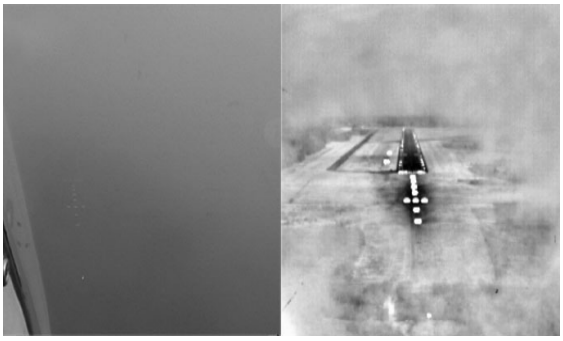
Kollsman
COMMERCIAL AVIATION SYSTEMS

EVS II

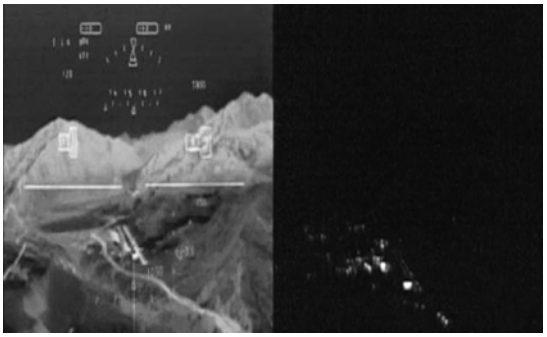
All Weather Window®
Enhanced Vision System

EVS II is Kollsman's next generation 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 Federal Aviation Regulation (FAR) 91.175. 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 helicopter aircraft.



Window View EVS View



EVS View Window View

Consists of 3 LRU's :

- Cooled IR sensor (FLIR assembly)
- IR window assembly
- Processor assembly

Benefits:

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

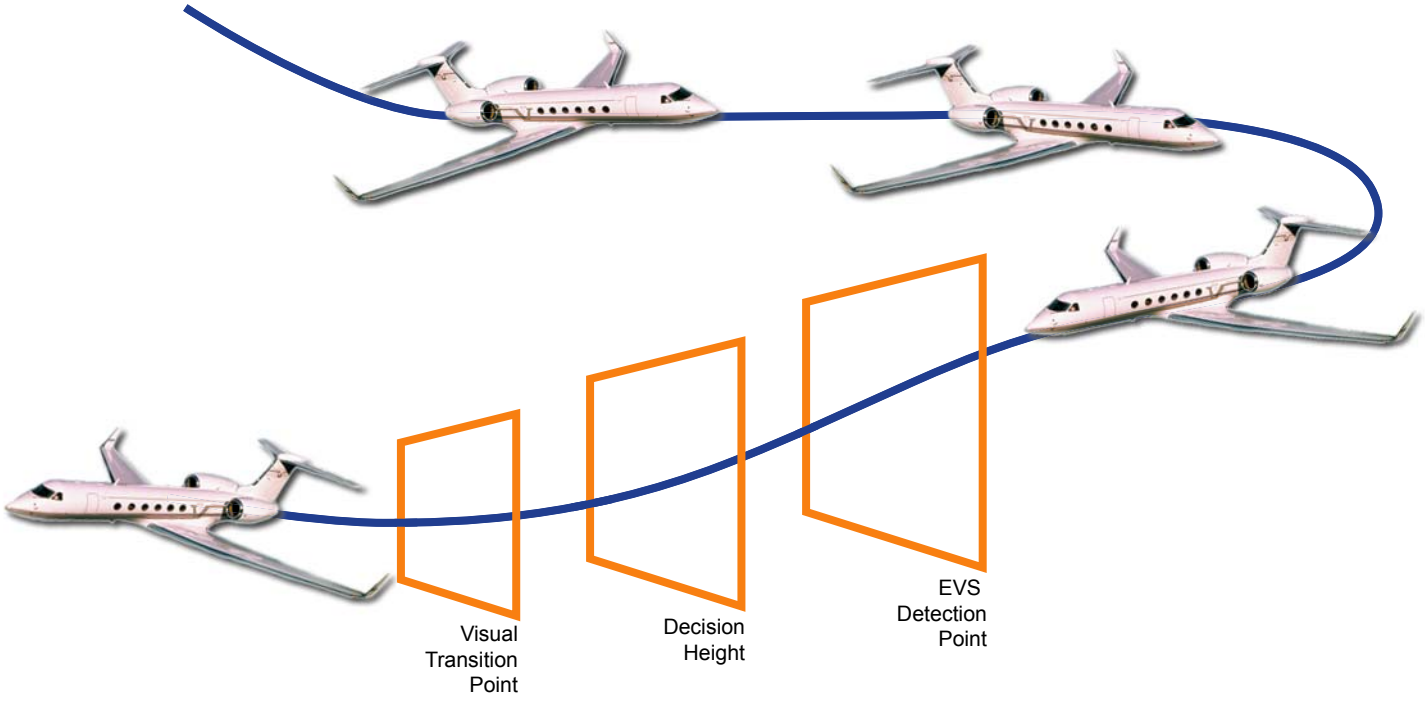
Features:

- 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 EFVS FAR 91-175 Regulations

EVS II All Weather Window®

PARAMETER	UNITS
Field Of View	30 Degrees Horizontal by 22.5 Degrees Vertical (*Nominal)
Power	+28 VDC Aircraft Power, 120W avg., 300W peak
LRU's	- Forward Looking Infrared (IR) Sensor - Processor - IR Window
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

* Tailored to match HUD FOV



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