

NEPTUNE

High Resolution Remote Sensing Camera



The high resolution NEPTUNE remote-sensing camera provides real-time, detailed panchromatic images.

NEPTUNE, integrated in the EROS B satellite that was launched in April 2006 and is still fully operational, has proved its high reliability. The EROS B satellite is the second in a family of Earth Global Monitoring systems, operated by ImageSat International N.V.

Main Advantages & Features

- Orbits at an altitude of ~500 km providing 70 cm resolution panchromatic image
- Selectable exposure by ground-controlled TDI levels (1, 8, 32, 64, 96) that enables better adaptation for special imaging conditions



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Applications

The NEPTUNE camera provides high spatial resolution earth imaging and mapping for a wide range of security/military and civilian applications

- **Military surveillance and reconnaissance**

- Detailed high value target investigation
- High definition of small and discrete vehicles, objects and structures
- High quality I&W
- High quality situational awareness
- Detailed operational planning
- Enhanced BDA

- **Civilian applications:**

- Homeland security
- Emergency planning and operations
- Environmental monitoring
- Energy and infrastructure
- Natural and man-made resources

Technical Data

• GSD (m) @ 500 km	0.67	0.79
• Swath (km) @ 500 km	6.7	7.9
• Aperture		0.5
• Focal length (m)		8.25
• F/#		16.5
• Spectral range (µm)		0.5-0.9 (note 1)
• Detector pitch (µm) - 2 options	11	13 (note 2)
• Number of pixels	10,000	10,000
• Max TDI		96
• Duty cycle (%)		20
• Peak (imaging) power (W)		50
• Mass (kg)		45



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