



DNVS 4 DIGITAL DUAL CHANNEL THERMAL/COLOUR CAMERA

SELEX Galileo's DNVS 4 is a passive, dual channel, wide-angle indirect view observation camera. Designed to enhance the operability of a military vehicle, DNVS 4 provides optimum vision and improved situation awareness for today's 24-hour all-weather battlefield environment.

DNVS 4 is the latest generation of the SELEX Galileo DNVS family. The new addition is based on the successful DNVS 3 camera, which is combat proven and in-service with the UK and other armed forces on more than 14 different vehicle types, both wheeled and tracked. The DNVS 4 camera contains both a 640x480 high resolution thermal imaging camera and a colour day/night camera to provide optimum vision and situational awareness 24-hours a day, and in conditions of smoke and battlefield obscurants.

The DNVS 4 camera provides both traditional analogue video outputs and digital video outputs (Def Stan 00-82 or GigE Vision). This enables full interchangeability between the current driver's night vision or local situational awareness systems, or future, fully digital, integrated vehicle electronics architectures (e.g. Def Stan 23-09 Generic Vehicle Architecture (GVA)).

KEY BENEFITS

- Digital output included for compatibility with the latest vehicle architectures
- Dual channel thermal imaging and colour CCD cameras in a single unit provide optimised 24-hour all-weather indirect vision for under-armour operation
- High resolution 640x480 thermal imaging sensor
- Larger field of view than standard DVE units provides improved situational awareness and reduced blind area
- Simultaneous video outputs available from both cameras
- Backward compatible with the previous generation of SELEX Galileo DNVS cameras
- Optional wash/wipe and soft cover
- Near instantaneous operation
- Low whole life costs.

DNVS 4 Digital Dual Channel Thermal/Colour Camera

DNVS 4 OUTPUTS

Analogue video outputs from the two cameras are available either simultaneously as two separate video outputs or switchable on a single video output. The DNVS 4 cameras are fully backward compatible and interchangeable with the previous generation of DNVS cameras.

Digital video outputs from the two cameras are available simultaneously from a single Ethernet connection.

DNVS 4 INTEGRATION

DNVS 4 can be integrated with a single display to provide enhanced driver's vision, or as part of a full local situational awareness system, such as Road Marshall, to provide the vehicle with a full 360 degree field of regard. DNVS is a modular design concept providing maximum flexibility of installation across a wide range of vehicles, whilst the use of common line-replaceable units (LRUs) reduces the logistics burden and minimises fleet support costs.

TECHNICAL SPECIFICATIONS

Qualified for Military Armoured Fighting Vehicle use and protected mobility.

Operating Temperature	-32 to +71 °C (including Solar Loading)
Weight	2.5Kg 6.6Kg (with Wash/Wipe Module)

Thermal Imager

Spectral Band	8 to 14µm
Field of View	52° Horizontal x 39° Vertical
Detector Type	Uncooled Micro-Bolometer
Detector Pixels	640 x 480

Integral CCD Camera

Colour CCD, switching to Monochrome at low light.

Sensitivity	1 to 100,000 Lux
Field of View	62° Horizontal x 46.5° Vertical
Detector Pixels	752 x 582
Detector Format	1/3" CCD
Resolution	>550 TV Lines in Daylight

Video Output Standards

Digital Video Format	Def Stan 00-82 or GigE Vision on 1000 BASE-T Ethernet
Analogue Video Format	CCIR or RS 170

Operational Status

In service with the British Army on wheeled and tracked vehicles.

Dimensions - Width x Height x Depth (mm)

DNVS 4	142 x 83 x 181
With Wash/Wipe Module	199 x 92 x 181

CONFIGURATION OPTIONS

Baseline Camera

DNVS 4 Dual Channel Thermal/Colour Camera



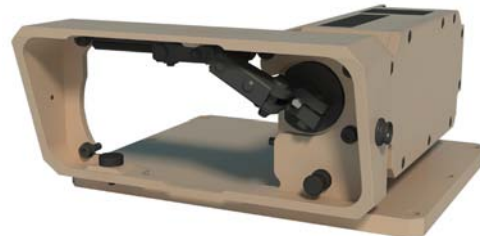
Camera Options

High Performance Colour Day/Night Camera ONLY
High Performance Monochrome Low-Light Camera ONLY

Canvas Cover (Optional)



Wash/Wipe Module



Wash/Wipe Module Canvas Cover (Optional)

