



SELEX GALILEO

A Finmeccanica Company



DNVS 2 DUAL CHANNEL DRIVER'S NIGHT VISION SYSTEM

SELEX Galileo's Dual channel Driver's Night Vision System (DNVS 2) is a passive, multi-spectral, wide-angle indirect view observation system. Designed to enhance the operability of an armoured fighting vehicle, the DNVS provides optimum vision and improved situation awareness for today's 24-hour all-weather battlefield environment.

The DNVS 2 is in service with UK forces on a number of platforms and offers mature in-service technology with a planned upgrade path that allows for future growth and technology enhancements.

The DNVS 2 uses a combination of the latest high performance uncooled Thermal Imaging Technology and High performance colour CCD sensor to provide the operator with a clear image of the scene under view 24 hours a day and under conditions of smoke and other Battlefield obscurants.

The standard system configuration consists of the Dual Channel Server Unit and Drivers Display Unit. An optional rear sensor unit can be added to provide the driver unit with the ability to reverse the vehicle out of hostile situations with the hatches closed.

The DNVS 2 can be fitted as a stand-alone system to provide enhanced forward and reverse vision or as a part of an indirect vision system to provide a full 360° field of view.

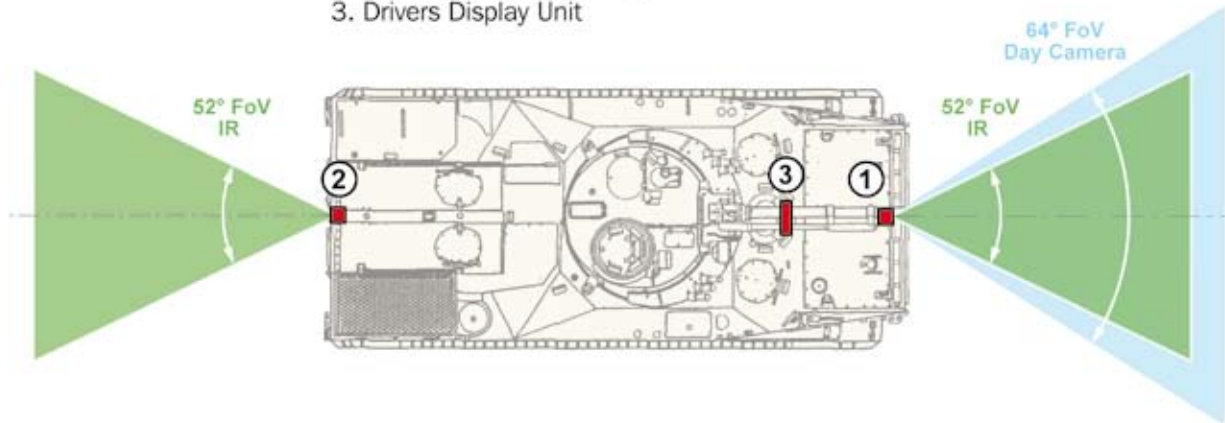
The use of a modular design provides maximum flexibility of installation across a wide range of vehicles whilst the use of common LRU's reduces the logistics burden and minimises fleet support costs.

KEY BENEFITS

- Optimised Drivers vision – Day and Night
- Improved situation awareness
- 24-hour all weather operating capability
- Modular construction fits most vehicles
- Near instantaneous operation
- Low through-life costs

DNVS 2 Dual Channel Driver's Night Vision System

1. Forward Sensor Assembly
2. Rear IR Sensor Assembly
3. Drivers Display Unit



DNVS 2 is a passive, multi-spectral, wide-angle indirect view observation system

TECHNICAL SPECIFICATIONS

Qualified for military armoured fighting vehicle use

Operating temperature	-32 to +55°C
Power consumption	36W Typical
Thermal Imager	
Spectral band	8 to 14 µm
Field of view	52° horizontal x 38° vertical
Detector type	uncooled micro-bolometer
Resolution	320x240 or 640x480 (subject to export license)
System NETD	Typically <50 mK
Video format	CCIR or RS 170
Recognition of a man	100 m
Daylight camera	
Field of view	64° horizontal x 48° vertical
Format	1/3" Colour CCD
Resolution	752 x 582
Sensitivity	0.8 to 100,000 Lux

Operational status

In service with the British Army on Titan, Trojan, Terrier and Viking vehicles

Options available

Integrated Auxiliary Sensors

CCD colour daylight camera

Low light level camera

Reversing Camera

Armoured cover with protective grille

The Driver's Sensor Unit (DSU) is a dual channel device that houses an uncooled thermal imager and colour CCD day camera. A removable wash/wipe system is provided to clear both channels of the sensor, and switchable heaters are incorporated in the windows to provide de-icing under very cold conditions.

The Driver's Display Unit (DDU) is a high performance multi function SVGA resolution display that has been designed for use in Armoured Vehicle. It utilises an 8.4inch colour LCD flat panel display with illuminated controls and indicators arranged around the screen. The LCD screen is protected by a toughened, anti-reflection coated glass plate and includes an EMC mesh screen.



Drivers Display Unit dimensions (mm)
Width 248mm, Height 160mm, and Depth 66mm



DNVS 2 dimensions (mm)
148 height, 270 depth, 275 width and 30 for the edge of the plate

For more information please email sales.marketing@selexgalileo.com

SELEX Galileo Ltd, A Finmeccanica Company

Christopher Martin Road Basildon, Essex, SS14 3EL, United Kingdom, Tel: +44 (0) 1268 522822, Fax: +44 (0) 1268 883140

This publication is issued to provide outline information only and is supplied without liability for errors or omissions. No part of it may be reproduced or used unless authorised in writing. We reserve the right to modify or revise all or part of this document without notice.

2010 © Copyright SELEX Galileo Ltd

www.selexgalileo.com

SELEXGALILEO\UK\Dsh-54\011001\mjpg