

ELOP JUPITER

Very High Resolution Remote Sensing Camera



The JUPITER camera is a top-end performance earth observation system for government and commercial applications and missions. JUPITER, our next generation camera, will be integrated in the OPTSAT 3000 satellite. JUPITER contains panchromatic and optional multi-spectral (MS) imaging capabilities sharing a common optical assembly and is capable of simultaneous operation and the creation of pan, MS and pan-sharpened images.

Main Advantages & Features

JUPITER will provide more advanced capabilities than its predecessors:

- Better resolution
- Higher sensitivity
- PAN & MS capability
- Wide field of view
- Lightweight and compact

ELOP JUPITER

Very High Resolution Remote Sensing Camera

Applications

The JUPITER camera provides very high spatial resolution, detailed earth imaging and accurate mapping for a wide range of security/military and civilian applications:

- **Advanced military surveillance and reconnaissance capabilities**
 - Very detailed high value target investigation
 - Higher definition of small and discrete vehicles, objects and structures
 - Higher quality I&W
 - Higher quality situational awareness
 - More detailed operational planning
 - More enhanced BDA
- **Civilian applications:**
 - Homeland security
 - Emergency planning and operations
 - Environmental monitoring
 - Energy and infrastructure
- **Natural and man-made resources**

Technical Data

• GSD (m) @ 600 km	0.5
• Swath (km) @ 600 km	15
• Aperture (m)	0.7
• Focal length (m)	15.6
• F/#	22.3
• PAN spectral range (µm)	0.45-0.9
• MS spectral bands (µm)	0.45-0.52
	0.52-0.60
	0.63-0.69
	0.76-0.90
• PAN detector pitch (µm) - note 1	13
• Number of pixels	30,000
• Max TDI	96
• Duty cycle (%)	30
• Peak (imaging) power (W)	200
• Mass (kg)	120

Note:

1. Back-side technology



Elbit Systems Ltd.

Advanced Technology Center, P.O.B 539, Haifa 31053, Israel

E-mail: istar@elbitsystems.com www.elbitsystems.com

Follow us on   