

# Nyxus Bird LR

Versatile Multi-purpose Measuring Imager for Ambitious Missions



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

## INFRA<sup>TEC</sup>.

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



[www.InfraTec.eu](http://www.InfraTec.eu)

Made in Germany



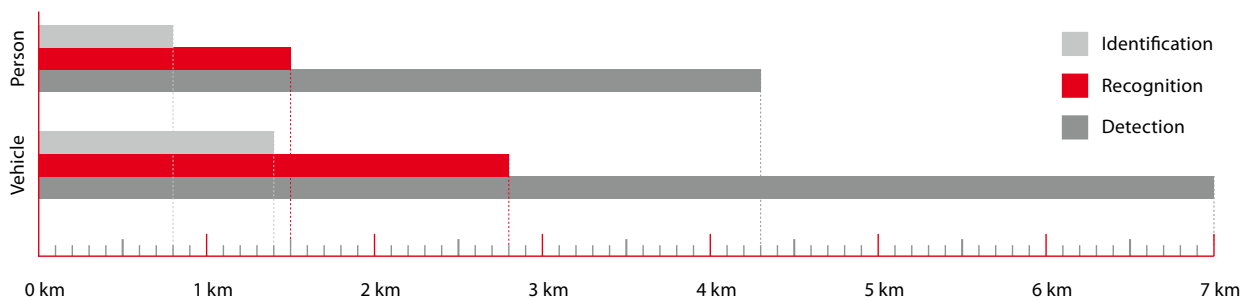
|   |   |
|---|---|
| Spectral range                                  | (8 ... 14) $\mu\text{m}$  |
| Pitch   | 17 $\mu\text{m}$  |
| Detector  | Uncooled microbolometer Focal Plane Array                             |
| Detector format (IR pixels)                     | (640 $\times$ 480)  |
| Temperature resolution @ 30 °C                  | Better than 0.08 K  |
| Frame rate                                      | 25 / 30 Hz  |
| Lens  | 90 mm (7 $\times$ 5) $^\circ$   |
| Focus   | Motorised   |
| Electronic Zoom                                 | 2 $\times$ and 4 $\times$   |
| Max. detection range (vehicle/human)            | 7.0 km / 4.3 km   |
| Dynamic range                                   | 14 bit  |
| Interfaces                                      | External power supply 12 VDC, USB 2.0, RS232                          |
| Tripod adapter                                  | 1/4" photo thread   |
| Power supply / Autonomy                         | Lithium high-capacity battery / more than 8 hrs, rechargeable battery |
| 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                              | (215 $\times$ 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 $^\circ$ |
|------------------------|-------------------------------|--------------------------|----------------------------------|



Nyxus Bird LR 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.

#### Standard accessories

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

#### Users and fields of application

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

#### Headquarters

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