



Z: NIGHTOWL® M

Extreme range camera for surveillance applications

The ITAR-free Z:NightOwl® M was specially designed for observation at extreme ranges. With its combination of a very large field of view for wide-area observation and detection, and an extremely small field of view for identification, it fulfills the highest requirements for the seamless surveillance of land and maritime borders. High-performance technology that you can rely on at any time.

The IP-based Z:NightOwl® M can be operated as a stand-alone or networked camera by means of our Management Software suite Z:ASSESS. It also allows integration into existing legacy operating systems.

FEATURES & BENEFITS

- Available as standard definition (SD) and high definition (HD) version
- Easy integration into existing systems
- Flexible service architecture
- Concept for software and hardware components
- Extreme magnification through 200 x continuous zoom
- High performance Laser Rangefinder
- SW suit for enhance operational capabilities



The **new** Sensor House

HENSOLDT
Detect and Protect.

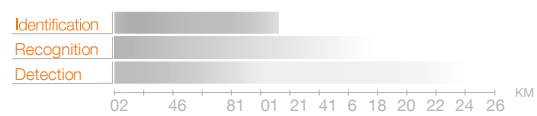
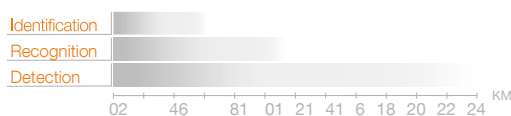
Z: NIGHTOWL® M

| Optical data | | |
|----------------------------|--|----------------------|
| Thermal Imaging Camera | Standard Definition (SD) | High Definition (HD) |
| Imaging Sensor | Cadmium Mercury Telluride CMOS | |
| Resolution | 640 x 512 px | 1280 x 1024 px |
| Spectral Range | MWIR (3.5 µm to 5.1 µm) | |
| Field of View (horizontal) | 0.46° to 15.0° | 0.92° to 30.0° |
| Continuous Optical Zoom | 33 x | |
| Continuous Digital Zoom | up to 8 x | |
| Focal Length | 36 mm to 1200 mm | |
| Focus | Manual, Automatic or Absolute Distance | |
| Sensor Start-Up Time | < 8 min (+ 20° C) | |
| Daylight Camera | | |
| Imaging Sensor | 1 / 2.8-type CMOS | |
| Resolution | 768 x 576 px | 1920 x 1080 px |
| Field of View (horizontal) | 0.42° to 24.1° | 0.39° to 22.6° |
| Continuous Optical Zoom | 55 x | |
| Continuous Digital Zoom | 6 x | |
| Focal Length | 12 mm to 660 mm | |
| Focus | Manual and Automatic | |
| Min. Illumination | 1.0 lux | |
| Laser rangefinder | | |
| Type | Nd:YAG OPO-shifted | |
| Wavelength | 1570 nm ± 10 nm | |
| Pulse Repetition Rate | up to 1 pulse per second | |
| Safety Class | 1M in acc. with EN 60825 / 1:2007-03 | |
| Measuring Range | 50 m to 20,000 m (accuracy 1 m) | |
| Multiple Echoes | Yes | |
| Mechanical data | | |
| Pan and Tilt | | |
| Azimuth Range / Velocity | n x 360° / 0.01° to 60° per sec | |
| Elevation Range / Velocity | ± 45° / 0.01° to 60° per sec | |
| System Features | | |
| Video Output | H.264 over IP | |
| Command and Control | Gigabit-Ethernet / ZeO-Sys | |
| Power | 18 V DC to 32 V DC MIL-STD 1275D (normal operating mode) 24 V DC recommended | |
| Weight | appr. 88 kg | |
| Size (H x W x D) | appr. 1039 mm x 517 mm x 951 mm | |
| Environmental conditions | | |
| Environmental test and EMC | MIL-STD-810G. MIL-STD-461G and 2014 / 30 / EU. IP 65 | |

Thermal Imaging Camera Range Performance*

Human (1.8 x 0.5 m; ΔT = 5K)

Vehicle (2.3 x 2.3 m; ΔT = 2K)



*DRI according to Johnson Criteria.

