With large gimbal-level performance and turret weight of only 28 kg, the UltraFORCE 350-HD’s trusted multi-spectral HD imaging performance is optimized for airborne homeland security, combat, patrol, ALE, surveillance, reconnaissance, and search and rescue programs. This durable surveillance system, built to endure long missions, mounts on rotary-wing, fixed-wing, and unmanned airborne platforms. Built in Europe with no U.S.-sourced components, the UltraFORCE 350-HD is non-ITAR and offers extremely broad worldwide exportability and freedom of movement within Europe.

The UltraFORCE 350-HD delivers high-quality, real-time full motion video (FMV) from manned and unmanned airborne platforms. It provides long-range identification and covert operation at high standoff ranges. Flexible payload options offer high-value metadata from a MWIR thermal imager, HD color camera with 20x zoom, and multiple spotter and laser options. Full MISB/STANAG-compliant embedded metadata offers plug and play compatibility with ancillary systems via industry standard interfaces. Single LRU simplifies installation, and integrated IMU and GPS provide accurate geo-referencing for peripheral moving maps or other mission systems.

**COMPACT MULTI-SENSOR GYRO-STABILIZED SURVEILLANCE SYSTEM**

**UltraFORCE® 350-HD**

**FEATURES**

**SIGNIFICANT SWAP ADVANTAGES**
Single LRU, 14” turret, and carbon composite design increase mission endurance and mission success rates compared to other 15” or 16” class systems.

**FLEXIBLE SENSOR PAYLOAD**
640x512 thermal imaging and HD cameras with extended performance optics help provide positive scene analysis and safer standoff ranges.

**MULTIPLE SPOTTER AND LASER OPTIONS**
Covertly identify targets at longer detection ranges during daytime surveillance; low-light camera extends operation into dawn and dusk.

**EASA FORM 1 COMPLIANT**
This certificate of airworthiness simplifies installation certification and eliminates need for expensive qualification when installed on approved aircraft mounts.

**RICH METADATA OUTPUT**
UltraFORCE 350-HD delivers full HD video with embedded metadata fully compliant to STANAG and MISB standards.

**APPLICATIONS**

**RECONNAISSANCE**
**SURVEILLANCE**
**MILITARY POLICE SECURITY**
**FORWARD OBSERVATION**
**FORCE PROTECTION**
**AIRBORNE LAW ENFORCEMENT**
### SPECIFICATIONS

#### Thermal Imaging Performance

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>3rd gen 640 x 512 3-5 μm MCT focal plane array</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Enhancements</td>
<td>Non Uniformity Correction, Bad Pixel Replacement, AGC (Automatic Gain Control), Histogram, Equalization, Digital Details Enhancement (Tunable)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOV</th>
<th>Wide: 17.3° to 13.6°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: 5° to 4°</td>
</tr>
<tr>
<td></td>
<td>Narrow: 1.2° to 0.9°</td>
</tr>
<tr>
<td>Zoom</td>
<td>2x</td>
</tr>
</tbody>
</table>

#### Daylight Imaging Performance

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>High Definition CCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOV</td>
<td>60° to 2.2° continuous zoom</td>
</tr>
</tbody>
</table>

**Spotter Scope Option**

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Color CCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOV</td>
<td>25.4° to 0.79° continuous zoom</td>
</tr>
</tbody>
</table>

| Sensitivity                  | 1 Lux                     |

#### Gimbal Specifications

<table>
<thead>
<tr>
<th>LOS Pan range</th>
<th>360 degrees continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOS Tilt range</td>
<td>+20 / -120 degrees</td>
</tr>
<tr>
<td>AZ/EL slew rate</td>
<td>Up to 60°/s</td>
</tr>
<tr>
<td>Stow</td>
<td>Magnetically held in stow position</td>
</tr>
</tbody>
</table>

#### Electronics Control Unit

| Hand Controller Unit         | 0.8 kg, 230 mm Height    |

#### Interfaces

ARINC 429, RS232/422 and other interfaces to support navigation systems, moving maps, radars, searchlights, and GPS

#### Outputs

| Video                        | HD-SDI (720P)            |

#### Power

| Power requirements           | 22-30 VDC < 150 W        |

#### Overview

<table>
<thead>
<tr>
<th>Gimbal size</th>
<th>350 mm (D) x 485 mm (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gimbal weight</td>
<td>28 kg</td>
</tr>
<tr>
<td>Environmental</td>
<td>RTCA DO-160E</td>
</tr>
</tbody>
</table>

#### Options

- Auto-Tracker
- Laser Range Finder
- Laser Pointer (Covert)
- Eyesafe Visible Laser Pointer
- Laser Illuminator
- IMU Control Unit

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