

ASELFIR-600

ELECTRO-OPTICAL RECONNAISSANCE,
SURVEILLANCE AND TARGETING SYSTEM

COMMON APERTURE WITH PRIMARY MIRROR OF DIAMETER 325 MM

SINGLE-LRU SYSTEM

SUPERIOR RANGE PERFORMANCE

HIGH DEFINITION (1280x1024) HD THERMAL CAMERA

HIGH DEFINITION (1920x1080) HD DAY TV CAMERA

HIGH DEFINITION (1280x1024) HD SWIR CAMERA

MULTI TARGET TRACKING

LASER TARGET DESIGNATION

INTERNAL BORESIGHT SYSTEM (IBS)

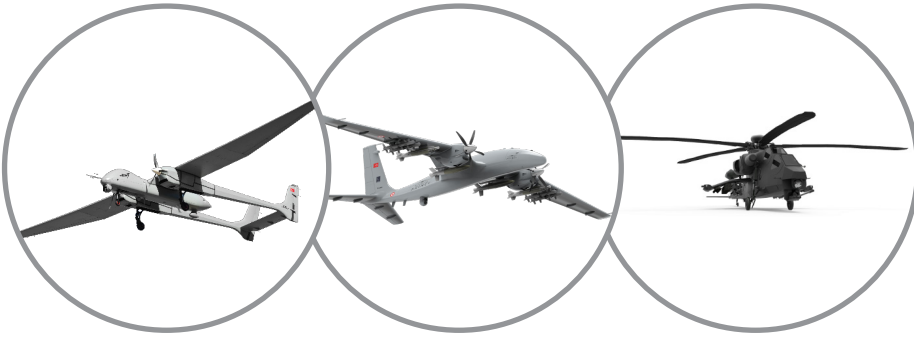
SUPER RESOLUTION

AUTOMATIC TARGET RECOGNITION (ATR)

HIGH PRECISION 4 AXIS MECHANICAL + 2 AXIS OPTICAL STABILIZATION

OPERATION IN VERY LOW TEMPERATURES IN HIGH ALTITUDES





ASELFLIR-600

ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

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

Applications

- Targeting
- Reconnaissance and Surveillance

Main Features

- 25-inch Gimbal Diameter
- Common Aperture with Diameter of 325mm, Very Large Aperture for Narrow FOVs and Very Narrow FOVs of HD IR, HD Day TV, HD SWIR Camera
- High definition HD IR Camera (MWIR)
- 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)
- Single-LRU System
- 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 in High Altitudes

Technical Specifications

Primary Mirror Diameter	325 mm
HD MWIR Camera	Sensor Resolution: 1280x1024 Fields of View (FOVs) (Horizontal): 0.55° - 0.85° (Narrow) 2.82° - 21.73° (Wide) Wavelength: MWIR
HD Day TV Camera	Sensor Resolution: 1920x1080 Fields of View (FOVs) (Horizontal): 0.21° - 0.92° (Narrow) 1.51° - 26.38° (Wide)
HD SWIR Camera	Sensor Resolution: 1280x1024 Fields of View (FOVs) (Horizontal): 0.24° - 1.05°
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 Repetition Rate: up to 20Hz Coding: STANAG 3733 Band I & II
Laser Pointer	Laser Pointer: Wavelength: NIR (Compatible with NVGs)
Communication Interface	RS-422, MIL-STD-1553B
Video Interface	4x SMPTE-292M HD-SDI (1920x1080p) 2x PAL
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%.