STABILIZED PLATFORMS

With over 30 years in mechatronic expertise for motion simulators, iXblue is an independent leader in platform stabilization solutions for optronic, radar, antennas and weapon systems.

Industrial excellence
iXblue leverages the most advanced, proven technologies and implement critical systems only when they reach full technological maturity through intense tests and trials. In addition, iXblue designs its systems to attain the lowest maintenance needs. All of our off-the-shelf stabilized platforms are ITAR-free and in order to minimize the costs, cutting-edge hardware as well as COTS software are used as often as possible.

Performance and robustness
iXblue refuses technological compromise when it comes to choosing between performance and critical requirements for demanding land usage. High level R&D investment allows iXblue's solutions to meet the highest Line-Of-Sight (LOS) accuracy while being compliant with the most extreme operation conditions.

Scalability and ease-of-use
iXblue's systems have strong hardware, software and interface commonalities, allowing for great savings in terms of integration, installation, configuration management, logistics, training and maintenance costs. This also results in a greater flexibility to dimension the product according to the payload type, weight and size.
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iXblue at a glance

30 YEARS OF EXPERIENCE
147+ MILLION EUROS OF TURNOVER
80% OF TURNOVER ACHIEVED ABROAD
750+ EMPLOYEES
30,000+ FIBER-OPTIC GYROSCOPES SOLD
20% OF TURNOVER REINVESTED EACH YEAR IN R&D
65+ NAVIES AND ARMIES SERVED
DELIVERING OVER 500 CUSTOMERS EVERY YEAR
24/7 TECHNICAL SUPPORT

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A COMPLETE RANGE OF STABILIZED PLATFORMS

**Osiris**
SINGLE-AXIS GYROSTABILIZED PLATFORM FOR RF FLAT PANELS

Used for both surveillance and communication applications, Osiris ensures panoramic reconnaissance capability by providing quick rotation and fixed positioning of AESA RADAR antennas.

**Ceos**
TWO-AXIS GYROSTABILIZED PLATFORM FOR SINGLE PAYLOAD

Used for situational awareness, security and surveillance applications, Ceos light-weight platform guarantees sharp images and/or videos by providing reliable stabilization to the most modern medium-weight integrated optical sensors packages.

**Neos**
TWO-AXIS GYROSTABILIZED PLATFORM FOR MULTIPLE PAYLOADS

Used for situational awareness, security and surveillance applications, Neos offers a versatile platform that enables multiple optical sensors packages to provide sharp images and/or videos.

**Leos Series**
HIGHLY ACCURATE TWO-AXIS GYROSTABILIZED PLATFORM FOR Optronic SENSORS

Used for observation, reconnaissance and targeting applications, Leos achieves ultimate Line-Of-Sight stabilization. Thanks to the integration of high-grade gyroscopes coupled to advanced algorithms, Leos maintains medium-weight optronic sensors’ performance, detection, reconnaissance and identification capabilities.

As of today, two models are available and provide various degrees of gyrostabilization according to customers’ needs.

APPLICATIONS

- Optronics
- Radars
- Antennas
- Weapons
## Stab Series

### Main characteristics & performance

<table>
<thead>
<tr>
<th>Platform</th>
<th>Mode</th>
<th>1-axes</th>
<th>2-axes</th>
<th>2-axes</th>
<th>2-axes</th>
<th>2-axes</th>
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</thead>
<tbody>
<tr>
<td>OSIRIS</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td>NEOs</td>
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</tr>
<tr>
<td>Leos S5</td>
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<tr>
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<tr>
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</tbody>
</table>

### Gyrostabilized Line-Of-Sight

<table>
<thead>
<tr>
<th>Platform</th>
<th>Mode</th>
<th>Position Accuracy</th>
<th>Angular Speed</th>
<th>Angular Acceleration</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSIRIS</td>
<td></td>
<td>Azimuth ≤ 0.01°, Elevation ≤ 0.01°</td>
<td>180</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>CEOS</td>
<td></td>
<td>Azimuth ≤ 0.01°, Elevation ≤ 0.01°</td>
<td>60</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>NEOs</td>
<td></td>
<td>≤ 0.01°, ≤ 0.01°</td>
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<td>90</td>
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<tr>
<td>Leos S5</td>
<td></td>
<td>≤ 0.01°, ≤ 0.01°</td>
<td>115</td>
<td>115</td>
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</tr>
<tr>
<td>Leos S6</td>
<td></td>
<td>≤ 0.01°, ≤ 0.01°</td>
<td>120</td>
<td>150</td>
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<tr>
<td>Leos L5</td>
<td></td>
<td>≤ 0.01°, ≤ 0.01°</td>
<td>120</td>
<td>150</td>
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</tr>
<tr>
<td>Leos L7</td>
<td></td>
<td>≤ 0.01°, ≤ 0.01°</td>
<td>120</td>
<td>150</td>
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</tbody>
</table>

### Nominal payload

<table>
<thead>
<tr>
<th>Platform</th>
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<th>Weight (kg)</th>
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<tr>
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<td>&lt; 13</td>
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<td>NEOs</td>
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<td>&lt; 25</td>
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<tr>
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<tr>
<td>Leos L5</td>
<td></td>
<td>&lt; 46</td>
</tr>
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<td>&lt; 46</td>
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</table>

### Key benefits

- Off-the-shelf turrets and tailor made
- ITAR-free
- Standard communication protocol
- Harsh environment and combat-proven
### Tailor-Made Solutions

Operating in vast stretches of mountains and rugged valleys is a challenge when it comes to maintaining satellite communications. In Afghanistan, iXblue brought its gyrostabilization expertise to Thales Communication and Security to deliver over 30 hybrid orientation systems: including an Antenna Control Unit (ACU) and a positioner. The challenge was to create a perfect mechanic and electronic symbiosis able to ensure the beam pointing around the azimuthal axis with high bandwidth and low friction.

On-the-move satellite communication with iXblue positioning system operating in the French army. Courtesy of Thales.

### OEM Equipment

#### Motion Controllers and Servo-Drive Units

This series of rugged Motion Controllers and servo-Drive Units provide position, rate and gyrostabilization for two axis platforms. The MCDU family is based on modular architecture with filter boards, controllers and servo-drive units compatible with a wide range of motors (DC, BLDC or BLAC type).

Communication is ensured by serial link and iXlink protocol at refresh rate up to 1 kHz. Reliability and long lifetime with short circuit, over speed, temperature limit, position/rate/acceleration limits.

The control algorithms are based on the latest iXblue developments protected by several patents.
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