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Multifunctional, compact and lightweight: Jenoptik launches new Laser Rangefinder with Thermal Imager for Reconnaissance and Target Acquisition.

NYXUS BIRD is the first multifunctional thermal imager combining day/night vision with target localization capability in an extremely handy device weighing less than 1.5 kilograms. Enhancing the dismounted soldier's reconnaissance abilities while optimizing his mobility, NYXUS BIRD satisfies the demanding requirements of infantry and special forces for powerful and lightweight portable optronic equipment.

NYXUS BIRD combines a high resolution thermal imager and high quality glass optics with a laser rangefinder, digital magnetic compass and GPS within an easily portable device suitable for single-handed operation. In this sense NYXUS BIRD resembles the remarkable abilities of various bird species with regards to precise and fast target detection, target ranging, orientation and lightness: NYXUS BIRD – genius like nature.

Brilliant Day and Night Vision

Derived from Jenoptik's latest thermography technology, NYXUS BIRD's high resolution thermal imager provides clear night vision in absolute darkness, vision through fog or smoke and detection of camouflaged targets – also under daylight conditions and at large distances. The uncooled infrared detector ensures noiseless operation, a short startup time and long autonomous battery operating time.

Multiple coated monocular glass optics (direct view optics) with seven-fold magnification offer high resolution day vision and can perfectly be combined with standard helmet mounted image intensifiers or night vision goggles.



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Precise Target Measurement & Localization

NYXUS BIRD features an eyesafe Jenoptik laser rangefinder operating at 1,550 nanometers which prevents detection by night vision devices based on image intensifiers. Along with its digital magnetic compass (DMC) and GPS module it warrants exact target localization even at large distances.

Optimal Portability

Weighing less than 1.5 kilograms the compact NYXUS BIRD is easily portable and suited for comfortable one-handed operation, offering maximum mobility for the dismounted soldier.

Applications and References

NYXUS BIRD is primarily designated for usage by infantry and special forces, including national future soldier programs. Especially, it is already pre-selected for the German "Infantryman of the Future – Enhanced System" (IdZ-ES) where it will be incorporated as reconnaissance equipment.

NYXUS BIRD on public display at trade shows

The new NYXUS BIRD is launched in public for the first time:

- in Europe at the EUROSATORY 2012 in Paris, France by Jenoptik, booth G689 and
- in North America at the AUSA Annual Meeting 2012 by JENOPTIK Defense, Inc.

<http://www.jenoptik.com/nyxus>



NYXUS BIRD in action. Photos: © Jenoptik

NYXUS BIRD photo downloads: <http://www.jenoptik.com/en-sensorsystems-press-photos>



About Jenoptik and the Jenoptik-division Defense & Civil Systems

As an integrated optoelectronics company Jenoptik engages actively in the five segments Laser & Material Processing, Optical Systems, Industrial Metrology, Traffic Solutions, and Defense & Civil Systems. The company serves customers in the semiconductor and semiconductor equipment industries, in the automotive and automotive supplier industries, in the medical, security, and defense technology industries, and in the aviation industry.

Focus areas of the division Defense & Civil Systems are vehicle and aviation equipment, drive and stabilization technologies, optoelectronic instruments, systems for the defense and security industries, as well as versatile and innovative sensors and measurement solutions for industrial control and automation.

Jenoptik's expertise in development and production of thermal imagers and laser rangefinders for various applications builds on more than 30 years of experience. The proven NYXUS observation platform is successfully established in the German Army and Jenoptik's solid-state and diode laser rangefinders are integrated into optronic system solutions by many notable partners worldwide.

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