

Eurofighter 'Typhoon' Integrated Display Helmet



EUROFIGHTER HELMET - THE TOTAL SOLUTION

Selected to meet the stringent requirements of the Eurofighter, the BAE SYSTEMS "Striker" Integrated Display Helmet provides 24 hour, all weather, all attitude operation over the full combat flight envelope. Capabilities include weapon/sensor slaving with real world overlay of flight parameters, sensor data (e.g. FLIR), target cueing, weapon status and night vision. These are designed to maximise effectiveness across the whole spectrum of tactical missions.

- Lightweight, integrated, two part design
- Safety, protection and comfort optimised
- Full day/night and adverse weather capability
- Fully overlapped, 40°, binocular display
- Detachable night vision cameras.
- Stable under high g
- Positive pressure breathing
- High accuracy, low latency head tracker system
- Integrated NBC and Laser protection variants
- Advanced audio system provision

BAE SYSTEMS

Integrated Display Helmet

The innovative, two part, helmet has been co-developed with aircrew and logistic support engineering participation, the single size helmet being custom fitted to cover the specified anthropometric range of head sizes. The helmet combines superior ejection protection with comfort and stability in a lightweight supportable design built around a state of the art display system. Additional safety is provided by positive pressure breathing (for g-loc protection) together with laser and NBC protection. An advanced optical head tracker is integrated into the helmet system to provide a high accuracy/low latency solution which does not require cockpit mapping.

Whilst the system has been designed for the Eurofighter, its modular design can be applied to all platforms, both rotary and fixed wing. In particular, night vision cameras provide a night and low light capability. These are fully detachable as required to provide a low mass day configuration.

Programme Status: Nearing completion of development. Series production deliveries commence in 2002.

MAIN FEATURES

- **Head Supported Mass** (incl. Oxygen Mask and twin visors): 1.9 kg (day), 2.3 kg (night).
- **Ejection safe:** >600 knots.
- **Display:** Dual High Resolution CRTs, Stroke/Raster/Mixed Modes.
- **Field of view:** 40°, Binocular Fully Overlapped.
- **Exit pupil:** >15 mm.
- **Eye relief:** >50 mm.
- **Night Vision Cameras:** Two CCD, Gen3 Omni4 Night Vision (0.5 mlux), Detachable.
- **Head Tracking:** High Accuracy/Low Latency Optical.
- **Visors:** Two (Blast/Display and Glare or Laser).
- **Supportability:** Modular Design, Built-in Test.
- **Environmental Protection:** Integrated NBC Variant. Active Noise Reduction.
- **Aircraft Interfaces:** High Speed Serial Datalink, Forward Looking Infra-Red (FLIR), Communications (Direct Voice Input Compatible), Life Support (Positive Pressure Breathing).



FOR MORE INFORMATION CONTACT

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