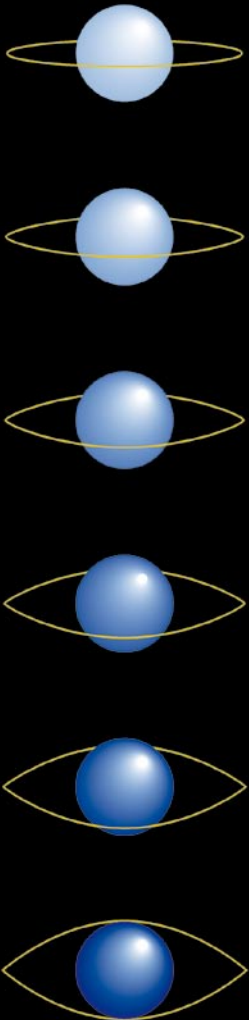
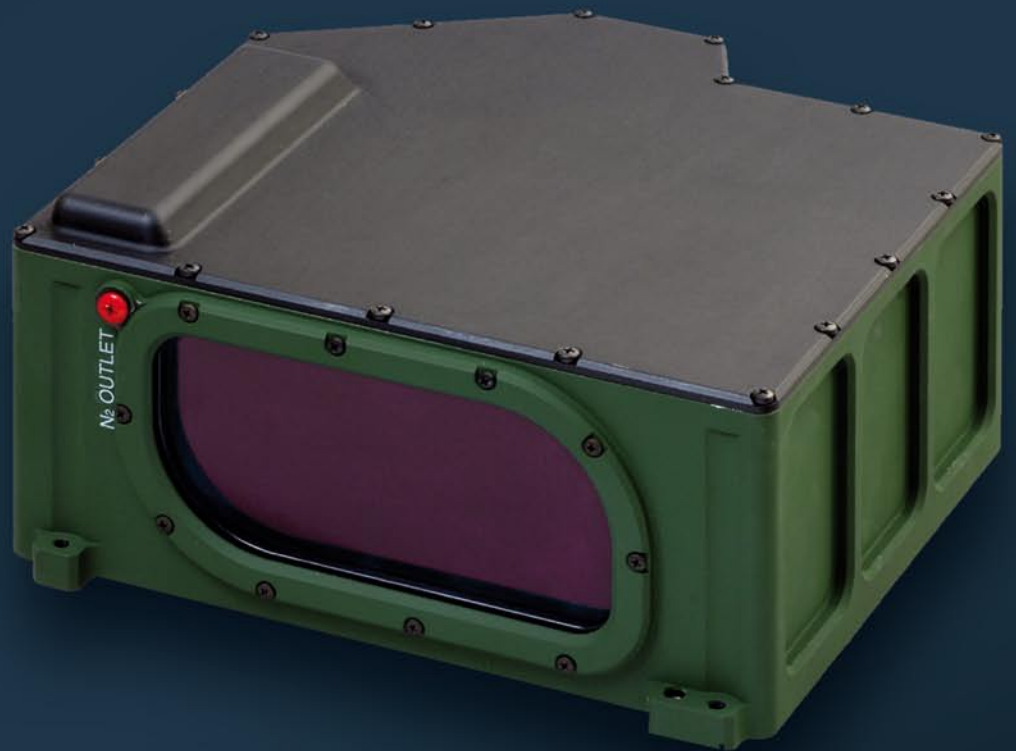


# VINIRIS-L

Visible and Near-InfraRed Imaging System





# VINIRIS-L

## Visible and Near-InfraRed Imaging System

### Description

Lightweight day optical module for combat vehicles. CCD camera (TV): 1/4" high resolution color CCD camera with x26 optical zoom and remote controls over the zoom, focus, AGC, shutter, etc. Eye safe Laser Range Finder (LRF): Compact, high-performance eye safe laser range finder at wavelength of 1.54  $\mu\text{m}$  incorporating boresight B/W narrow field of view CCD.

### Applications

- Combat vehicle observation
- Combat vehicle weapon stations
- Remote controlled and unmanned combat vehicles
- Lightweight weapons
- Vehicle weapon detection systems
- Fire control systems
- Urban warfare

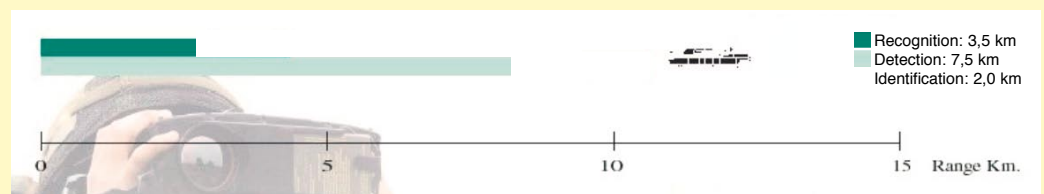
### Features

- Compact design
- TV camera for day observation
- Laser range finder for different targets and varying visibility conditions
- Selectable zoom fields of view for increased range
- Graphic overlay option
- Ruggedized for combat vehicle environmental conditions
- Remote control via communication link
- Interface to central command & control

### Quality

The quality management system applied by OIP Sensor Systems for design, development and manufacturing of opto-electronic systems, is compliant with and includes the requirements of ISO 9001:2000, AQAP-2110 Ed.2, ECSS-Q-20A and has been certified by the British Standard Institute under certificate N° FM 80768.

Range performance of VINIRIS-L at 3° x 2,3° FOV for a NATO target of 2,3m x 2,3m with 20km visibility



## TECHNICAL SPECIFICATIONS

### Camera

Sensor	: 1/4" colored CCD
Optical zoom	: 26 x
Sun Protection (auto)	: 100000 Lux 1120W/m <sup>2</sup>
Video output	: PAL or Y/C

**Weight** : 5,0 kg

**Dimensions (LxWxH)** : 212mm x 224mm x 109mm

**Environmentals** : Mil-Std-810F

**Shock and vibration** : Mil-Std-810F

### Temperatures

Operating	: -32°C to +55°C
Storage	: -33°C to +63°C

### Electronics & Power Units

EMC / RFI	: Mil-Std-461 E
Power Consumption	: 20W standby / 75W peak
Communication protocol	: RS485

### Eyesafe LRF

Technology	: Er:Glass Transmitter
Wave length	: 1.54 $\mu\text{m}$
False alarm rate	: < 1.0 %
Firing rate	: 10 ppm
Extinction ratio	: 38 db (500 m, 75% albedo)
Laser beam divergence	: 0.6 mrad
Minimum range	: 80 m
Maximum range	: 7000 m
Target at 20km visibility	: 2.3 m x 2.3 m, reflectivity 15%
Range accuracy	: 5 m (2 $\sigma$ )
Target discrimination	: 40 m - 50 m
Logic	: First/Last
BS camera 3° x 2.3° FOV	: B/W 1/2" CCD

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