Helicopter ClearVision™

Clearvision™ Packages
Visionary Avionics

We provide cutting-edge electronic avionics systems and advanced cockpit technologies for commercial aviation platforms of all segments. Building on four decades of experience in the aerospace market, our pilot-centered development team leverages field-proven technologies to produce a specialized range of vision systems for the commercial aviation market.

Our commercial product line of EFVS combines a unique ClearVision™ family of HUDs and HMDs, with SVS, real-time EVS, and Combined Vision Systems (CVS).

Our industry experience, commitment to our partners, and world-class aviation electronics solutions are relied upon by leading aerospace companies around the globe.

Our experience in critical Design Assurance Level A systems includes cockpit displays, processing units, display generation computers, and advanced mission applications.

We have a 30 year legacy in the field of HMDs, with over 10,000 operational systems in service and more than 2 million operational hours logged to date. Our line includes both helmets and visors, each with a head-tracking algorithm.

Helicopter ClearVision™

FROST & SULLIVAN

2014

BEST
PRACTICES
AWARD

GLOBAL COMMERCIAL AVIONICS
NEW PRODUCT INNOVATION LEADERSHIP AWARD

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Helicopter ClearVision™

Achieving higher mission completion rates, enhancing safety levels in adverse flying environments, and reducing operational costs are more feasible than ever using advanced onboard electronic systems. Whether the mission is corporate, search and rescue, offshore marine, law enforcement or emergency medical, Elbit Systems' helicopter avionics solutions can be customized for operational success.

As a premier technology and innovations house, and as a leading supplier of helmet-mounted displays (HMD), Elbit Systems provides avionics systems and advanced cockpit technologies for commercial aviation platforms.
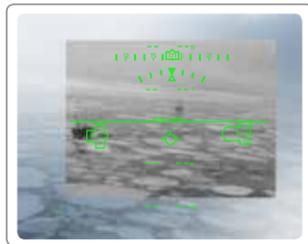
Elbit Systems' experience with critical Design Assurance Level A systems includes cockpit displays, processing units, display generation computers, and advanced mission applications.

Elbit Systems' helicopter avionics product line fuses both synthetic and real-time imagery using a unique design symbology and flight guidance. These features offer helicopter pilots a "real-world" view of the terrain along with all obstacles within their flight path. The company's product line includes:
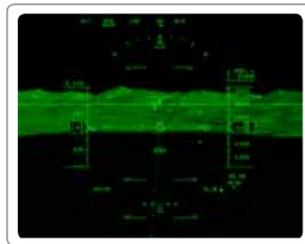
Enhanced Flight Vision System (EFVS) Solution for Helicopters

ClearVision™ is a complete EFVS solution, which covers the full flight envelope, and overcomes extreme weather conditions and low visibility situations – both day and night.

ClearVision™ is designed for certification according to civil standards and is in line with FAA/EASA current and upcoming regulations.

EFVS

SVS

SkyVis

SkyVis NVG

Enhanced Awareness Applications

SkyVis for Use by Day and with NVG
The new SkyVis system combines proven helmet-mounted display (HMD) with commercially certifiable line-of-sight (LOS) technology.

SKYLENS
The innovative wearable head-up display (HUD) packed in a lightweight, easy-to-install device, displays high-resolution information, images and video on a high-transparency visor providing superior see-through transmission.

ClearVision™ Heli – Enhanced Vision Systems
» Multi-spectral lightweight helicopter EVS
» Sophisticated fusion algorithms and a range of bands including visible light and NIR
» 35° x 27° FOV

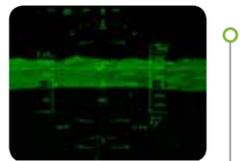### Cockpit Displays
» Smart IMA displays that can host software applications from Elbit Systems' customers or third-party software
» Broad range of sizes, including a 6"x8", 10"x8", and 19"x8.25" unique large area display (LAD)

Head-down and Head-up SVS (Synthetic Vision System)
» Based on a standardized database of runways, obstacles, terrain and flight plan information (managed under DO-200A)
» Displayed as an underlay in the pilot's primary flight display (PFD)
» Complies with RTCA/DO-315B

Enhanced Awareness Applications
» Certified Enhanced Awareness suite
» Software applications hosted on the company's smart displays
» Contains RTCA DO-257A compliant digital maps (DMAP), RTCA DO-309 compliant helicopter terrain awareness and warning system (HTAWS), and an electronic flight bag (EFB)

Computer Unit
» ARINC 600 Standard
» Fully certified building blocks
» Operational applications
» Supports SKYLENS & SkyVis display units