Emergency Services

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 and defense markets, our pilot-centered development team leverages field-proven military 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, 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 and defense 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 two million operational hours logged to date. Our line includes both helmets and visors, each with a head-tracking algorithm.

▶▶▶ THE CLEAREST PATH TO A SAFE ARRIVAL

FROST & SULLIVAN

2014 BEST PRACTICES AWARD

GLOBAL COMMERCIAL AVIONICS
NEW PRODUCT INNOVATION LEADERSHIP AWARD

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Helicopter Clearvision™ — EMS

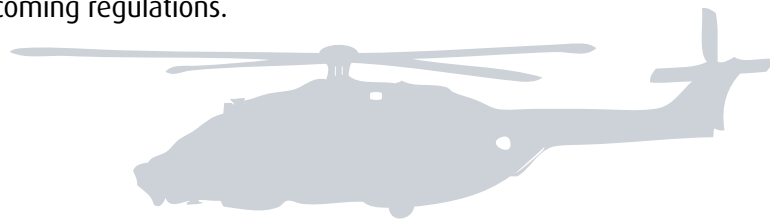## Ensuring the utmost safety for aeromedical sevices

Assistance during the Golden Hour can mean the difference between life and death, and because of this critical and short span of time, aeromedical helicopter pilots cannot take safety risks that could place patients or crew in jeopardy. Advanced onboard avionics enable helicopters to safely and reliably deliver a trauma team to the critically injured, and to swiftly transport people from trauma scenes to appropriate healthcare facilities.

Elbit Systems' Clearvision™ helicopter avionics solutions enable EMS operators to experience higher mission completion rates and greater safety, allowing them to avoid dangerous obstructions, fly in unexpected IMC, and arrive safely whether in low light, poor visibility or on unprepared landing sites.
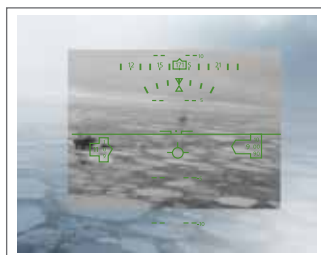
EMS and SAR pilots can safely land on unprepared landing sites by flying "eyes-out," using a synthetic vision system (SVS) and flight symbology overlaid on a day head-up display (HUD) or night vision goggles (NVG). This solution enables better detection of obstacles and enhanced terrain awareness in all weather conditions.

Ensuring the Utmost Safety for Aeromedical Services Enhanced Flight Vision System (EFVS) Solution for Helicopters

· **ClearVision™** is Elbit Systems' complete EFVS solution. The multi-spectral EVS detects lights of helipads and runways, while the high-quality ClearVision™ display fuses conformal flight guidance symbology with synthetic vision presentation and high-resolution video. The result is displayed onto the SkyVis Helmet Mounted display.

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

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.
» Independent conformal symbology displays for each pilot on NVG and daytime HUD
» Presentation of critical flight data
» Mounted on the NVG base
» Designed for Level A assurance

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
» Designed for Level B assurance
» 1280 x 960 high-resolution

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 display units

SkyVis   EFVS   SkyVis NVG   Enhanced Awareness Apps.