Extremely low SWaP makes the UltraFORCE 275-HD the optimal choice for weight, power and footprint-constrained platforms. The system delivers multi-spectral HD imaging performance for airborne homeland security, combat, patrol, surveillance, reconnaissance, and search and rescue programs. Durable, long endurance design makes the UltraFORCE 275-HD the ideal choice for lightweight manned and unmanned airborne platforms. Built in Europe with no U.S.-sourced components, the UltraFORCE 275-HD is ITAR-free, increasing exportability and freedom of movement within Europe.

The UltraFORCE 275-HD delivers high-quality, real-time full motion video (FMV) while having the lowest weight in its 10” to 12” turret class. It incorporates high performance TV and IR imaging payloads, both with continuous zoom optics, to provide long-range identification and covert operation at high standoff ranges. Single LRU architecture simplifies installation, and integrated IMU and GPS provide accurate geo-referencing for peripheral systems.

**FEATURES**

**SIGNIFICANT SWaP ADVANTAGES**
Single LRU and lowest weight in its 10” to 12” turret class make it easy to install on weight, power, and footprint-constrained platforms, without compromising endurance.

**ITAR-FREE FLEXIBILITY**
Built in Europe with no U.S.-sourced components, the UltraFORCE family offers increased exportability.

**CONTINUOUS ZOOM**
Continuous zoom, high performance optics on all imaging sensors provide uninterrupted video of evidential quality and reduces operator workload to maintain target visibility during zoom.

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

**RICH METADATA OUTPUT**
UltraFORCE 275-HD delivers full HD video with embedded metadata fully compliant to STANAG and MISB standards.

**APPLICATIONS**

**COUNTER DRUG AND PEOPLE SMUGGLING**

**HOMELAND SECURITY**

**PATROL**

**SURVEILLANCE**

**RECONNAISSANCE**

**SEARCH & RESCUE**

**BORDER PROTECTION**
## SPECIFICATIONS

### Thermal Imaging Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>3rd gen 640 x 512 3-5 μm MCT focal plane array</td>
</tr>
<tr>
<td>Image Enhancements</td>
<td>Non Uniformity Correction, Bad Pixel Replacement, AGC (Automatic Gain Control), Histogram, Equalization, Digital Details Enhancement (Tunable)</td>
</tr>
<tr>
<td>FOV</td>
<td>Continuous zoom 28° to 1.83°</td>
</tr>
<tr>
<td>Ezoom</td>
<td>2x</td>
</tr>
</tbody>
</table>

### Daylight Imaging Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>High Definition CMOS</td>
</tr>
<tr>
<td>Resolution</td>
<td>1080x720 or 1920x1080</td>
</tr>
<tr>
<td>FOV</td>
<td>Continuous zoom 45° to 2.3°</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>0.01 lux color; 0.006 lux monochrome</td>
</tr>
</tbody>
</table>

### Gimbal Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOS Pan range</td>
<td>360 degrees continuous</td>
</tr>
<tr>
<td>LOS Tilt range</td>
<td>±20 / -120 degrees</td>
</tr>
<tr>
<td>A2/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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Controller Unit</td>
<td>0.8 kg, 230 mm Height</td>
</tr>
</tbody>
</table>

### Interfaces

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

### Outputs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>HD-SDI 720p / 1080p</td>
</tr>
</tbody>
</table>

### Power

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>22-30 VDC &lt; 150 W, 75 W typical</td>
</tr>
</tbody>
</table>

### Overview

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gimbal size</td>
<td>275 mm (D) x 378.5 mm (H) / Approx. 11 in (D) x 15 in (H)</td>
</tr>
<tr>
<td>Gimbal weight</td>
<td>16 kg / 35 lbs</td>
</tr>
<tr>
<td>Environmental</td>
<td>RTCA DO-1668</td>
</tr>
</tbody>
</table>

### Options

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

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**For More Information contact surveillance_sales@flir.com**

www.flir.com

NASDAQ: FLIR

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