

New Range of Optronic solutions designed for short distance Surveillance

NEMOSYS-SR™



Day colour sensor



*Uncooled thermal
sensor*

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

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

- Short 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





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ACCORDING TO CAMERA CONFIGURATION:

□ OMNICAM XVB204 Pan & tilt (IP67/IP68):

- Tilt range: - 90° / + 90° with blocker
- Pan range: 360° continuous
- Maximum speed (according to payload):
 - Pan: 1° to 30°/sec (typical)
 - Tilt: 0.5° à 15°/sec (typical)
- Pre-positioning accuracy: 0.3° (typical)
- Position accuracy: 0.02° (typical)

□ OMNICAM NVB500 Pan & tilt (IP66):

- Tilt range: - 75° / + 40° with blocker
- Pan range: 360° continuous
- Maximum speed (according to payload):
 - Pan: 0.01° à 60°/sec (typical)
 - Tilt: 0.01° à 30°/sec (typical)
- Pre-positioning accuracy: 0.1° (typique)
- Position accuracy: 0.02° (site et azimut)

□ CAMEZOOM-SD/Z36-122.4 Day camera

- CCD Colour 1/4 type Exview HAD
- Resolution: TV 550 Lines Horizontal
- Sensitivity colour: 0.1 lx
- Sensitivity B/W: 0.01 lx
- **x36 optical zoom – F = 3.43 to 122.4 mm**
- Field of view from 58° to 1.7° (H)



□ CAMEZOOM-FHD/Z30-129 Day camera

- CMOS Colour 1/2.8 Exmor full HD 1080/60p - 2.38Mp
- Resolution: 1920 x 1080
- Sensitivity colour: 0.01 lx
- Sensitivity B/W: 0.015 lx
- **x30 optical zoom – F = 4.3 to 129 mm**
- Field of view from 63.7° to 2.3° (H)



CAMIR-UC uncooled thermal camera

- Technology: Uncooled Microbolometer VOx
- Spectral bandwidth: 7.5 – 13.5 µm

- Pitch: 17 µm
- Resolution: 640 x 512 pixels
- NETD: 50 mK typical – 30 mK optional
- Operating Temperature: -10°C → +50°C



OPTICS Selection:

□ CAMIR-UC/F35 @ f/1.2

- **Fixed focal lens – F = 35 mm**
- Field of view: 18° (H)

□ CAMIR-UC/F100 @ f/1.0

- **Fixed focal lens – F = 100 mm**
- Field of view: 6.23° (H)

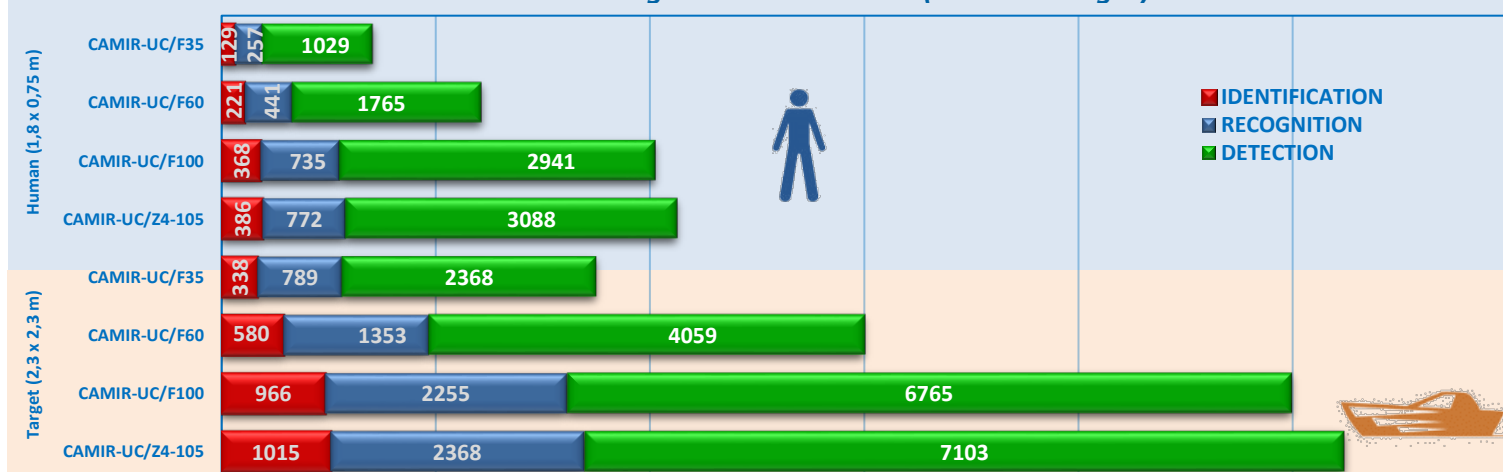
□ CAMIR-UC/F60 @ f/1.25

- **Fixed focal lens – F = 60 mm**
- Field of view: 12.42° (H)

□ CAMIR-UC/Z4-105 @ f/1.6

- **X4 optical zoom – F = 26 à 105 mm**
- Field of view from 23.6° to 5.9° (H)

Theoretical DRI according to Johnson criteria (thermal images):



OPTIONS

- Control by TCP-IP or serial link, extended temperature range...
- RADAR coupling,
- Combination with short distance optical or acoustic sensors (Projector, LRAD...).



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