

# PeriSight®



## Situation awareness system for ground vehicles

- Compact optronic modules for night & day vision
- Enhancement of situation awareness under degraded conditions
- Modular and scalable solution tailored to user needs
- Compliant with military standards (robustness, reliability, performance)



# PERISIGHT<sup>®</sup>

## SCALABLE OPTRONIC MODULE

PeriSight<sup>®</sup> is a 360° situation awareness system for vehicle, consisting in distributed optronic modules. Providing a panoramic vision around the vehicle, this equipment helps the driver execute complex manoeuvres, to avoid obstacles on the pathway, and to improve the crew's safety on board. Being compact, this embedded system can easily be integrated into any type of armored vehicle, at every stage of its life cycle.

Based on a scalable architecture, PeriSight<sup>®</sup> solution is composed of 4 to 8 optronic modules

### Core technology



#### VISIBLE

A state-of-the-art color image sensor provides high quality pictures in extreme low light conditions (~10 mlx) with no additional lighting.

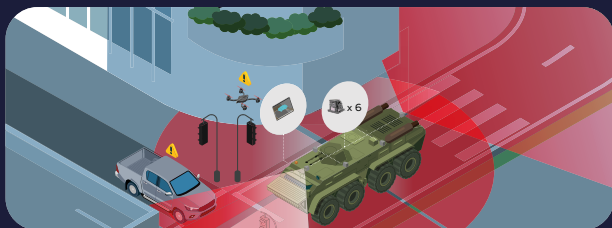


#### THERMAL

A high-resolution IR sensor increases detection of infrared radiation emitting objects in any night conditions (up to night 5).

### Scalable architecture

PeriSight<sup>®</sup> solution is fully scalable to better adapt to the vehicle type, the user needs and budget.



### Advanced automatic functions

PeriSight<sup>®</sup> modules are wired to a unique computing unit allowing electronic stabilization, automatic detection and tracking.

### Tailored service design

Bertin Photonics provides full integration services of the system. Videos are displayed on a screen, which is also used to control and command PeriSight<sup>®</sup>.

distributed on the platform, depending on the vehicle type and the user needs: driver vision enhancement, observation around the vehicle in urbanized areas or in open ground, detection of potential threats such as personnel, vehicles or unmanned systems, etc.

Compliant with military standards, PeriSight<sup>®</sup> is well adapted to extreme operational conditions, thanks to multiple vision modes: day, night, fused; raw or panoramic pictures.

### Technical features

<b>4X WFoV</b> (Standard configuration)	<b>HFoV night:</b>	105°
	<b>HFoV day:</b>	94°
	<b>Day detection range:</b>	980m* / 537m**
	<b>Night detection range:</b>	410m* / 233m**
<b>Dimensions</b>	< 20 x 17 x 21 cm	
<b>Weight</b>	< 3 kg	
<b>Video output</b>	Up to 50Hz - low latency HD-SDI and/or GigE vision	
<b>Input voltage</b>	7-24 VDC	
<b>Communication</b>	RS485	
<b>Military standards</b>	MIL-STD-810-G STANAG 4370 (Electromagnetic compatibility) IP68 (Protection rating)	
<b>Operating temperatures</b>	From -30°C to +50°C	