



## **With virtual reality, the HGH Group offers a new immersive maritime and naval surveillance experience.**

**October 6th, Paris – Le Bourget, France** – As Euronaval opens its doors, the HGH group continues to innovate by offering a unique experience of maritime and coastal surveillance through virtual reality.

Since 2009, HGH provides innovative thermal imaging solutions for asymmetric threats detection and warship protection (InfraRed Search&Track), for USV collision avoidance, and for maritime/coastline surveillance (fight against illegal migration, protection of naval bases/harbours/offshore platforms...). The HGH solutions integrate a 360°rotating detection and monitoring system (SPYNEL™) and a dedicated software (CYCLOPE) integrable with most civil and military supervision systems (CMS, VMS, C2, C4I...). It automatically and simultaneously detects, tracks and classifies an unlimited number of sea/land/air threats, including RHIBs, jet-skis, low altitude air targets, UAVs, crawling men...

HGH has developed a new application of the SPYNEL technology based on virtual reality. It provides a unique experience to the visitor immersed in the heart of coastal and maritime surveillance with a 360° view. Each alert or potential attack is tracked and can be easily isolated for analysis in real time. The visitor will apprehend the efficiency and the precision of the SPYNEL system and the CYCLOPE software. This demonstration also allows to experiment the new CYCLOPE technical evolutions like GAIA™, and I<sup>2</sup>Q™

GAIA™, the new artificial intelligence processing feature, deeply improves the detection effectiveness (automatic classification) and streamlines surveillance operations. The AI module uses three patent-pending neuronal networks designed for patterns recognition (maritime, land and air surveillance applications). The automatic classification is efficient at long-distance, on a very wide range of land and sea targets, from just a few pixels to very large objects. The unique combination of GAIA™ Artificial Intelligence with CYCLOPE video analytics provides advanced and early detection, tracking and classification of any kind of threats.

Additionally, GAIA™ Artificial Intelligence is boosted by the I<sup>2</sup>Q™ **image processing library** allowing to achieve superior day/night image quality whatever the environmental conditions. The new I<sup>2</sup>Q image processing library provides to operator day & night images with unprecedented quality (sun glint reduction, smart denoising, local contrast enhancement...)

A demonstration of this experimental innovation is available on the HGH stand (B44) during the EURONAVAL exhibition which will be held from October 18 to 21 at Le Bourget.

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### **About HGH**

HGH has been an expert in infrared technology for 40 years. Since 1982, HGH designs, develops, assembles and sells electro-optics systems and software for security, defense, oil & gas, energy and various industrial applications. The company has established itself as an international reference in terms of innovation in infrared technology, through the development of multiple advanced sensors, systems and proprietary software. HGH's Head Office is located in Igny near Paris, in the heart of the French Optics Valley, where the most well-known research laboratories and companies are based. [www.hgh-infrared.com](http://www.hgh-infrared.com)

