EVS-1000

Enhanced Vision System

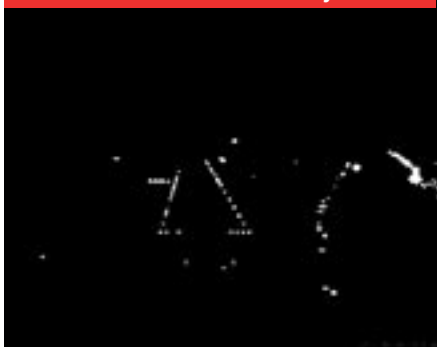
Next Generation Technology

- Maximum Flexibility
- Maximum Reliability
- Maximum Performance

The EVS-1000 sensor uses state-of-the-art, long-wave infrared (LWIR) technology, which penetrates fog, haze and smoke. It also provides enhanced visibility at night and in precipitation. The EVS-1000 system produces TV-like images of runways, taxiways, traffic, obstacles and terrain to give the crew increased situational awareness in most reduced visibility conditions. The EVS-1000 automatically adjusts brightness and contrast and uses advanced optimization technology to further enhance the images under all viewing conditions.

The EVS-1000 utilizes "uncooled" detector technology, making it extremely compact, lightweight and easy to install. All-solid-state components lead to maintenance-free operation and high reliability. The unit is fully EMI/RFI protected and power conditioned. The compact size of the EVS-1000 system offers a flexible range of options for installation in the nose, radome, or vertical stabilizer of the aircraft. The image produced by the EVS-1000 can be displayed on any video-capable head-down display.

Without Enhanced Vision System



With Enhanced Vision System

EVS-1000 Characteristics

Sensor Technology	Uncooled Solid State — Does Not Require Mechanical Cryogenic Cooler
Size	
Sensor Head	2.8" (71mm) Diam X 6.8" (172.7mm) L
Power Module	3.75" (95.3mm) W X 5.0" (127mm) H X 2.5" (57.2mm) D
Weight	
Sensor Head*	2.5 Pounds (1.13kg) *Does not include cable and brackets
Power Module*	2.5 Pounds (1.13kg) *Does not include cable and brackets
Power	
Electronics	10 Watts Typical, 25 Watts Peak at 28 VDC
Environmental Conditioning	50 Watts Average, 125 Watts Maximum (with heater)
Resolution	320 X 240 Pixels, 2 Dimensional Staring Array
Field of View (FOV)	
Head-Down Display (HDD)	40° X 30° Typical, Special FOVs Upon Request
Reliability	>15,000 Hours
Operating Temperature	-55° to +70° C
Installation Options	Vertical Stabilizer Upper Radome/Nose Lower Radome/Nose
Environmental Qualifications	Unit Tested To Requirements of DO-160D

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