

Night Driver's 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 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.

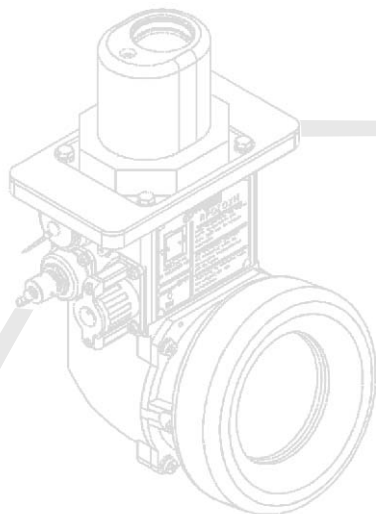
The mounting bracket assembly allows the viewers to rotate left and right with respect to a central detent position for surveillance when the vehicle is stopped. The viewers are installed (in most of the cases without tools or modifications to the vehicle) in a special opening of the driver's hatch, 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 Generation 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 and 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 control switch.



TÜV HELLAS



Factory:
57 Ioannou Metaxa St., GR-19400,
Koropi, Athens, Greece
Tel.: +30-210-6641420,
Fax: +30-210-6644093

e-mail: info@theon.com, URL: www.theon.com

Headquarters:
7 Stratigi St., GR-15451,
N. Psychico, Athens, Greece
Tel.: +30-210-6728610,
Fax: +30-210-6728624

 **Theon**
sensors

Night Driver's Viewers



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	4m 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

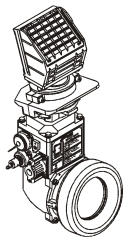
Image Intensifier

25 mm Gen 2 or Gen 3

Electrical

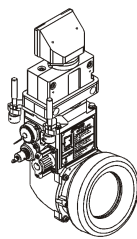
Vehicle 28 VDC nominal or 1X3V Lithium Battery

Models exist for the following vehicles:



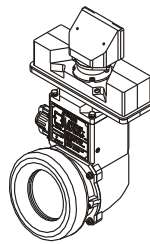
NX-129A

M113 M48A5 M60



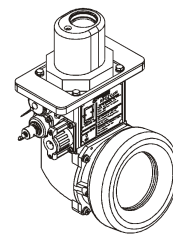
NX-130A

LEONIDAS



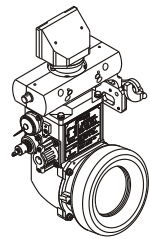
NX-145A

PIRANHA CV90 PANDUR II



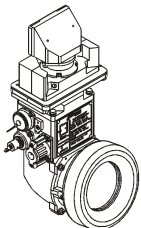
NX-148A

LEOPARD 2 HEL



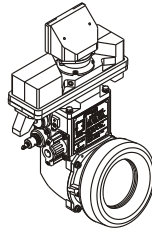
NX-119A

M113



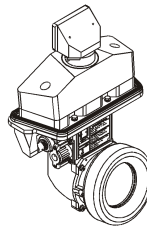
NX-149A

LEGUAN AVLB LEOPARD 1



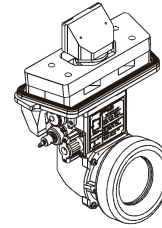
NX-199A

M113AS PANDUR II CV90



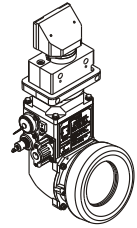
NX-175A

PzH 2000



NX-175C

ARV LEO2 HEL LEOPARD 2A4



NX-104A

PANDUR