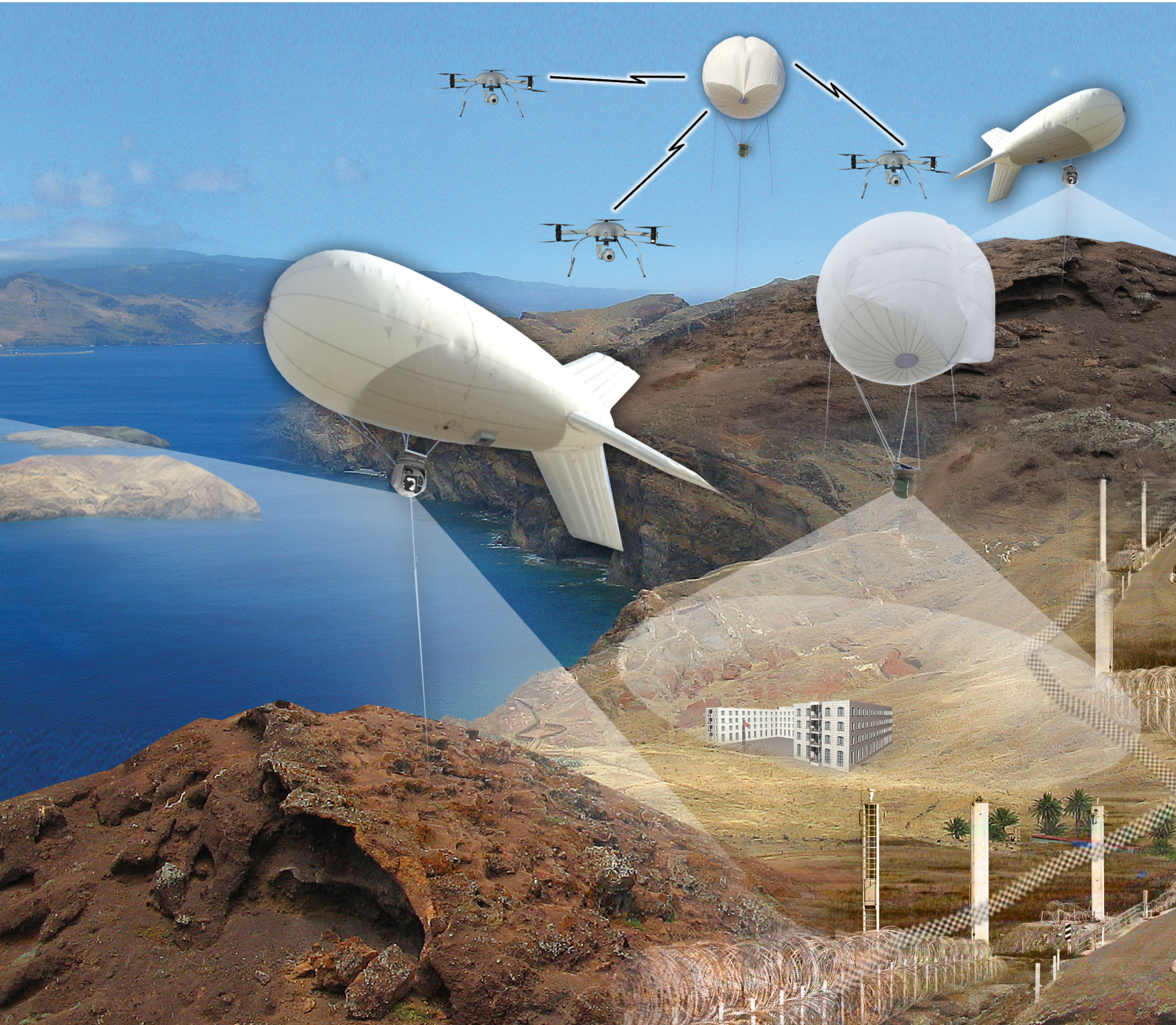


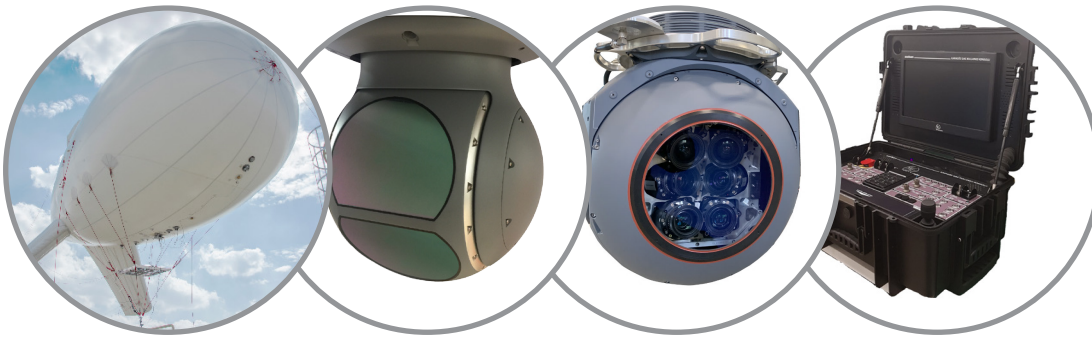
aselsan

# KARAGÖZ - GAG

AEROSTAT WIDE AREA SURVEILLANCE  
SYSTEM







# KARAGÖZ - GAG

## AEROSTAT WIDE AREA SURVEILLANCE SYSTEM

KARAGÖZ-GAG Aerostat Wide Area Surveillance System is developed with the aim of integrating ATMACA EO Surveillance System and Wide Area Surveillance Systems into the nationally produced aerostat air vehicle by providing communication with each other and by means of high-altitude continuous surveillance in the border area.

KARAGÖZ GAG is designed for the aim of bringing intelligence and early warning capability to military bases, according to task requirements such as high resolution wide area surveillance both day and night, monitoring suspicious vehicles and persons, monitoring tactical operations, abnormal condition detection, offers the optimal solution based on the current technology.

### KARAGÖZ GAG System Subsystem

- Aerostat Air Vehicle System
- Electro-Optical Sensor System
- Wide Area Surveillance System
- Security Management System
- Special Design Movable Habitation Units

EO Payload Features	GAG	Atmaca
Gimbal Size	18 dia x 21 h inch	26 dia x 35 h cm
Weight	<50 kg (except outer cable)	<10 kg
Sensor Type	Daytime Camera Daylight CCD (6576 x 4384) x6 piece Total 160 MP	Thermal Camera 640x512 FPA Daytime Camera Daylight CMOS/CCD
Stabilization	25 $\mu$ Rad	<30 $\mu$ Rad
Coverage	Horizontal: 360°	Horizontal: 360°
Angles	Vertical: 110°	Vertical: 360°
Field Of View	Daytime Camera: Horizontal > 70° Vertical > 13°	Thermal Camera: 16.8x13.5° (Wide) 6.0°x4.8° (Medium) 2.0°x1.6° (Narrow) Daytime Camera: 2.3° - 63.7° (Continuous)

### Payload

- Target Coordinate
- Long Range Target Detection/Diagnosis/Tracking
- Geolock Function
- Motion Detection Capability and Display on Map
- Firing Direction Detection (Optional)
- Communication Relay

### Aerostat Air Vehicle Features

- Length/Volume : 17,5 m/410 m<sup>3</sup>
- Wind Resistance : 40 knot
- Data Transfer : Wired/Wireless
- Power : Tethered
- Aerostat Air Vehicle Multiple Sensor System
- Air Pressure Stabilization System
- Emergency Deflation System
- Invulnerable to Small Arm Fires
- High Strength Tether System
- High Speed Crane System
- Mobile Mooring Equipment (Air Vehicle Support Handles, Mooring Handles, High Strength Rope, Helium Tubes, Power Generator)
- Compact Trailer System

### Security Management System

- Operator Control Unit
- Advanced User Interface
- Real Time Viewing/Recording/Replaying
- Display Multiple Stamp Image
- Trace Information and Telemetry Display
- Automatic Image Processing and Improvement
- Audible and Visual Alarm in Motion and Field Violation
- Select Alarm Zone

### Environmental Conditions

- Operating Temperature : -20°C/+50°C
- Storage Temperature : -20°C/+50°C
- 4-7 days of operation with no maintenance

