

# Low Profile Head-Up Displays

For next generation fighter jets



Elbit Systems' Low-Profile Head-Up Display (LPHUD) series comprises a range of narrow neck HUD systems.

**Purpose-built for advanced fighter jets** – Compatible with advanced 4<sup>th</sup>, 4.5 and 5<sup>th</sup> generation fighter aircraft, these digital HUDs feature a Large Area Display (LAD) and can be adjusted to the specific cockpit's configuration using either flat or curved combiner design.

**Advanced technologies** – The enhanced, high-brightness HUD display offers a wide field-of-view (FOV) capable of displaying high-resolution sensor imagery with overlaid symbology (Stroke on Raster). The systems in this series utilize an innovative digital image source offering increased reliability. Elbit Systems' LPHUD series can interface with both a legacy analog deflection interface as well as a modern high-speed digital bus (e.g. ARINC-818). The series is fully compatible with NVG equipment.

**HUD of choice for industry leaders** – Elbit Systems' superior quality HUDs are regularly selected by some of the top aviation companies in the world. The Elbit Systems' LPHUD solution is currently in use in advanced fighter cockpits such as the Boeing F-15 and F/A-18, and the SAAB Gripen E/F.

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The low-profile HUD series for military and combat training aircraft is part of Elbit Systems' extensive HUD portfolio designed and developed by its ISTAR Division – the primary electro-optics provider for the Israeli Defense Forces. Elbit Systems' HUDs leverage decades of experience as world leaders in HUD design and delivery and are fully-proven and flight tested on thousands of aircraft in the field, including those of some of the worlds' leading armed forces and commercial companies.

### Operational Features

- Wide FOV design
- Large Head Motion Box (HMB)
- High image brightness
- Enhanced symbol quality
- Superior video image quality
- High MTBF

### Maintenance and Integration Features

- Digital interface
- Digital image source
- Advanced electronics
- Computerized automatic test & calibration
- Intensive Built-In Test (BIT)

### Technical Data

#### Modes of Operation

- Day/Night/Automatic brightness
- Symbology/Video with overlaid symbology

#### Optical System

- Curved or flat combiner design
- Combiner transmission: >75%
- Brightness >2,500fL symbol and video
- NVG compatible display

#### Power Supply

- 28 VDC or 115 VAC/400 Hz
- Power dissipation: <160 watt

#### System interface

- Analog X Y/ARINC-818/ARINC-429/Discrete

#### Certification

- In accordance with DO-254 Design Assurance Level A

#### Environmental Standards

- In accordance with MIL-STD-810 or equivalent



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