D-HUDS
Digital head-up display system

BOTH FOR LOGISTIC AND TACTICAL MISSIONS

▷ Complete standard flight instrumentation and guidance for all flight phases including specific military functions
▷ High-quality graphics with unlimited symbology display capability
▷ Video image support, including:
  • SVS (Synthetic Vision System)
  • ANS (Airport Navigation System)
▷ The high-definition imagery right in front of your eyes
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FEATURES
The D-HUDS shipset consists of four LRU’s:

**HUD computer (HUDC):**
- Receives and processes aircraft equipment and sensor data
- Generates the display graphics
- Monitors the integrity and performance of the system

**HUD projector unit (HPU):**
- Provides high brightness image

**HUD combiner unit (HCU):**
- Collimation of the projected image overlaying external world
- Three positions: operational, stowed and breakaway

**Personalization Memory Module (PMM):**
- Allows the exchange of any LRU without adjustment

REFERENCES
- D-HUDS basic on A400M (dual installation)
- D-HUDS is suitable on any Military Transport Aircraft (single, dual, twin installation)
- D-HUDS is offerable on Airbus family

UNRIVALLED CAPABILITIES

**Military mission improvement:**
- Adverse weather conditions
- Unprepared terrain take-off and landing
- Low-level flight aids
- Dropping aids
- Hostile environment piloting aids

**Safety improvement:**
- Faster decision during critical flight phases
- Immediate and continuous assessment of the airplane trajectory in poor visibility
- Wide field of view for high crosswind conditions
- Enhanced Flight Vision System capability
- Synthetic Vision display capability

**Cockpit integration:**
- Coherent operations with HDD
- Single or dual mode
- Flexible installation, based on electronic boresighting
- Head clearance > 3.6”, compatible with NVG use

**Reliability:**
- LCD glass in-house technology
- Unrivalled MTBF 9000FH

**Savings:**
- Cumulating advantages in volume, weight and consumption
- Reduced maintenance costs

**Advanced graphic capabilities:**
- Grey level scale
- Reverse video, haloing, surface effects
- Associated flexible graphic software tools

TECHNICAL DATA

**D-HUDS shipset**
- Weight: 50 pounds (23 kg)
- Power Consumption: 160 W
- A 764 compliant
- Environment: DO 160 D
- Software Category: DO 178 B level A
- Contrast: 1.3 (symbology and video)
- Maintenance:
  - No scheduled maintenance
  - BITE – Self Test
  - Modular design for optimal maintainability

**Optical units**
- Field Of View: 35° x 26°
- Resolution: SXGA
- LCD
- Auto/Manual brightness adjustment for symbols and video
- Auto/Manual Declutter

**Electronic units**
- Size: Arinc 600 - 6 MCU
- Power Supply: 115V/400Hz
- I/O:
  - A429 – A664 part7
  - Digital Video XGA
  - RS 422 – RS 232
  - Discretes