered by commercially available AA batteries, the unit has a run time greater than four hours with smart power management. Combined with a highly accurate laser range finder, GPS, digital magnetic compass, ATAK connectivity and intuitive user interface, targets can be quickly located 24/7.



RECON® V

The Recon V is a compact and light yet rugged multi-sensor thermal binocular designed for 24/7 day and night field operations that require enhanced imagery and long standoff range. Its internal GPS, DMC, and long-range laser pointer provide accurate range to target as well as precise location. The 10x continuous zoom optics, MEMS based electronic stabilization, and high-definition color video display combine to provide unmatched image quality.



RECON® B2-F0

The Recon B2-F0 offers long range reconnaissance and target geo-location capability with multiple fields of view, mid-wave, IR sensor, high resolution color camera, 4x continuous zoom, GPS, DMC, laser rangefinder, laser pointer, image storage and download capability. Additional capabilities include remote control, external power input, video options, serial interface and 2.5x extender.



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