

C-130 Digital Head Up Display (DHUD)



The C-130 aircraft provides rapid strategic delivery of troops and cargo to main operating bases as well as tactical airlift and airdrop operations within a theatre of operations. Elbit Systems of America is working with industry leading OEMs to produce Digital Head Up Display technology for transport aircraft that will enhance the ability of the aircraft to fulfill present and future air mobility requirements for the United States of America.

Features

- Large eye motion box and state-of-the-art LCD / LED technology
- High resolution in all operating modes; superior brightness and contrast
- Video superimposed with symbology to generate a conformal image
- Four digital video input channels for imagery display; incorporates growth provisions that will provide the foundation for sensor fusion
- Night Vision compatible lighting with ample clearance for helmet mounted night vision goggles
- Comprised of two line replacement units for ease of maintenance, enhanced reliability, and built-in obsolescence mitigation

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Optional Equipment

With C-130 operators in mind, we have enabled the HUD to work with other Elbit Systems of America solutions such as our enhanced vision system (EVS.) When added, our EVS system enhances the pilot's situational awareness in critical phases of flight during reduced visibility conditions using leading-edge, commercial-off-the-shelf technology to satisfy Air Mobility Command autonomous approach landing capability requirements. With our EVS, fog and snow, typical of a Balkan winter, will never delay military operations as experienced in December 1995.

EVS + HUD = Mission Accomplished

Our EVS was developed to enable commercial, business, and military aircraft to safely land, taxi, and takeoff in fog, rain, snow, and other reduced visibility conditions in accordance with current FAA and EASA EFVS regulations.

Applications

- Enhanced safety
- Operational flexibility
- Inclement weather operations
- Drop-zone acquisition
- Assault-zone recognition
- Tanker identification

Benefits

Operational Flexibility

- Austere airfield operations
- Reduction in landing, taxi, takeoff minimums
- Begin an approach with reduced runway visual range
- Lower landing credit to near 0/0 visibility
- CAT II capability regardless of infrastructure

Reduced Operating Cost

- Fewer flight delays, missed approaches, holdings, and divers
- Eliminates down-line delays and maintenance costs

Enhanced safety

- Safer taxi and takeoff
- Obstacle avoidance (runway incursions)
- Increased situational awareness (reduces CFIT)



Enhanced Vision System