Nyxus Bird

High Resolution Thermal Imager for Mobile Operations



INFRATEC.

Europe's leading specialist for infrared sensors and measurement technology



Excellent geometrical resolution (640 × 480) IR Pixel Thermal resolution better than 0.08 K High-resolution night vision thermal system Integrated daylight channel with 7× 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



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



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Spectral range	(8 14) μm	
Pitch	17 μm	
Detector	Uncooled microbolometer Focal Plane Array	
Detector format (IR pixels)	(640 × 480)	
Temperature resolution @ 30 °C	Better than 0.08 K	
Frame rate	25/30 Hz	
Lens	55 mm (11 × 8)°	
Focus	Motorised	
Electronic Zoom	2× and 4×	
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	± 2 m/(10 5,000) m	
Viewfinder/Type of viewfinder display (pixel)	Monocular/OLED (800×600)	
Storage and operation temperature	(-40 63) °C, (-32 55) °C	
Housing	Dustproof/waterproof MIL-STD-810F	
Dimensions, weight	(195 × 190 × 95) mm, 1.8 kg	

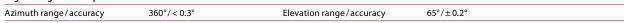
14) um

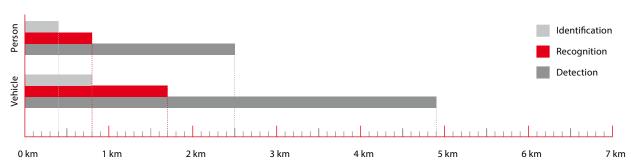
Day channel (VIS)

Spectral range

Туре	Monocular	Magnification	7×
Field of view	6.75°	Optical aperture	40 mm

Digital magnetic compass





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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