## **URANUS - MSC**

Multi-Spectral Space Camera - Payload System

The URANUS Multi-Spectral Space Camera (MSC), a high resolution panchromatic and multi-spectral payload system, is a complete endto-end spaceborne remote-sensing payload originally designed for the KOMPSAT II satellite developed by the Korea Aerospace Research Institute (KARI) for multi-purpose use. KOMPSAT II was launched in July 2006.

#### **Main Advantages and Features**

- High resolution 1.0 m panchromatic at 685 km altitude
- High resolution 4.0 m multi-spectral at 685 km altitude

#### The URANUS - MSC payload system includes

- Embedded camera
- Payload Management Unit
- Data compression storage and encryption
- Data link, including data formatting, transmitter and antennas





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### Applications

The URANUS - MSC payload provides high spatial resolution earth imaging and mapping for a wide range of applications:

- Thematic surveys
- Environmental monitoring
- Air and water pollution
- Homeland security, including
- Border control
- Drug trafficking

#### Energy and infrastructure

- Oil and gas
- Utilities
- Mining
- Roads

## Technical Data

• GSD (m) @ 690 km	PAN -1
	MS - 4
• Swath (km) @ 690 km	15
• Aperture (m)	0.6
• Focal length (m)	9
• F#	15
• PAN spectral range (µm)	0.50-0.90
• MS spectral bands (µm)	0.45-0.52
	0.52-0.60
	0.63-0.69
	0.76-0.90
<ul> <li>PAN detector pitch (µm)</li> </ul>	13
<ul> <li>Number of pixel</li> </ul>	15,000
• Max TDI	32
• Duty cycle (%)	10
• Peak (imaging) power (W)	90
Mass (kg)y	75



Elbit Systems Ltd. E-mail: istar@elbitsystems.com www.elbitsystems.com

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