

# LWIR SERIES

## MICRO RUGGED LWIR SENSOR



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### Light Weight, Powerful, Easy to use

The system integrates a super sensitive LWIR Sensor FLIR TAU2 640x512 providing perfect vision even in total darkness. The unit is all weather robust, lightweight and unobtrusive.



**ROBOTICS**



**PERIMETER**



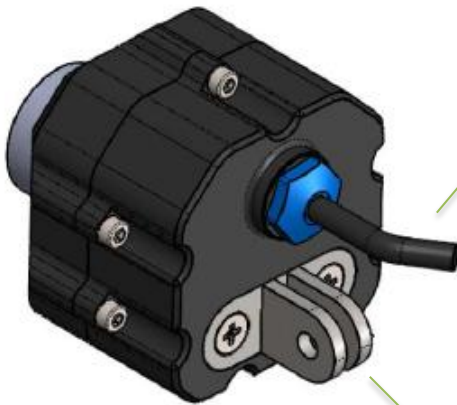
**DVE**



**VMD**



**SECURITY**

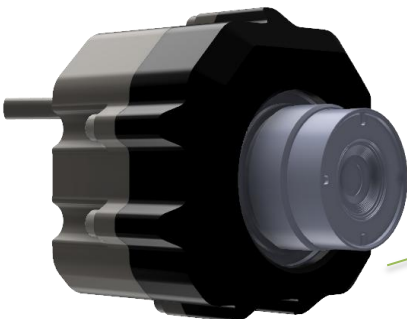


Ethernet (via Encoder)



CVBS (Analog)

Rotatable  
Mounting



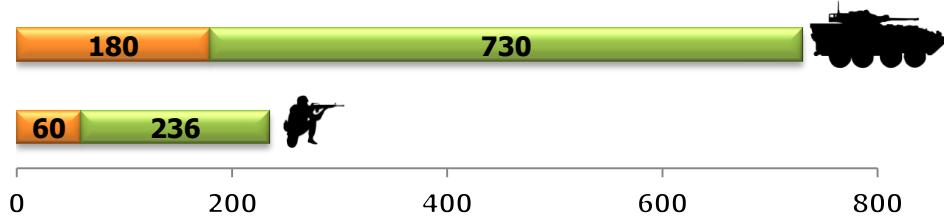
IP 67  
Anodized  
Alum. Chassis

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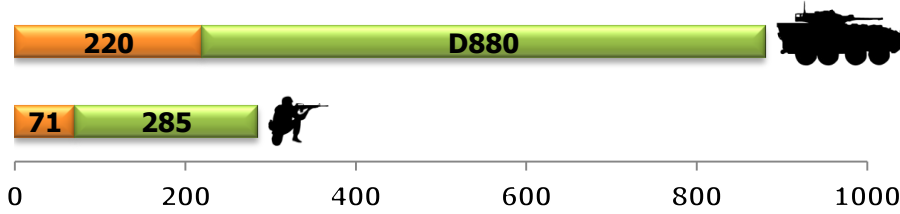
### 7.5mm Lens

Detection & Recognition Ranges (m)



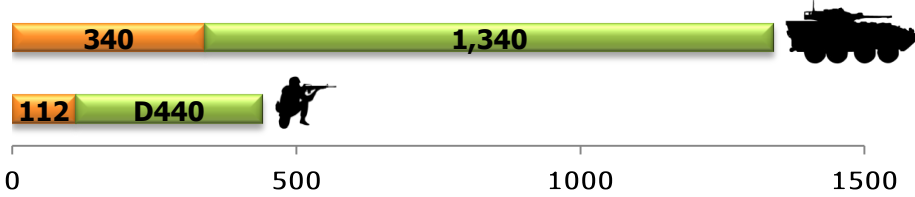
### 9mm Lens

Detection & Recognition Ranges (m)



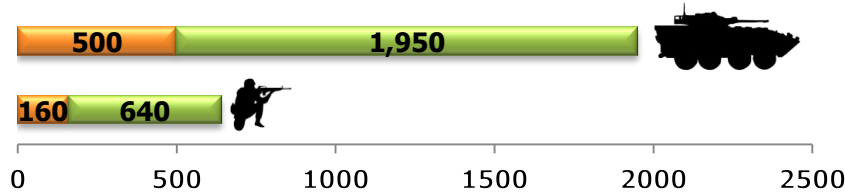
### 13mm Lens

Detection & Recognition Ranges (m)



### 19mm Lens

Detection & Recognition Ranges (m)

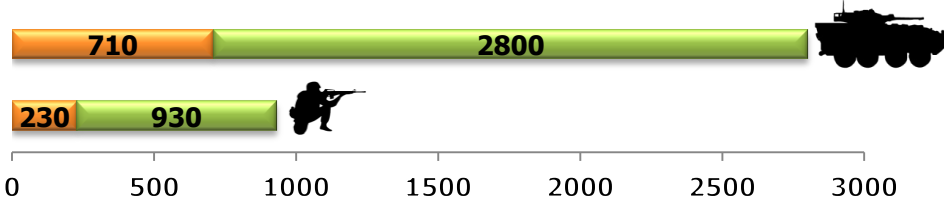


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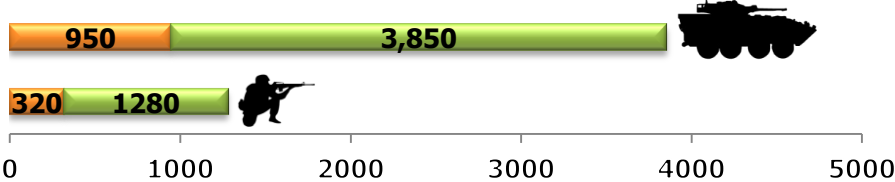
### 25mm Lens

Detection & Recognition Ranges (m)



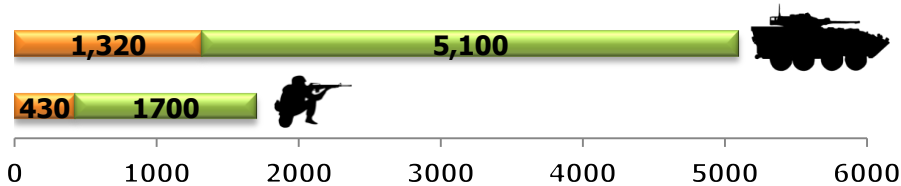
### 35mm Lens

Detection & Recognition Ranges (m)



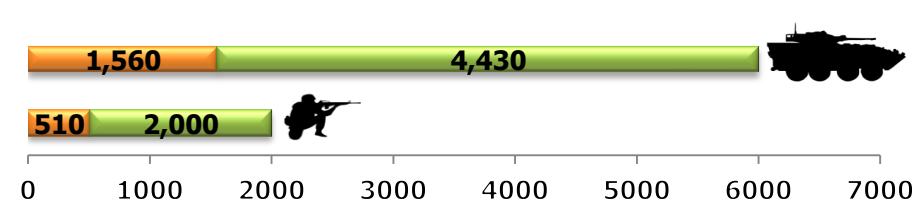
### 50mm Lens

Detection & Recognition Ranges (m)



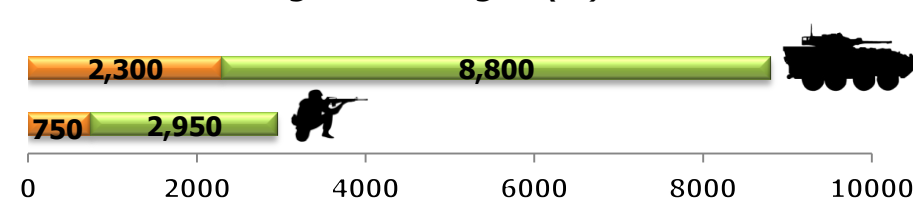
### 60mm Lens

Detection & Recognition Ranges (m)



### 100mm Lens

Detection & Recognition Ranges (m)



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Due to Nitrogen pressurization, the system is resistant towards challenging environmental conditions, such as water damage, failure of electrical, mechanical, and optical components.

### Reliability of Performance

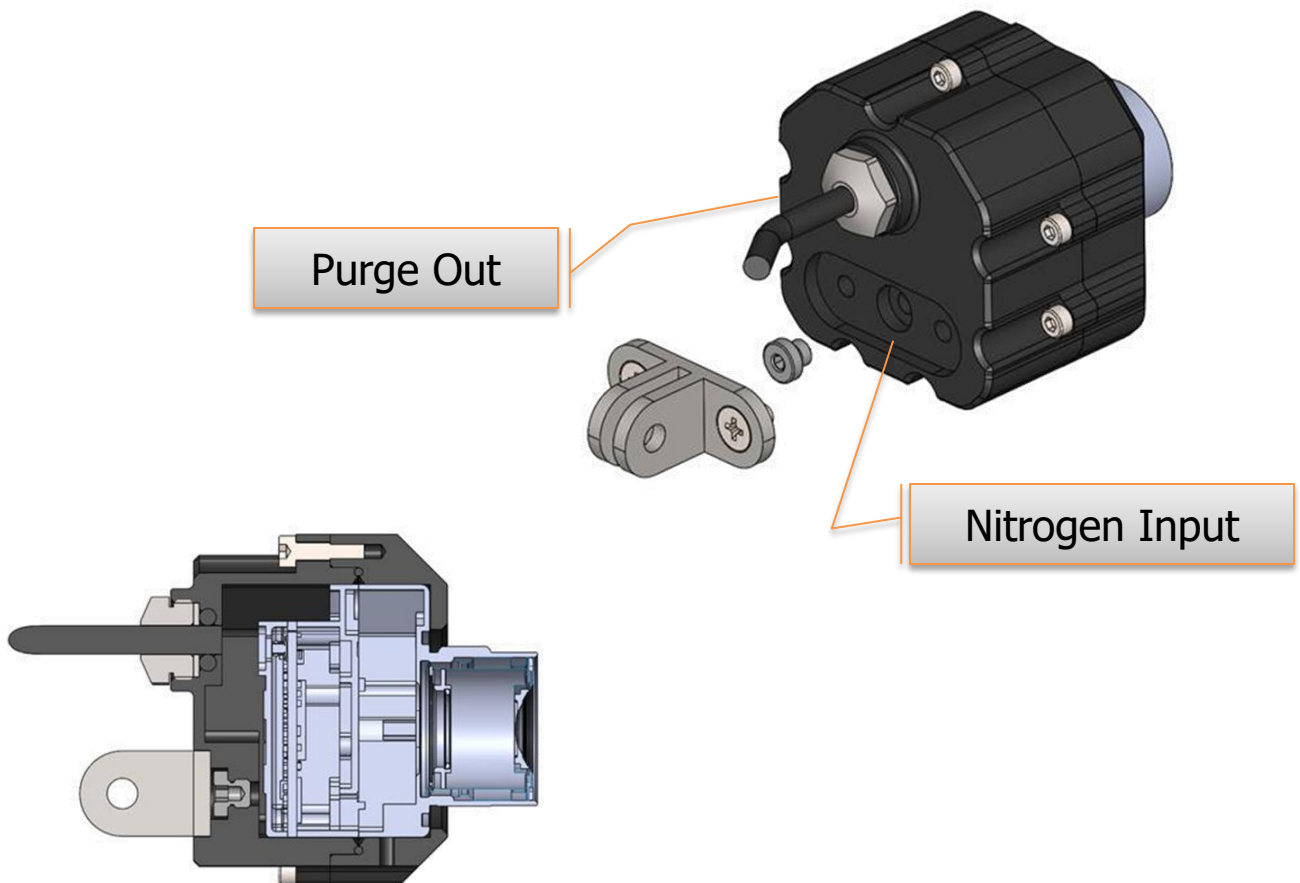
Sealing and pressurization ensure that electrical, mechanical, and optical components remain free from contaminants.

### Controlled Environment For Optics and Lens

A sealed and pressurized enclosure prevents condensation on the lens and interior of the housing faceplate.

### Corrosion Protection

No interior corrosion of circuit boards, solder joints, wiring, or metal parts.



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|                      |                             |
|----------------------|-----------------------------|
| Imaging Sensor       | Uncooled VOX Microbolometer |
| Resolution (pixels)  | 640x512                     |
| Thermal Lens         | 7.5 to 100mm                |
| Pitch                | 17 $\mu$ m                  |
| Spectral Band        | 7.5 - 13.5 $\mu$ m          |
| Frame Rate           | 9Hz / 30 Hz                 |
| Sensitivity          | <50 mK at f/1.0             |
| Max. Wide FOV        | 90° x 69° (7.5mm)           |
| Max. Narrow FOV      | 6.2° x 5° (100 mm)          |
| Input Supply Voltage | 4.0 - 6.0 VDC               |
| Nominal Consumption  | <1.2 W                      |
| Max. Consumption     | <2.5 W                      |

