

KNIGHTHELM
Helmet Mounted Display



24hr Mission Capable Helmet System

A 24 hr mission capable helmet system. This 40° Field of View Helmet incorporates a one piece module for both day and night mission requirements. For low visibility and operating during night missions the helmet will display both light intensified images from third generation image intensifiers or Forward Looking Infra Red (FLIR) imagery from a FLIR sensor. This, together with full flight and weapon information is projected onto two clear combiners placed in front of each of the pilots eyes which can be flipped up out of the line of sight to enable full uninterrupted vision or to interface with the gunners sight for helicopter applications.

The ability to optically mix the image intensified channel with FLIR imagery provides the absolute integrity of external scene information essential for night operation of rotary wing aircraft in a nap of the earth environment.

Sensors and weapons are interfaced to the helmet system via GEC's Advanced Head Tracking system which is a pulsed DC system for deriving the line of sight of the helmet. The system comprises three functional components:

A Transmitter Receiver and Signal Processing Unit. In addition, a small control panel may be necessary depending on avionic system architecture.

Outline Specification

| | |
|---------------------------|----------------|
| • Field of View | 40° (combiner) |
| • Exit Pupil | 15mm |
| • Eye Relief | 30mm |
| • Weight | 2.2 Kg |
| • Eyepiece | Stowable |
| • Tracker Static Accuracy | 0.2° |
| • Azimuth | ±180° |
| • Roll | ±180° |
| • Pitch | ±90° |

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