



# Multispectral Surveillance System

## VIMOS-MSR



**VIMOS- MSR** is a modular system; its main components are:

- ▶ Color HD VIS camera [0.5 ÷ 0.8  $\mu\text{m}$ ]
- ▶ LWIR camera [7.5 ÷ 13.5  $\mu\text{m}$ ]
- ▶ SWIR camera with or without gating possibility [0.9 - 1.7  $\mu\text{m}$ ]
- ▶ Laser illuminator [1064 nm]
- ▶ Pan& Tilt Platform.

It complies with the following requirements:

- ▶ Power supply: MIL STD 1275
- ▶ Communication interface: RS 422/ RS 232, Ethernet
- ▶ Operating temperature: -20°C ÷ +55°C
- ▶ Operating humidity: 20 ÷ 80%
- ▶ Storage temperature: -20°C ÷ +60°C
- ▶ Video output: GigE Vision standard

### Technical characteristics

▶ For **LWIR spectral range:**

Field of view: 2 FOV-s: WFOV: 13.8 x 11 degrees/ 9.2 x 7 degrees (with 1.5x extender)  
NFOV: 4.6x 3.7 degrees/ 3 x 2.3 degrees (with 1.5x extender)  
Detector: 640 x 480 pixels ; NETD ave  $\leq$  35 mK for Fnr = 1.01; 25 Hz

▶ For **SWIR spectral range:**

5x continuous zoom lens : WFOV: 16 x 12.8 degrees  
NFOV: 2.9 x 2.3 degrees  
Detector: 320 x 256 pixels; min.25 Hz

▶ For **VIS spectral range:**

30x continuous zoom lens: WFOV: 63 degrees; NFOV: 2.3 degrees  
Detector: 1/2.8 Type Exmor CMOS Sensor

### Physical characteristics:

- dimensions: 540 (H) x 500 (W) x 500 (D) mm;
- mass: max 40 K g

*This product was developed under SafeShore project, System for detection of Threat Agents in Maritime Border Environment call H2020-BES-2015 , Proposal number 700643.*