

C-NITE

The most advanced
3rd Generation Drivers
Night Vision Aid



The Future of Infrared Vision

C-NITE is a significant new aid to vehicle crews using Night Vision Goggles (NVG) or other Image Intensifying equipment. IR headlights fitted to most tactical vehicles usually are high power, but of low quality and poor design.

Used at night in tactical situations, ordinary IR headlights can inadvertently illuminate yourself, or your comrades and even assist the enemy in identifying and targeting friendly forces.

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C-NITE

Following an end user request C4i Systems developed and supplied its **C-NITE** Tactical Drivers Night Vision Aid to provide focused Infrared (IR) illumination tuned to support night vision systems within the 940nm wavelength.

C-NITE provides a dedicated twin beam for near and far field illumination that reduces the IR illumination spread and the resulting detection by enemy forces. When designing the **C-NITE** product extensive research and development was conducted to ensure that the EMC emissions of the IR beams did not disrupt or interfere with the on board communications and vehicle management systems



IR Specification

The unit has been designed to give flexibility to the user when specifying the power and composition of LED and lens configuration.

LEDs are covert 940nm units. Range dependant on requirement, each LED has power options which can be chosen to best suit the platform requirement. Once the LED is decided upon a wide variety of lens configurations are available to tune the output.

In this configuration two low power 940nm (zero lux) LEDs have been fitted with 14° and 36° lenses to provide wider near field driving illumination with bore sight spot illumination along the direction of travel.



Safety Advice

Depending on the mode of operation, these devices emit highly concentrated non visible infrared light which can be hazardous to the human eye. Products which incorporate these devices have to follow the safety precautions given in IEC 60825-1 and IEC 62471.

Key Features:

- Rugged Aluminium enclosure.
- Tested to Land Class A EMC (DEF STAN 59-411).
- Billet milled from T6 aluminium for the highest physical integrity.
- Conductively coated prior to IRR Powder coating Desert Tan Matt/ NATO Green or Black (DEF-STAN 80-122/1).
- Solid conductive IP67 EMI gasket and 100 opi cast mesh window.
- Helicoiled M10 pivot fixing with M6 fixing to lock the unit into position.

Specifications:

- Supply: 9 to 36VDC (9V Absolute OFF and 36V Overvoltage cut-off).
- Suitable for both 12V and 24V vehicle systems.
- Power: 4.8W 0.4A @ 12VDC.
- LED: 2 x 940nm (Zero Lux) each LED Total Radiant Flux of 500mW.
- Lens: 1x +/- 7° Spot, 1X +/-3° x +/-18° oval pattern
- Weight: 1Kg (with mounting bracket).
- Size: 143 x 75 x 76mm (W x H x D).



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