ASELFLIR 600

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ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

#ElectroOptics



- COMMON APERTURE WITH PRIMARY MIRROR OF DIAMETER 325 MM
- SUPERIOR RANGE PERFORMANCE
- HIGH DEFINITION (1280x1024) HD TERMAL CAMERA
- HIGH DEFINITION (1920x1080) HD DAY TV CAMERA
- HIGH DEFINITION (1280x1024) HD SWIR CAMERA
- MULTI TARGET TRACKING
- LASER TARGET DESIGNATION
- AUTOMATIC TARGET RECOGNITION (ATR)
- HIGH PRECISION 4 AXIS MECHANICAL + 2 AXIS OPTICAL STABILIZATION
- OPERATION IN VERY LOW TEMPERATURES AT HIGH ALTITUDES

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ASELFLIR 600 is a high performance new generation 25-inch electro-optical reconnaissance, surveillance and targeting system designed for HALE Class fixed wing airborne platforms.

Applications

- Targeting
- Reconnaissance and Surveillance

Main Feautures

- 25-inch Gimbal Diameter
- Common Aperture with Diameter of 325mm, HD IR Camera (MWIR), HD Day TV, HD SWIR Camera
- True "Full High Definition" (1920x1080) HD Day TV Camera with 1920x1080p Video Output
- High Definition HD SWIR Camera
- Laser Spot Tracker (LST)
- Laser Range Finder (LRF)
- Laser Pointer and Illuminator (LPI)
- Superior Range Performance (Longer Range with Larger Optical Aperture)
- Internal Sensor Alignment Unit
- All-Digital Video Pipeline
- Advanced Image Processing
- Multi Target Tracking
- Accurate Target Geo-Location
- 4 Axis Mechanical + 2 Axis Optical Stabilization (Accurate Stabilization)
- Reinforced Mechanical Components
- Improved Thermal Performance
- Automatic Target Recognition (ATR)
- Real Time Target Tracking in HD IR, HD Day TV and HD SWIR Cameras
- Determination of Coarse and Speed of Moving Target
- Inertial Measurement Unit (IMU)
- Automatic Alignment with Platform
- Operation in Very Low Temperatures at High Altitudes

Technical Specifications

Primary Mirror Diameter : 325 mm

HD MWIR Camera

- Sensor Resolution : 1280x1024
- Fields of View (FOVs) (Horizontal) : 0.55°, 0.85°, 2.82°, 4.33°, 8.68°, 21.74°
- Wavelength : MWIR

HD Day TV Camera

- Sensor Resolution : 1920x1080
- Fields of View (FOVs) (Horizontal) : 0.20°, 0.34°, 0.54° 1.51° - 26.38° continuous (Wide)

HD SWIR Camera

- Sensor Resolution : 1280x1024
- Fields of View (FOVs) (Horizontal) : 0.23°, 0.39°, 0.61°

Field of Regard (FOR)

- Azimuth : 360° continuous
- Elevation : +95° to -120°

Laser Range Finder and Target Designator

- Laser Type : Diode pumped ND: YAG
- Wavelength : 1064 nm
- Range : Up to 35
- Coding : STANAG 3733 Band I & II

Laser Pointer

- Wavelength : NIR (Compatible with NVGs)

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

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

Power Interface : 28 VDC

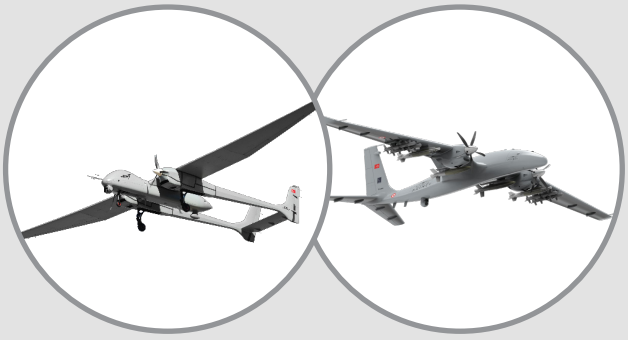
Size

- Width : 655 mm
- Height : 720 mm (Forward position)

Weight : 120 kg ±%10

Temperature

- Operating : -55°C to +55°C
- Storage : -55°C to +71°C



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

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