Nyxus Bird
High Resolution Thermal Imager for Mobile Operations

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

www.InfraTec.eu

Made in Germany
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

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: 2x and 4x
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

Day channel (VIS)
Type: Monocular
Field of view: 6.75°
Magnification: 7×
Optical aperture: 40 mm

Digital magnetic compass
Azimuth range / accuracy: 360° / < 0.3°
Elevation range / accuracy: 65° / ± 0.2°

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Further information at: www.InfraTec.eu