

# ELH-10/12/15

Advanced situational awareness capabilities with Enhanced Flight Vision System (EFVS) and Combined Vision System (CVS)



Providing outstanding performance and enhanced safety capabilities, Elbit Systems' civilian aircraft overhead HUD series (ELH-10/ELH-12/ELH-15) is designed for commercial and business jets.

**Advanced capabilities** – An Enhanced Flight Vision System (EFVS) incorporating a Synthetic Vision System (SVS) and a Combined Vision System (CVS) offers the pilot a range of operational capabilities as well as increased safety and an unprecedented level of situational awareness. EFVS integration also allows for licensing advantages and landing credit such as per FAA FAR 91.175 (l) and (m).

**High-quality digital image source** – All models in the series feature an enhanced video, high-resolution display with a 40° x 30° wide Field-of-View (FOV) and overlaid symbology. Utilizing a highly-reliable digital image source, these systems are certified as a primary flight display by EASA.

**Safety features** – Additional safety features are offered in the form of a foldaway combiner with a specially designed breakaway position, which allows the HUD to be stowed away when not in use. Elbit Systems' civilian HUD line is developed in accordance with the highest industry standards, such as DO-254/DO-178 Design Assurance Level A.

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### HUD of choice for commercial aviation leaders –

The ELH HUD series is EASA certified and in operation on the Dassault Falcon family including the F8X, F900 and F2000 aircraft, as well as the MD-10, MD-11 and CL-604.

The ELH HUD series for civilian 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 a world leader in HUD design and delivery. They are fully-proven and flight tested on thousands of aircraft in the field including those of some of the world's leading armed forces and commercial companies.

### Operational Features

- Wide FOV 40° (H) x 30° (V) (total and instantaneous)
- Large Head Motion Box (HMB)
- High image brightness > 3,400 fL
- 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

- Single curved combiner
- FOV: 40° x 30° (total/instantaneous)
- Combiner transmission: 80% uniform
- Color: shades of green/black

#### Power Supply

- 28 VDC
- Power dissipation < 80 watt

#### System Interface

- ARINC-818/ARINC-429/FC/Discrete

#### Physical Specifications

- Weight: 16kg

#### Certification

- In accordance with DO-254/DO-178 Design Assurance Level A
- Environmental standards in accordance with DO-160 or equivalent



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