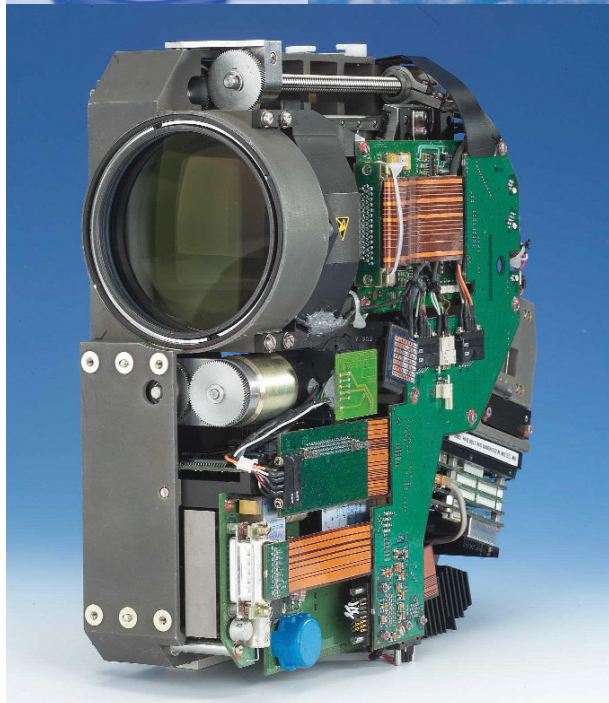


Visual Sensor VOS 40/500

Digital EO Reconnaissance Camera



The visual sensor VOS 40/500 is a high resolution digital camera system with a large 4 mega pixel focal plane array and powerful zoom lens. It is specially designed for the integration in stabilized platforms of tactical reconnaissance systems such as the RecceLite Pod.

- Represents the latest state of the art in camera technology for real time image capture
- Unique design to fit in front section of stabilized platforms providing a wide field of applications
- Four million pixel detector with high frame rate
- High performance zoom lens with mass compensation for platform balancing
- Selectable field-of-views for recce missions and cockpit display
- High reliability, no mechanical shutter
- Automatic camera functions
- Status: in production, flight tested



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VOS 40/500 Product Description

The VOS 40/500 digital EO camera has been specifically designed for the requirements of the RecceLite Tactical Reconnaissance Pod. The camera design represents the latest state-of-the-art technology. Its unique design fits into the stabilised front section of the RecceLite platform, providing an extremely large field-of-regard.

The sensor can also be integrated into various UAV's of similar size. An infrared thermal sensor is combined with the visual sensor into one platform with harmonised Line-of-Sight.

The sensor suite generates multi-spectral images in two channels, providing enhanced target detection and reconnaissance intelligence.

Technical Specifications

FPA CCD	Detector 2,048 x 2,048 pixel
Spectral range	0.5 - 0.8 μm
Pixel size	7.4 x 7.4 μm^2
Frame rate	3 frames/s max.
Focal length	42 to 500 mm
Rel. Aperture	1:4.2, (1:6.0 SNFOV)
Zoom with 4 selectable FOVs:	
SNFOV	1.7° x 1.7°
NFOV	3.2° x 3.2°
MFOV	7.1° x 7.1°
WFOV	20.5° x 20.5°
Cockpit display	window / binning 512 x 512 pixel
Enhanced NFOV (window)	0.8° x 0.8°
Output	12/8 Bit digital video
Serial control interface	RS 422
Weight	approx. 8 kg
Dimensions	290 x 270 x 110 mm ³
Power	28 VDC, 45 W

The detector selection for the tactical reconnaissance camera was based on the following considerations:

- large pixel count to achieve good resolution
- high frame rate
- no mechanical shutter to increase reliability
- good angular resolution
- good ground coverage

