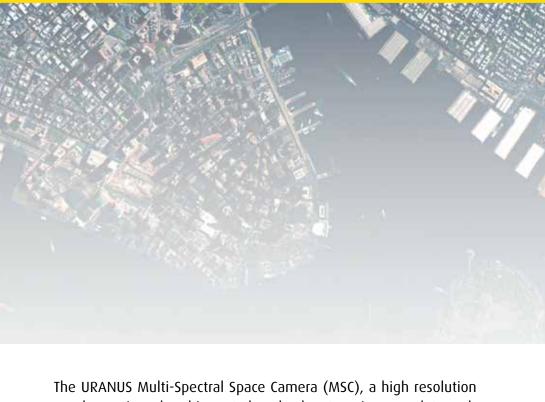
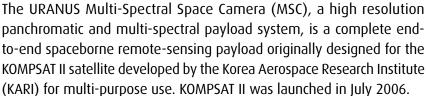
URANUS - MSC

Multi-Spectral Space Camera - Payload System





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



URANUS - MSC

Multi-Spectral Space Camera - Payload System

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

- Emergency planning and operations:
- Flood management
- Disaster relief
- Search and rescue operations
- Natural and man-made resources:
- Agriculture and forestry
- Vegetation
- Agriculture
- Forestry
- Bodies of water

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
 PAN detector pitch (μm) 	13
 Number of pixel 	15,000
• Max TDI	32
• Duty cycle (%)	10
 Peak (imaging) power (W) 	90



Mass (kg)y

Elbit Systems Ltd.

Advanced Technology Center, P.O.B 539, Haifa 3100401, Israel E-mail: istar@elbitsystems.com www.elbitsystems.com





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