

ULTRA-HUD

Low-Profile Next-Generation HUD



In today's modern aircraft cockpits, Large Area Displays (LADs) are added to the front panels, making it essential that Head-Up Displays (HUDs) are as thin as possible with low-profile necks.

Elbit Systems - with more than 5 decades of experience, having delivered thousands of HUD systems, integrated on various aircraft types - has developed ULTRA-HUD to address these requirements.

Representing a substantial leap forward in performance compared with conventional HUDs, ULTRA-HUD provides an extremely narrow neck profile as well as 50% smaller volume and 30% lighter weight, enabled by Elbit Systems' proprietary optical waveguide technology. This advanced technology also ensures a highly optimized and uniform image, with no artifacts and negligible planar distortions under a harsh environmental envelope.



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The ULTRA-HUD's all-digital display components create a high-resolution, super-bright, wide field-of-view display, with a significantly larger Eye Motion Box. Crisp and clear symbology and sharp sensor imagery, are visible to pilots under Under day or night and are NVG-compatible.

Easy to integrate into existing and future cockpits, ULTRA-HUD is an ideal match for cutting-edge wide-area displays.



Key features

Optics	Waveguide
Neck Dimension	>2"
Weight	18 kg
TFOV	25°(h) x 20°(v)
Brightness	>2,500 fL
Contrast Ratio Against 10,000 fL	>1.35
Display Resolution	2560 x 1600 pixels
Eye Motion Box	7.5"(h) x 3.5"(v) x 8"(l)
Combiner Transmission	>70%
NVIS Compatibility	Class C
Interfaces	ARINC-818, RS-422
Power	120 W



ULTRA-HUD Installation Illustration in Trainers, such as the T6



ULTRA-HUD Installation Illustration in Civil Aviation, such as the Falcon



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