



PERISIGHT

Night & day vision enhancer for vehicle



- 360° Land Situational Awareness (LSA)
- Driver Vision Enhancer (DVE)
- Multiple compact optronics modules
- Operational in extreme driving conditions
- Ruggedized system, compliant with MIL-STD

Co-developed by:



and



PERISIGHT®

Night & Day Vision Enhancer for Vehicle

PeriSight® is a network of imaging sensor modules offering multiple viewing channels - color low light and thermal. The system provides **night and day 360° surveillance** in short range to enhance **Land Situational Awareness (LSA)**.

Patented smart low light/thermal fusion allows **Driver Vision Enhancement (DVE)**. Fully digital, PeriSight® enables additional key features such as shared user video stream, electronic stabilization, automatic detection and target tracking.

Developed to meet customers requirements, PeriSight® is compatible with any kind of vehicle.



Compact modular Optronics system in 4 steps:

1- MODULES DEFINITION

PeriSight® imaging sensor modules include colour low light and thermal sensors. Field Of Views are adapted on the application.



COLOUR LOW LIGHT

A state-of-the-art colour imaging sensor provides a first image in extreme low light conditions without additional illumination

POWERED BY **PHOTONIS**



THERMAL

A high-resolution thermal sensor provides the detection of people in any night conditions (up to night 5).

SMART FUSION

The embedded real-time image processing automatically selects the key information from each sensor to enhance field vision in night and day conditions.



2- VEHICLE POSITIONING EXPERTISE

Bertin Instruments, in partnership with Optsys, provides expertise in selecting the modules to the user needs, the vehicle type and its environment.

RUGGEDIZED BY **OPTSYS**



3 - DATA PROCESSING SOLUTION

PeriSight® modules are wired to a single electronic housing (VigiSight® 65) allowing electronic stabilization, automatic detection and tracking.



4 - INTEGRATION SERVICES

Bertin Instruments provides full integration services of PeriSight® system. Videos are displayed on a screen, which is also used to control and command PeriSight®.



Technical features

MODULES

FISH-EYE

HFOV NIGHT: 180°

HFOV DAY: 180°

Day detection range:

515m* / 218m**

Night detection range:

240* / 125m**

WFOV

HFOV NIGHT: 105°

HFOV DAY: 94°

Day detection range:

980m* / 537m**

Night detection range:

410m* / 233m**

DVE

HFOV NIGHT: 57.3°

HFOV DAY: 53.8°

Day detection range:

1700m* / 936m**

Night detection range:

750m* / 426m**

THERMAL SENSOR

UC 8-12µm

640x480@17µm

VISIBLE SENSOR

CMOS Low Light Colour

1280x1024p

DIMENSIONS

<20*17*21 cm

WEIGHT

<3kg

VIDEO OUTPUT

25Hz - HD - Colour

* 2.3m x 2.3m Vehicle

** 0.5m x 1.25m Person