

# Driver's Night Vision Viewers



## Features

- *Easy to operate*
- *Fitted with either Gen 2 or Gen 3 image intensifier tubes*
- *Large biocular lens allows image viewing with both eyes*
- *Powered from the vehicle's mains or from a lithium 3V lithium battery*
- *High logistics uniformity across range of viewers*
- *Built-in battery protect circuit*
- *Optional daylight training filter*
- *Optional laser protection filter*

## Description

*Theon Sensors offers a family of image intensified night driver's viewers for several types of armoured vehicles and main battle tanks (see table at the back page). With special-to-the-vehicle mounting bracket assemblies, the basic design can be fitted to almost any type of vehicle. The mounting bracket assembly allows the viewers to rotate left and right with respect to a central detent position for surveillance when the vehicle is stopped.*

*The viewers are installed (in most of the cases without tools or modifications to the vehicle) in a special opening of the driver's hatch, where available, or replace one, usually the central, day periscope. When not in use, the viewers are stored in a metal container.*

*The viewers are supplied with a 25 mm format of either 2nd Genera-*

*tion or 3rd Generation image intensifier tube and magnifier assembly. Both types of tubes offer Automatic Brightness Control (ABC) and Bright Source Protection (BSP). In addition to ABC and BSP, the viewers feature an Electronic Control Assembly that switches off the viewer when exposed to daylight conditions (4 foot - lamberts). The 3rd Generation image intensifier offers increased system resolution, 10,000 hours reliability and due to its fast phosphor, allows the user to drive the vehicle at faster speeds.*

*The large biocular lens allows the driver to view the image with both eyes from a large eye relief distance.*

*The viewers are powered either from the vehicle through a specific-to-the-vehicle power cable or from a 3-Volt lithium battery.*

*Operation is simple. There is only an ON/OFF-Brightness switch.*

THEON SENSORS S.A.

TÜV HELLAS



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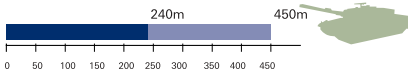
Headquarters:  
7 Stratigi St., GR-154 51,  
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Fax: +30-210-6728624

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Fax: +30-210-6644093

# Driver's Night Vision Viewers



■ identification  
■ recognition



## Technical Specifications

### Optical

Magnification	1X
Field of view (deg)	44° horizontal X 35° vertical
Resolution (Gen 3)	1.0 lp/mrad (minimum)
Resolution (Gen 2)	0.8 lp/mrad (minimum)
Depth of field	4 m to infinity
Objective focal length	33.6 mm
Objective f#	1.1
Eyepiece type	Biocular
Eyepiece focal length	63.9 mm
Eye relief	50 mm
Image Intensifier	25 mm Gen 2 or Gen 3
Electrical	Vehicle 28 VDC nominal or 1 x 3V Lithium Battery

### Manual

Operation and Maintenance Manuals are available for light, medium and heavy maintenance level.

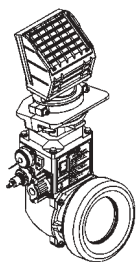
### Spare Parts

Listings are available for all level of maintenance.

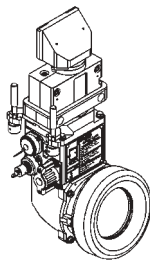
### Test Equipment

A complete line of test equipment is available to support driver's viewer maintenance and testing at light, medium and heavy maintenance levels.

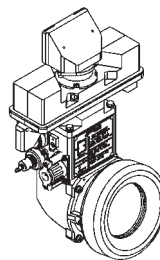
## Models exist for the following vehicles:



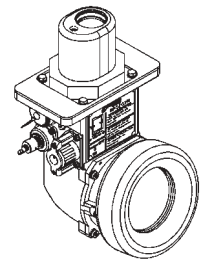
M113 NX-129A  
M48A5 NX-129A  
M60 NX-129A



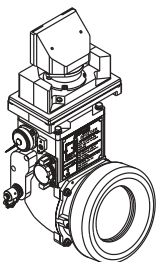
LEONIDAS NX-130A



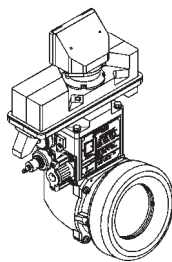
PIRANHA NX-145A  
CV90 NX-145A  
PANDUR II NX-145A



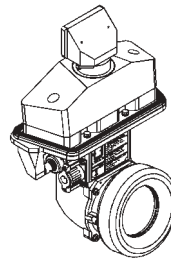
LEOPARD 2 HEL NX-148A



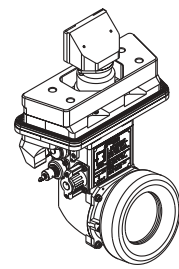
LEGUAN AVLB NX-149A  
LEOPARD 1 NX-149A



M113AS NX-199A  
PANDUR II NX-199A  
CV 90 NX-199A



PzH 2000 NX-175A



ARV LEO 2 HEL NX-175C  
LEOPARD 2A4 NX-175C