

# **ASELFLIR** | 600 aselsan

ELECTRO-OPTICAL RECONNAISSANCE,  
SURVEILLANCE AND TARGETING SYSTEM

#ElectroOptics



COMMON APERTURE WITH PRIMARY MIRROR OF DIAMETER 325 MM  
SUPERIOR RANGE PERFORMANCE  
HIGH DEFINITION (1280x1024) HD THERMAL CAMERA  
HIGH DEFINITION (1920x1080) FULL 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



**aselsan**



## 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 wing airborne platforms.

### Applications

- Targeting
- Reconnaissance and Surveillance

### Main Features

- 25-inch Gimbal Diameter
- Common Aperture with Diameter of 325mm, HD IR Camera (MWIR), Full HD Day TV, HD SWIR Camera
- True "Full High Definition" (1920x1080) Full 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

#### Full 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

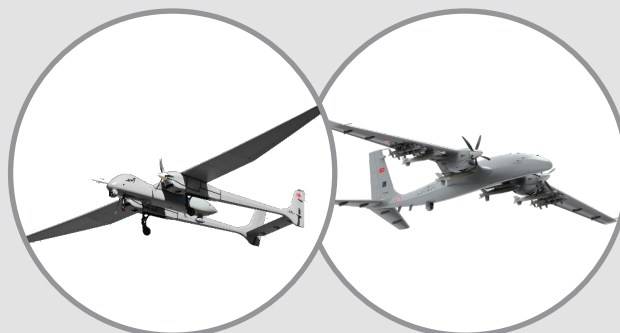
#### Size

- 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%.