



SELEX GALILEO

A Finmeccanica Company



CARACAL SINGLE CHANNEL DRIVER'S NIGHT VISION SYSTEM - DNVS 3

SELEX Galileo's Caracal Driver's Night Vision System (DNVS) 3 is a passive, wide-angle indirect view observation system. Designed to enhance the operability of an armoured fighting vehicle, Caracal provides optimum vision and improved situation awareness for today's 24 hour all-weather battlefield environment.

Caracal is the latest generation DNVS and has been battle proven in service with the UK armed forces. The standard configuration consists of the forward looking IR sensor unit and Drivers Display Unit. An optional rear sensor unit can be added to provide the driver with the ability to reverse the vehicle out of hostile situations with the hatches closed.

Caracal can be fitted as a standalone system to provide enhanced vision, or as part of an indirect vision system to provide the vehicle with a full 360° field of regard.

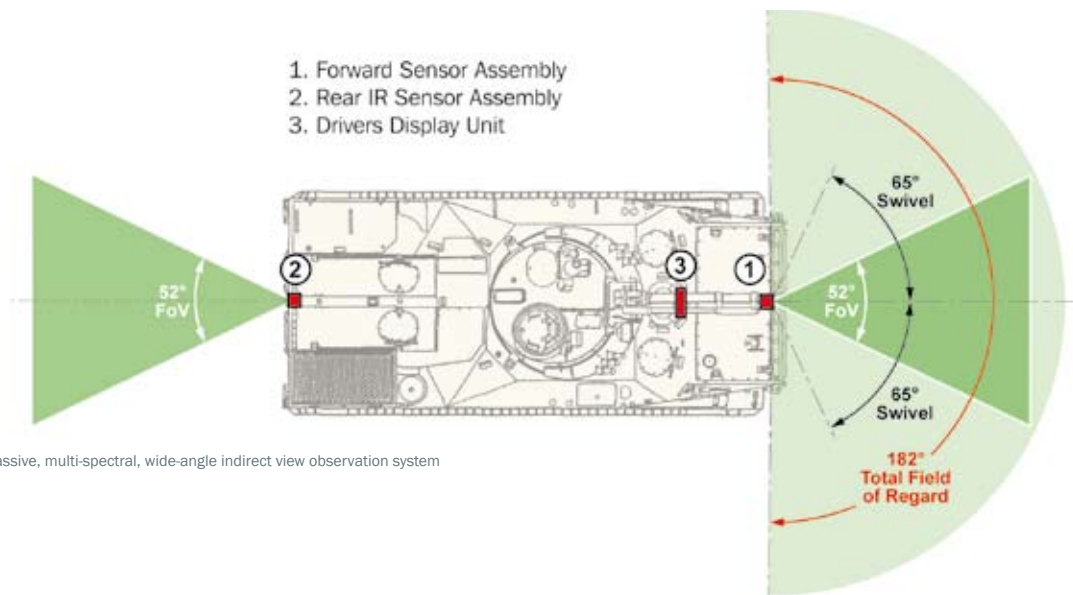
The use of a modular design concept provides maximum flexibility of installation across a wide range of vehicles, whilst the use of common LRU's reduces the logistics burden and minimises fleet support costs. Colour or Low Light CCD cameras are also available in the same housing.

The IR and colour sensors are interchangeable to allow vehicles to be configured against specific operational requirements.

KEY BENEFITS

- Optimised Drivers Night Vision
- Improved situation awareness
- 24 hour all-weather operating capability
- Modular construction fits most vehicles
- Near instantaneous operation
- Low whole life costs.

Caracal Driver's Night Vision System - DNVS 3



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

TECHNICAL SPECIFICATIONS

Qualified for military Armoured Fighting Vehicle use and protected mobility.

Operating Temperature	-32 to +55°C
Power Consumption	36W Typical

Thermal Imager

Spectral Band	8 to 14 μm
Field of View	52° horizontal, 39° vertical
Detector Type	uncooled micro-bolometer
Resolution	320x 240, 640x 480
System NETD	Typically <60 mK
Video Format	CCIR or RS 170
Human Detection	150 m

Day Light Camera

Field of View	90° horizontal. 68° vertical or 55° horizontal, 42° vertical
Format	1/3" Colour CCD
Resolution	752 x 582
Sensitivity	0.009 to 100,000 Lux

Operational Status

In service with the British Army on Challenger 2, MLRS, Ridgeback, Mastiff

Options Available

Wiper Module	
Protective Grill	
Commanders Display Unit	8.4 or 10.4 inch

The Caracal Driver's Sensor Unit (DSU) is a single channel device that houses an uncooled thermal imager. An optional wash/ wipe system and protective grille can also be provided for operation in adverse weather conditions and to protect the lens from damage from rocks and stones.

The Driver's Display Unit (DDU) is a high performance multi function SVGA resolution display that has been designed for use in Armoured Vehicles. 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.



Caracal dimensions (mm)
Height 82mm, Depth 181mm, Width of Sensor unit 142mm
Overall width including Wiper 199 mm



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

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\Dsh007\011001\mjpg