

TVS - Thermal Vision Sensor for Enhanced Vision System (EVS) safe taxing, takeoff & landing of aircrafts



Observation and Surveillance



The TVS is a thermal camera, sensitive to the Long Wave Infra-Red (LWIR) spectrum and based on an uncooled micro-bolometer, 17μ pixel pitch, VGA (640X480) high sensitive (HS) detector.

TVS provides the flight crew with an enhanced image of the external scene allowing real time situational awareness and assistance during taxing, takeoff and landing in day, night and low visibility conditions.

Benefits

- **Wide Operating temperature range**
- **High Sensitivity**
- **Wide Field of View**
- **A-Thermal and off-Axis diffraction limited MTF Optics**
- **Low Power consumption**
- **Small Size**
- **Light Weight**
- **Aviation Standard DO254-level C**

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SENSING YOUR TARGET
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for Enhanced Vision System (EVS)

safe taxing, takeoff & landing of aircrafts

Specifications

Detector (HS)	LWIR (8 μ =12.5 μ) micro-bolometer (uncooled) High Resolution VGA (640X480), 17 μ pixel pitch, HS (High sensitive) Detector
Technology	VOx micro-bolometer (HS)
Focal length (EFL)	16.75 mm
Field of View (FOV)	H=35.5° X V=26.6°
NETD	32 mK (@ F#/1, 60hz, 25°C)
F/#	0.7 or 1.2 selectable
Time to image	< 5 seconds
Video Output	Camera link (processed and raw image)
Dimensions	L=75mm, H= 57mm, W= 75mm
Weight	< 500 gr.
Operating temperature range	(-40°C ÷ +71°C)
Focusing Range	A-Thermal design for Operation temperatures from 30m to infinity (100 m nominal)
Power Consumption	4.5W (Typical)
Line of Sight Accuracy	≤ 0.5 mrad.



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