



Multi-sensor optronic solution for observation, identification and automatic tracking of maritime vectors, land and aerial targets.

Integrated optronic block on an accurate Pan&Tilt, combining continuous zooms on both visible - near infrared camera and uncooled band III thermal camera.

MOS-MR allows middle-range observation and surveillance, mainly for sensitive sites and critical infrastructures protection, monitoring for use in critical high-site monitoring (airport, critical industrial site).

- Fast and accurate Pan&Tilt
- Adapted solution from qualified and field proven equipment
- Critical infrastructures surveillance, such as airport, port, border and coastal area
- High MTBF, no mandatory preventive maintenance requiring return of equipment
- Solution designed and manufactured in France, no export restrictions linked to a third country
- Optional automatic video tracking

TECHNICAL SPECIFICATIONS

Uncooled Thermal Camera

Sensor	Uncooled thermal camera, pitch 12µm	
Spectral Band	LWIR: 8-12 µm	
Resolution	640 x 512 pixels (SD) or 1280 x 1024 pixels (HD)	
Sensor NETD	<50 mK @25°C F#1.0	
Continuous optical zoom	5x : F= 30 - 150 mm	9x : F= 25 – 225 mm
Horizontal Field of View	14.7° to 2.9° (SD)	17.7° to 2.0° (SD)
	28.7° to 5.9° (HD)	34.2° to 3.9° (HD)
Focus control	Auto / Manual	
Special features	NUC, Polarity, 3D Noise Reduction, VDE	

Colour Daylight Camera

Sensor	Progressive CMOS Scan
Resolution	1920 x 1080 pixels
Minimum illumination (sensor)	5 mLux
Horizontal Field of View	Continuous zoom - 66° to 1.1° (+/-5%)
Spectrum selection	NIR (Defog), Visible
Special features	WDR (> 120 dB), image stabilization
Accessory	Wiper

Pan & Tilt Platform

Pan Range	N x 360°
Tilt Range	+/- 85°
Speed	Pan: 0.03 °/s to 60 °/s – Tilt: 0.03 °/s to 30 °/s
Position Accuracy	< 0.1° (1.75 mrad) typical
Resolution	0.005° (87 µrad)

External Communication

Control	Extended Pelco D, ONVIF Profile S, Dedicated Protocol
Connection	D38999 connectors

Physical characteristics

Sealing	IP66 with optronic block nitrogen sweep
Operating Temperature	-20°C to +55°C (C2 & A1 climates according to MIL-STD-810G)
Storage Temperature	-32°C to +71°C
Environment	Compliant to standard MIL-STD-810
Dimensions	370 x 550 x 675 (h) mm
Total Weight	About 53 kg
Power Supply	20 – 28 Vdc
Power Consumption	< 250W

Theoretical DRI (thermal camera)

		5x (F150 mm)	9x (F225 mm)
NATO target (2.3m x 2.3m) <i>According to STANAG 4347 / TRM4 Software / 50% Probability / ΔT = 2 K / σ = 0.18 per km</i>	Detection (1 lp)	11.6 km	12.7 km
	Recognition (3 lp)	4.8 km	6.2 km
	Identification (6 lp)	2.4 km	3.6 km
Human Being target (0.5m x 1.8m) <i>According to STANAG 4347 / TRM4 Software / 50% Probability / ΔT = 2 K / σ = 0.18 per km</i>	Detection (1 lp)	5.9 km	7.3 km
	Recognition (3 lp)	1.9 km	3 km
	Identification (6 lp)	1 km	1.5 km

Specifications subject to change without notice. 10.2023

Options:

- Vigisens™ Software Suite
- Automatic target video tracking module, automatic detection and classification by Deep Learning
- Washer