



GÖZDE LASER PRECISION GUIDANCE KIT

GPS/INS/LASER GUIDANCE AIR TO SURFACE HIGH ACCURACY

MOVING TARGET







GÖZDE, designed by Tübitak SAGE is a guidance kit that converts 500 lb. class general purpose bombs to all-weather smart guided munitions. Guidance control system contains Inertial Navigational System, Global Positioning System and Laser Seeker in order to hit high priority fixed and moving targets.

Main Specifications

- In all-weather conditions
- High accuracy
- Engage against moving target
- Opportunity target engagement
- Fire and forget

Technical Specifications

- RangeMaximum Altitude
- : 28 km : 40.000 ft (MSL)

: 265 kg

: 2590 mm

: INS/GPS/Laser

: Fixed or Moving Target

- Circular Error Probable (CEP): < 3 m
- Guidance system
- Target
- Weight
- Length

Platform

• F-16, F-4E/ 2020, Akıncı





aselsan

ASELFLIR-500 ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

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 NIR CAMERA LASER TARGET DESIGNATION INTERNAL BORESIGHT SYSTEM (IBS) HIGH PRECISION 4 AXIS MECHANICAL + 2 AXIS OPTICAL STABILIZATION OPERATION IN VERY LOW TEMPERATURES IN HIGH ALTITUDES INNOVATIVE ARTIFICIAL INTELLIGENCE-BASED IMAGE PROCESSING ALGORITHMS IN THERMAL AND DAY TV CHANNELS



www.aselsan.com



ASELFLIR-500

ELECTRO-OPTICAL RECONNAISSANCE, SURVEILLANCE AND TARGETING SYSTEM

ASELFLIR-500 is a high performance electro-optical reconnaissance, surveillance and targeting system developed for fixed-wing and rotary-wing aerial platforms including Unmanned Aerial Vehicles (UAV), Helicopters and Airplanes.

ASELFLIR-500 system includes 3-5 micrometer High Resolution Infrared Camera, High Resolution Day TV Camera, High Resolution SWIR Camera, Laser Target Designator, Laser Range Finder, Laser Spot Tracker and Laser Pointing units.

Main Features

- Common Aperture with Diameter of 220 mm
- Very Large Aperture for Narrow FOVs and Very Narrow FOVs of HD IR, HD Day TV and HD-SWIR Cameras
- Larger Aperture Means Lighter and Therefore Better Image Quality and Better Range
- Compact and Light-weight system
- Artificial Intelligence Based image Processing Solutions for Thermal and Day TV Channels
- Single-LRU System
- Superior Range Performance
- High Performance HD IR Camera
- True Full High Definition (4096x2880 sensor resolution) HD Day TV Camera 1920x1080p Video Output Without Digital Upscaling
- High Definition SWIR Camera
- Common FOVs for HD IR, HD Day TV and HD SWIR cameras
- Laser Range Finder and Target Designator
- Laser Pointer
- Laser Spot Tracker
- Internal Boresight Unit
- 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 Coarse and Speed of Moving Target
- Inertial Measurement Unit (IMU)
- Accurate Stabilization
- Automatic Alignment with Platform
- Operation in Very Low Temperatures in High Altitudes

Technical Specifications

Primary Mirror Diameter	220 mm
HD IR Camera	Sensor Resolution: 1280x1024 Field of Views (Horizontal): 0.86° - 1.3° - 4.3° - 8.6° - 15° - 25° Wavelength: 3-5 µm (MWIR)
HD Day TV Camera	Sensor Resolution: 4096x2880 Field of Views (Horizontal): 0.5° - 0.9° and continuous zoom in between 3.2° - 30°
HD SWIR Camera	Sensor Resolution: 1280x1024 Field of Views (Horizontal): 0.66° - 1.1°
Field of Regard (FOR)	Azimuth: 360° continuous Elevation: +95° to - 110°
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 NVGs)
Communication Interface	RS-422, MIL-STD-1553B
Video Interface	4x SMPTE-292M HD-SDI (1920x1080p) 2x PAL
Power Interface	28 VDC
Size	Width: 480 mm Height: 520 mm (Forward position)
Weight	52 kg ±5%
Temperature	Operating: -40°C to +52°C Storage: -55°C to +70°C



