

HENSOLDT NightOwl ZM

Long range camera for surveillance applications

The surveillance camera is specifically developed for long-range observation. The IP-based NightOwl ZM can be operated as a stand-alone unit or networked camera by means of our Management Software Z:ASSESS. It also allows integration into existing legacy operating systems.

Capabilities

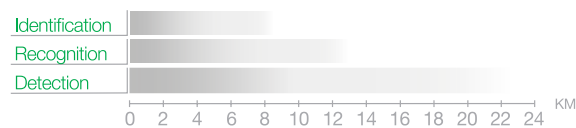
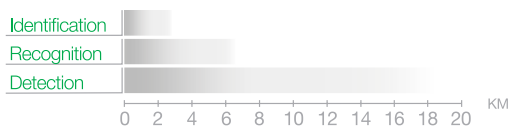
- Available as extreme range (ER) version for increased range performance
- 360° observation range
- Thermal imager boresighted with a CMOS camera and laser rangefinder
- Compact ruggedized design without external cabling
- Hermetically sealed housing
- Suited for vehicle integration



HENSOLDT NightOwl ZM

Optical Data	
Thermal Imaging Camera	
Imaging Sensor	Cadmium Mercury Telluride CMOS
Resolution	640 x 512
Pixel Pitch	15 µm
Spectral Range	MWIR (3 µm to 5 µm)
Field of View (horizontal)	0.95° to 12.2°
Continuous Optical Zoom	12.9 x
Continuous Digital Zoom	up to 8 x
Focal Length	45 mm to 579 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	1920 x 1080 px
Field of View	0.92° to 25°
Continuous Optical Zoom	30x
Continuous Digital Zoom	12x
Focal Length	4.3mm to 129mm
Focus	Manual or Automatic
Minimum Illumination	≤ 0.01 lux (1/30 s)
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 Echos	Yes
Mechanical data	
Pan and Tilt Platform	
Azimuth Range / Speed	n x 360° / 0.05° to 40° per sec
Elevation Range / Speed	± 43° / 0.05° to 20° per sec
System Features	
Video Output	H.264 over IP
Command and Control	Gigabit-Ethernet / ZEOSys
Power	18V DC to 32V DC MIL-STD 1275D (normal operating mode) 24V DC recommended
Weight	appr. 59 kg
Size (H x W x D)	appr. 635 mm x 432 mm x 435 mm
Environmental Conditions	
Environmental Test and EMC	MIL-STD-810G. MIL-STD-461G and 2014 / 30 / EU. IP 67

Thermal Imaging Camera Range Performance*



Vehicle (2.3 x 2.3 m; ΔT = 5K)

*DRI according to Johnson Criteria.



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