

*New Range of Optronic solutions
designed for long distance
Surveillance*

NEMOSYS-LR™



Full HD day sensor



Cooled thermal sensor



Laser Rangefinder

A modular range of optronic solutions embedded on two -axis Pan and Tilt, including full HD colour camera, cooled (band II, MWIR) thermal camera, complementary GPS, DMC, LRF

It allows long distance surveillance, effective day and night, for the protection and the security of your sensitive sites .

- *Long distance all-weather observation*
- *Monitoring of sensitive infrastructures (Oil and chemical industries, nuclear power plants, etc.)*
- *Monitoring of borders and coastal areas*
- *Ports and airports surveillance*
- *Counter – UAV applications*





New range of optronic solutions
designed for long distance Surveillance

NEMOSYS-LR™

OMNICAM XVB 610 Pan & Tilt

- 2 motorized axis Pan & Tilt.
- Pan range: n x 360°
- Tilt range: up to +/-90° with stops
- Speed range (according to payload):
 - Pan: 0.005° to 60°/sec
 - Tilt: 0.005° to 40°/sec
- Position accuracy: < 0.1° typical
- Resolution: 0.005°

CAMEZOOM-FHD/Z64-1030 Day Camera

- Progressive CMOS sensor - Approx 2.1Mp
- Resolution: 1920 x 1080
- Sensor Minimum illumination:
 - 0.02 lux with F1.2 – 30 i/s (color)
 - 0.01 lux with F1.2 – 30 i/s (B/W)
- **Continuous Zoom : Optical 64x / Digital 4x**
- Focus control : Auto / Manual, Iris : auto
- Maxi aperture : F/2.6
- Max FOV : 17.8° x 10° / Min FOV: 0.29° x 0.16°
- Image format : 16:9



CAMIR Cooled Thermal Camera

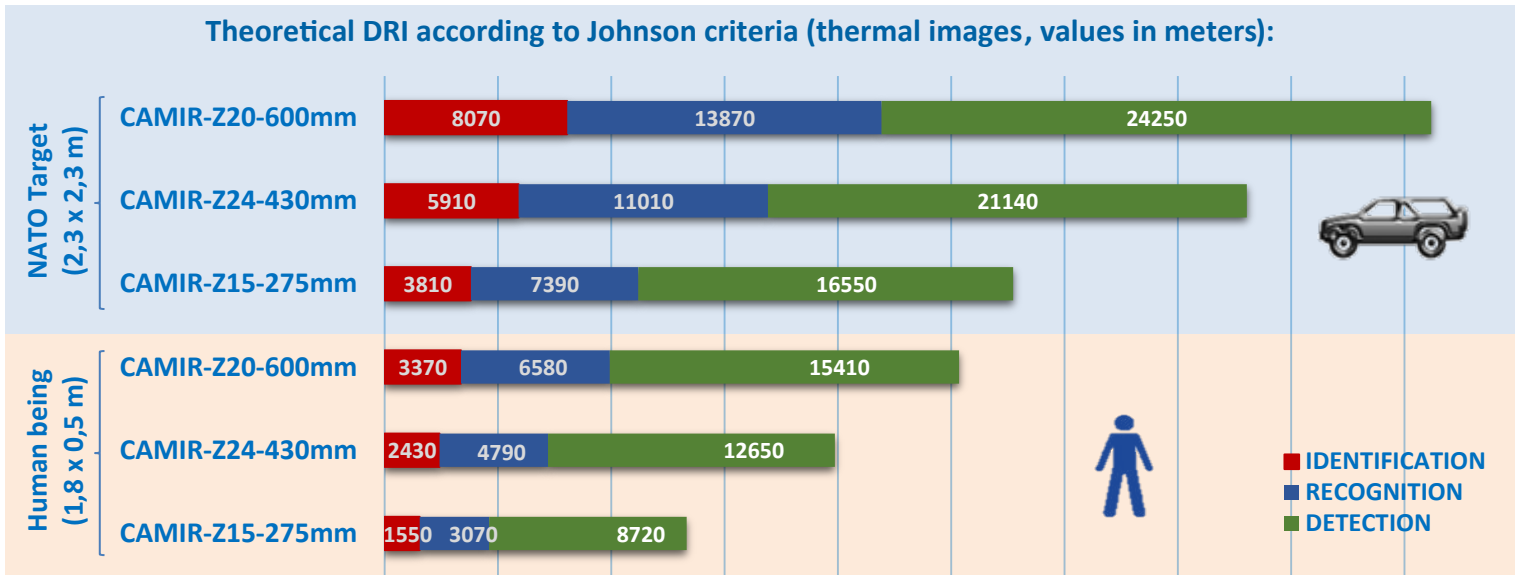
- Sensor: Cooled MCT (Made in France)
- FPA format : 640 x 512 pixels
- Pitch: 15 µm
- Spectral band: 3.5 to 4.8 µm
- NETD: 20 mK typical (<25 mK)
- Focus control : Auto / Manual



OPTICS Selection:

- **CAMIR/Z15-275**
 - **x15 continuous optical zoom – F = 18 to 275 mm, F/5.5**
 - Horizontal Field of view from 29.8° to 2°
- **CAMIR/Z24-430**
 - **x24 continuous optical zoom – F = 18 to 430 mm, F/5.5**
 - Horizontal Field of view from 29.8° to 1.28°
- **CAMIR/Z20-600**
 - **x20 continuous optical zoom – F = 30 to 600 mm, F/5.5**
 - Horizontal Field of view from 18.2° to 0.9°

Theoretical DRI according to Johnson criteria (thermal images, values in meters):



OPTIONS

- Front window cleaning system (by water and compressed air),
- Image stabilisation option : STABILEX/EMB,
- Control by TCP-IP or serial link,
- RADAR coupling,
- Complementary sensor integration (LRF, GPS, DMC...),
- Combination with long distance optical or acoustic sensors (ARCLIGHT-SYNCHROBEAM, Laser Dazzler, LRAD...).



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