ASELFLIR 500

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ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

#ElectroOptics



- COMMON APERTURE WITH PRIMARY MIRROR OF DIAMETER 220 MM
- COMPACT AND LIGHT-WEIGHT SYSTEM
- SINGLE-LRU SYSTEM
- SUPERIOR RANGE PERFORMANCE
- HIGH RESOLUTION IR CAMERA
- TRUE FULL HIGH DEFINITION HD DAY TV CAMERA
- HIGH RESOLUTION SWIR CAMERA
- LASER TARGET DESIGNATION
- INTERNAL BORESIGHT FEATURE
- MULTI TARGET TRACKING
- HIGH PRECISION 4 AXIS MECHANICAL + 2 AXIS OPTICAL STABILIZATION
- OPERATION IN VERY LOW TEMPERATURES AT HIGH ALTITUDES

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ASELFLIR 500 is a high performance electro-optical reconnaissance, surveillance and targeting system in 15 inch gimbal category developed for fixed-wing aerial platforms including unmanned aerial vehicles (UAV), and airplanes.

ASELFLIR 500 system includes 3-5 micrometer High Resolution Infrared Camera, High Resolution Day TV Camera, High Resolution SWIR Camera, Laser Range Finder & Designator, and Laser Point units.

Main Features

- Common Aperture with Diameter of 220 mm
  - Common FOVs for HD IR, HD Day TV and HD SWIR cameras
  - High levels of energy obtained through a large aperture resulting in better image quality and range performance
- Artificial Intelligence Based Image Processing Solutions
- Single-LRU System
- Superior Range Performance
- IR, Day TV, SWIR Cameras with High Resolution Sensors
- Laser Range Finder and Target Designator
- Laser Pointer
- Internal Boresight Feature
- All-Digital Video Pipeline
- Advanced Image Processing
- Multi Target Tracking
- Simultaneous Target Tracking on IR, Day TV and SWIR Videos
- Accurate Target Geo-Location
- Determination of Course and Speed of Moving Target
- Inertial Measurement Unit (IMU)
- Accurate Stabilization
- Automatic Alignment with Platform
- Operation at Very Low Temperatures at High Altitudes

Technical Specifications

Primary Mirror Diameter : 220 mm

HD IR Camera
- Sensor Resolution : 1280x1024
- Field of Views (Horizontal) : 1.3° - 4.3° - 7.7° - 13.9° - 25°
- Wavelength : 3-5 µm (MWIR)

HD Day TV Camera
- Sensor Resolution : 1920x1080
- Field of Views (Horizontal) : 0.5° - 0.9° and continuous zoom in between 2.6° - 24°

HD SWIR Camera
- Sensor Resolution : 1280x1024
- Field of Views (Horizontal) : 0.67° - 1.1°

Field of Regard (FOR)
- Azimuth : 360° continuous
- Elevation : +90° to - 90°

Laser Range Finder and Target Designator
- Wavelength : 1064 nm
- Range : Up to 35 km
- Coding : STANAG 3733 (Edition 3)

Laser Pointer
- Wavelength : 808 nm
- Laser Pointer Wavelength : NIR/SWIR (Compatible with night vision goggles)

Communication Interface : RS-422, MIL-STD-1553B

Video Interface : 4x SMPTE-292M HD-SDI (1920x1080p)

Power Interface : 28 VDC

Size
- Width : 480 mm
- Height : 520 mm (Forward position)

Weight : 54 kg ±%5

Temperature
- Operating : -40°C to +52°C
- Storage : -55°C to +70°C



Specifications are subject to change without any notice. | All tolerances are within ±10%.

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