



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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ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

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 μ m (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 $\pm$ 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 $\pm$ 10%.