

Nyxus Bird

High Resolution Thermal Imager for Mobile Operations



- 1) Securing transport infrastructure
- 2) Investigation
- 3) Site protection

INFRA^{TEC}.

Europe's leading specialist for infrared sensors and measurement technology

Excellent geometrical resolution (640 x 480) IR Pixel

Thermal resolution better than 0.08 K

High-resolution night vision thermal system

Integrated daylight channel with 7x magnification

Hardly-detectable laser range finder

GPS for exact target location, digital magnetic compass

Snapshot function for images and target data

Ruggedised body compliant to MIL-STD-810F

External video interface



www.InfraTec.eu

Made in Germany



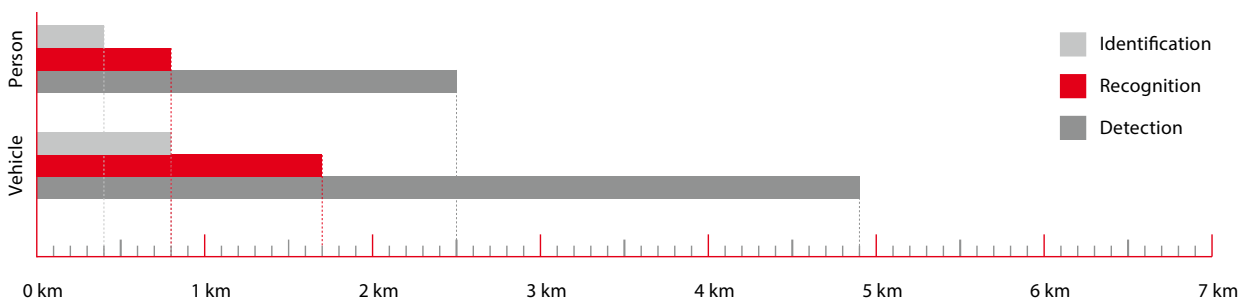
Spectral range	(8 ... 14) μm
Pitch	17 μm
Detector	Uncooled microbolometer Focal Plane Array
Detector format (IR pixels)	(640 \times 480)
Temperature resolution @ 30 °C	Better than 0.08 K
Frame rate	25 / 30 Hz
Lens	55 mm (11 \times 8) $^\circ$
Focus	Motorised
Electronic Zoom	2 \times and 4 \times
Max. detection range (vehicle/human)	4.9 km / 2.5 km
Dynamic range	14 bit
Interfaces	External power supply (18 ... 32) VDC, USB 2.0, RS232
Tripod adapter	1/4" photo thread
Power supply / Autonomy	Lithium high-capacity battery / more than 8 hrs
Laser range finder (LRF), laser classification	Diode laser 1,550 nm, eye-safe, hardly detectable
Measurement accuracy LRF / Measuring range LRF	\pm 2 m / (10 ... 5,000) m
Viewfinder / Type of viewfinder display (pixel)	Monocular / OLED (800 \times 600)
Storage and operation temperature	(-40 ... 63) $^\circ\text{C}$, (-32 ... 55) $^\circ\text{C}$
Housing	Dustproof / waterproof MIL-STD-810F
Dimensions, weight	(195 \times 190 \times 95) mm, 1.8 kg

Day channel (VIS)

Type	Monocular	Magnification	7 \times
Field of view	6.75 $^\circ$	Optical aperture	40 mm

Digital magnetic compass

Azimuth range/accuracy	360 $^\circ$ / < 0.3 $^\circ$	Elevation range/accuracy	65 $^\circ$ / \pm 0.2 $^\circ$
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Nyxus Bird is a multi-purpose observation and reconnaissance device for demanding law-enforcement missions. Due to its unique combination of features and specifications it is an essential tool for observation tasks. With just one keystroke the operator can switch between a high-resolution thermal image and tack-sharp visual view. Both operation modes can utilise a precise laser range-finder which is invisible for image-intensifier based counter intelligence. Remote targets can be measured and localised via the integrated GPS and digital magnetic compass. The comfortable viewfinder and the ergonomical waterproof body allow long-term observing sessions even during bad environmental conditions. Mission documentation is possible by using the internal snapshot function. The USB interface allows easy video streaming and recording. A serial interface is available for PC based remote control. Depending on model, lenses with the aperture of f/1.0 will be used.

Standard accessories

- Protective padded carrying case, lithium high-capacity battery
- Multi-plug connecting cable (USB, RS232, external power supply)
- Handbook and quick reference guide

Users and fields of application

- Police, special forces, border guard, customs, security services
- Intelligence, investigation, site protection and surveillance
- Disaster relief organisation, SAR missions, mountain rescue

Headquarters

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