

Eurofighter Typhoon Integrated Display Helmet

MAIN FEATURES

Selected to meet the stringent requirements of the Eurofighter Typhoon, 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.IRST (infra-red search and track), target cueing, weapon status and night vision. These are designed to maximise effectiveness across the whole spectrum of tactical missions.

- Lightweight, integrated, two part helmet design
- UK standard head protection and comfort under g
- 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 Chemi-Bio and Laser eye protection
- Advanced audio system provision



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Integrated Display Helmet

The innovative, two part, helmet design has been co-developed with aircrew and logistic support engineering participation, the helmet range covers the specified anthropometric range of head sizes (female and male aircrew). 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 Chemi-Bio protection. An advanced optical head tracker is integrated into the helmet system to provide a high accuracy/low latency solution for low, medium, and high altitude operations.

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. Extensive flight trials have been carried out to verify the acceptability of the helmet for high performance fighter aircraft.

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: Solid state sensor, Gen3 Omni4 Night Vision (0.5 mlux), Detachable

Head Tracking: High Accuracy/LowLatency Optical

Visors: Two (Blast/Display and Glare or Laser)

Supportability: Modular Design, Built-in Test

Environmental Protection: Integrated Chemi-Bio Variant

Active Noise Reduction (Optional)

Aircraft Interfaces:

- High Speed Serial Datalink,
- Forward Looking Infra-Red (FLIR)
- Communications (Direct Voice Input Compatible)
- Life Support (Positive Pressure Breathing)

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