

The background of the advertisement is a high-contrast, orange-toned photograph. It depicts the silhouette of a fighter jet's cockpit and canopy in the center, with a control tower visible to the right. The sun is low on the horizon to the left, creating a bright glow and casting long shadows. The overall mood is dramatic and technological.

MARCONI  
AVIONICS

# Diffraction Optics Head-up Displays

the LANTIRN solution...



# the LANTIRN solution...

Marconi Avionics was selected by the USAF in open competition to develop wide field-of-view Head-up Displays for the LANTIRN programme. The HUDs offer raster video derived from FLIR sensors, together with superimposed flight and mission symbology written during the raster vertical retrace period. The system comprises two line replaceable units (LRUs), a pilot's display unit (PDU) and an electronics unit (EU) built to the latest

specifications. The pilot's control panel is remoted in the case of the A-10 due to cockpit restraints.



## MIL-STDs

1589B

MIL-STD

MIL-STD



1553B

MIL-STD

1750A

## Power Consumption

PDU 65W  
EU 220W

## MTBF

PDU ≈ 1200 HRS  
EU > 2000 HRS





## A-10 Thunderbolt II

- Retrofits into existing HUD space
- IFOV 19° EL x 30° AZ allows aggressive LL maneuvering day and night
- Features fully computed weapon aiming modes
- Large binocular FOV overlap



PDU



## F-16 Fighting Falcon

- Retrofits into existing HUD space
- IFOV 17° EL x 30° AZ
- Design optimised for F-16 multi-role capability
- Provides "canopy-off" protection to pilot
- Highly accurate symbol positioning with canopy compensation



PDU



Unless Marconi Avionics Limited has accepted a contractual obligation in respect of the permitted use of the information and data contained herein such information and data is provided without responsibility and Marconi Avionics Limited disclaims all liability arising from its use.

Sponsored by: United States Air Force, Aeronautical Systems Division, Wright Patterson Air Force Base, Ohio

---

**Marconi Avionics Limited**

**Airborne Display Division**

Airport Works Rochester Kent England  
Telephone: Medway (0634)44400  
Telex 96304

**MARCONI**  
**AVIONICS**