

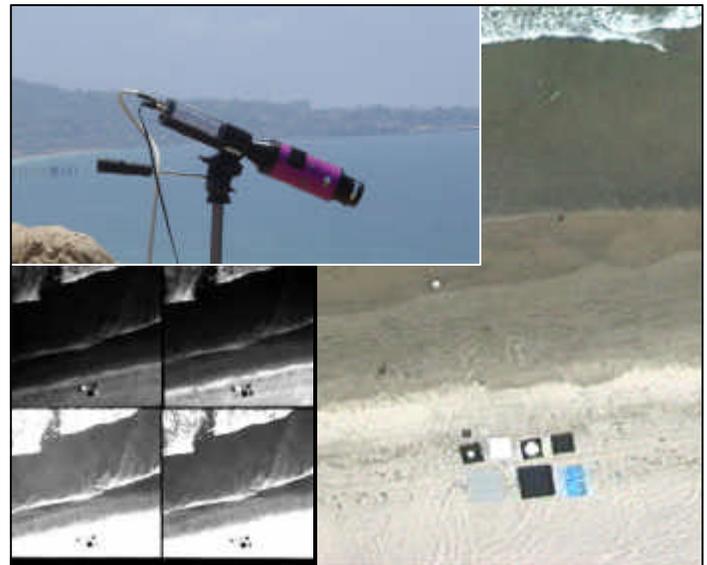
# MANTIS-2 (Mission Adaptable Narrowband Tunable Imaging Sensor)



Date Revised: 21 JAN 03

## DESCRIPTION

MANTIS-2 is a selectable four-band common aperture multispectral system that allows for the acquisition of temporally simultaneous multi-spectral data without the added complexity of a filter wheel. MANTIS-2 is modular in that it utilizes foreoptics developed by Optical Insights, a digital/analog camera specified for the desired application, and a custom data acquisition system designed to meet customer needs. PAR Government Systems provides an integrated sensor as well as software for data acquisition and signal processing to develop RSTA and ISR data products.



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## Hardware

Power: 100 watts	Operating Speed: 0 to 150 kts
Weight: 4.4 kg	Operating Temp.: 10°C to 40°C
Dimensions: 300mm x 200mm x 200mm (adjustable)	Storage Temp.: -20°C to 60°C
Internal Volume: 0.06 m <sup>3</sup>	TCDL Compatibility: Yes
In-Flight Manipulation of the Sensor: Yes	Maintainability: 2-level BIT to LRM level
Operating Altitude: 0 ft to 10,000 ft AGL	

## Performance

Swath Width: 20°, 1000 ft @ 3000 ft AGL
Sensor Type: Visible to NIR Multispectral
On Board Storage Capacity for Continuous Collection for 3 hours