

# EVS II

## Enhanced Vision System



### Benefits

- Consists of 3 LRU's
- Improves safety of flight
- Enhances pilot situation awareness
- Terrain avoidance
- Runway incursion detection
- Additional lower landing credit
- ILS and non-precision approaches to 100 ft. HAT

### More Features

- Readily available during all flight phases and taxi
- High resolution with maximum shades of gray for optimum image quality
- Heated EVS Window to operate in icing conditions
- Highest system sensitivity for all weather operations
- Meets FAA and EASA EFVS Regulations

Nothing Is Safer Than Seeing



# EVS II

## Enhanced Vision System

EVS II is the next generation Kollsman-Enhanced Vision System (EVS) allowing flight operations in darkness, smoke, haze, rain, fog, and other low visibility conditions for increased pilot visibility and flight safety.

Purpose: The Kollsman-Enhanced Vision System, EVS II, enhances a pilot's ability to safely fly an aircraft by providing increased flight visibility for improved situation awareness. EVS II allows a pilot to identify runway lights and ground features at night and under low visibility conditions by adjusting to current conditions in real time to maintain optimal detection capability. The enhanced flight visibility is provided in accordance with FAA and EASA EFVS regulations. EVS II operation is based on advanced infrared (IR) sensor functionality, and works in conjunction with the aircraft Head Up Display (HUD) and head-down display. EVS II is installable in both fixed wing and rotary wing aircraft.



## Technical Specifications

- 3 LRU's
  - Forward Looking Infrared (IR) Sensor
  - Processor
  - IR Window
- Parameters
  - Field Of View: 30° Horizontal by 22.5° Vertical (\*Nominal)
  - Power: +28 VDC Aircraft Power, 100W avg., 360W peak
  - Video Outputs: SMPTE-170M Analog Video, SMPTE 259 digital video
  - Control Interfaces: RS232, RS422, ARINC 429, Discretes
  - System Weight: 22 lbs. Maximum (FLIR: 12lbs., Processor: 8lbs., IR Window: 2lbs.)
  - FPA Size: 320 H x 240 V pixels InSb FPA
  - Sensitivity (NETD): Less than 5 mK
  - IR Spectrum: 1 to 5 Micron
  - Temperature Range: -55C to +70C
  - Altitude Range: Up to +55,000 Feet
  - Design Standards: RTCA DO-178B, DO-254, And DO-160 Compliant



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