

# Cats Eyes

*The Unique Aviators Night Vision Goggle*

- *Unique combiner night vision goggle*
- *Full binocular night vision*
- *Compatible with all Head Up Displays*
- *Full colour display compatibility*
- *Flight proven (fast jet and carrier)*
- *In service on F-18/ AV-8B and other aircraft*
- *In production*



**GEC-Marceni**

# Cats Eyes Night Vision Goggles

GEC-Marconi's Cats Eyes Night Vision Goggles (NVG) System allows for the combination of both a direct visual and an intensified image to be presented to the pilot's eyes. The two images are combined in a 1:1 relationship and complement each other. The benefits of the system have been extensively proven in low level night attack flying trials in a fully integrated NVG compatible cockpit including Forward Looking Infra-Red (FLIR) generated head-up display imagery and a head-down multi-function display.

The system's advantages are many. Since the head-up display is seen through a direct visual path it is not degraded by unnecessary image intensification as it would be with conventional NVG systems. Additionally the direct vision path through the optical combiner arrangement makes monitoring cockpit displays and instruments considerably easier, whilst the ability to scan either side of the combiners enhances peripheral vision ensuring better spatial awareness. The direct vision path also removes problems normally associated with light to dark transitions as the intensified image becomes progressively more noticeable as the direct image fades. The system is compact and rugged and the restriction on head mobility imposed by the depth of conventional NVG systems is avoided.

Finally, whilst the system incorporates a single handed quick release mechanism for the helmet interface, it can be configured to include an automatic separation system on ejection.

## Status

In production. Selected as the standard NVG system for the US Navy and Marine Corps fixed-wing tactical aircraft. Over 800 systems are now in service with the US Navy which are fully qualified to carrier EMC and environmental requirements.

## Contractor

GEC-Marconi Avionics



## Specifications

Weight including mount and helmet bracket	0.82Kg
Field of View (circular)	30°
Magnification	Unity
Eye Relief	25mm (1")
Exit	10mm (0.4")
Resolution	>.89 cycles per mR

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