KARAGÖZ
AEROSTAT SURVEILLANCE SYSTEM
PRODUCT FAMILY
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Karagöz Aerostat Surveillance System Product Family is designed for the aim of bringing surveillance, intelligence and early warning capability to military bases and critical facilities, according to task requirements such as airborne persistent surveillance, critical facility security and regional communications, offers the optimal solution based on the current technology. Karagöz is adapted for various tasks with different payload options such as radar, communication relay, electro-optical camera.

Applications
- Persistent Surveillance and Intelligence
- Border and Coastal Security
- Observation of Disasters
- Road Traffic Information
- Forest Fire Detection and Early Warning
- Communication Relay
- Critical Facility Security

Air Vehicle General Features
- Aerostat Air Vehicle Sensor System
- Emergency Deflation System
- Air Pressure Stabilization System
- Invulnerable to Small Arm Fires

<table>
<thead>
<tr>
<th>Air Vehicle Features*</th>
<th>Karagöz-S</th>
<th>Karagöz-M</th>
<th>Karagöz-L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter / Volume</td>
<td>4.4m / 35m³</td>
<td>5.8m / 72m³</td>
<td>15.5m (Length) / 162m³</td>
</tr>
<tr>
<td>Wind Resistance</td>
<td>20 knot</td>
<td>40 knot</td>
<td>40 knot</td>
</tr>
<tr>
<td>Data Transfer</td>
<td>Wired</td>
<td>Wired/Wireless</td>
<td>Wired/Wireless</td>
</tr>
<tr>
<td>Power</td>
<td>Battery Operated</td>
<td>Tethered</td>
<td>Tethered</td>
</tr>
</tbody>
</table>

Payload
- 360° Stabilized Observation Capability
- Electro-Optic Camera Alternatives

<table>
<thead>
<tr>
<th>EO ** Payload Features</th>
<th>Atmaca</th>
<th>CATS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stabilization</td>
<td>&lt; 60µRad</td>
<td>5 µRad</td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg (max)</td>
<td>59 kg (max)</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>640x512 Cooled HD: Analog HD (Component)</td>
<td>IR: 640x512 HDTV: 1920x1080 DI-NIR: 640x480</td>
</tr>
<tr>
<td>Coverage Angles</td>
<td>Horizontal: 360° Vertical: 360°</td>
<td>Horizontal: 360° Vertical: 20° ile -120°</td>
</tr>
<tr>
<td>Field Of View</td>
<td>IR: 16.8°x13.5° (Wide) 6.0°x4.8° (Medium) 2.0°x1.6° (Narrow)</td>
<td>IR: 0.5°-0.9°-3.2°-30° (Horizontal) HDTV: 0.5°-0.9°-3.2°-30° (Horizontal)</td>
</tr>
</tbody>
</table>

** Communication Relay, Radar, Radiolink Systems Payload Options

Mooring Station and Ground Support Equipment
- 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
- Maintenance Kit

Environmental Conditions
- Operating Temperature : -20°C/+50°C
- Storage Temperature : -20°C/+50°C
- Durable Structure in harsh environmental conditions
- 7 days of operation with no maintenance

* Balloon air vehicle design in different sizes and body type according to customer requirements

** Specifications are subject to change without any notice.

ASELSAN A.Ş. is a Turkish Armed Forces Foundation company.