

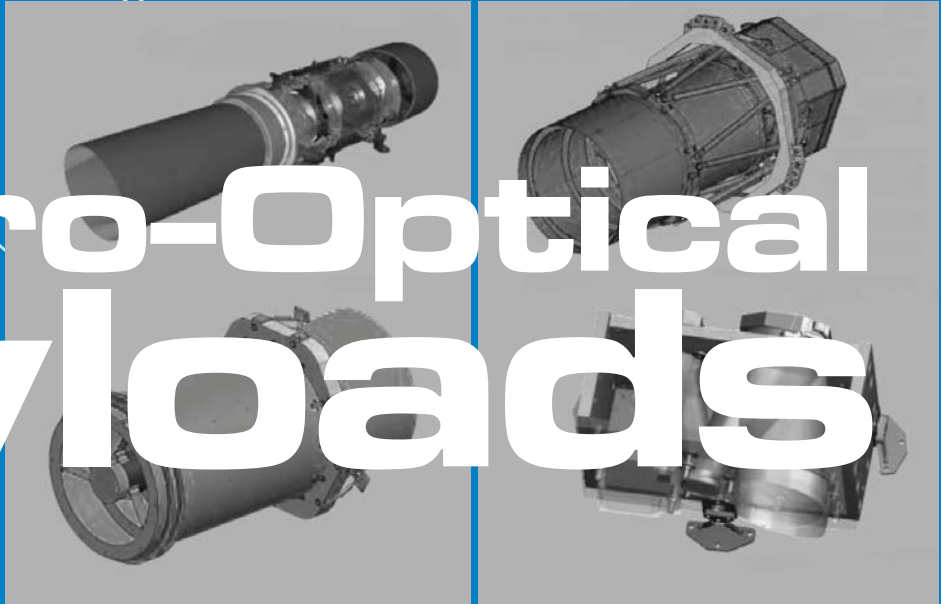
Spacecraft Electro-Optical Payloads

Satrec Initiative (SI) offers various affordable small satellite payloads for various earth imaging applications. SI offers a range of electro-optical payloads that have capabilities ranging from 10 meter to 1 meter Ground Sampling Distance (GSD) for panchromatic images and 15 meter to 4 meter GSD for multi-spectral bands. It also offers a 100-channel hyper-spectral imaging system.

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Electro-Optical Payloads



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Satrec Initiative (SI) offers multiple types of electro-optical and GEO-SatCom payloads. Its EOS-A payload is an ideal imaging system for satellites to provide 10 meter resolution. Its EOS-C optical payload offers 2.5 meter Ground Sampling Distance (GSD) for a panchromatic band and 5 meter GSD for four multi-spectral bands. Its EOS-D optical payload offers 1 meter GSD for a panchromatic band and 4 meter GSD for four multi-spectral bands. SI's EOS-H payload is a 100-channel hyper-spectral imaging system based on a three-mirror-astigmatic (TMA) telescope for advanced applications such as land management, resource development/conservation, forestry, fishery and surveillance.

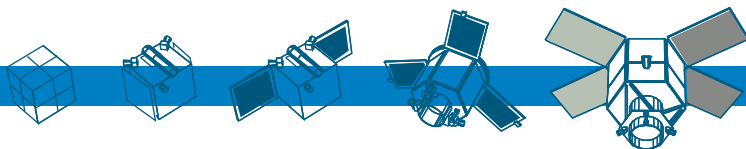
	EOS-A Option 1	EOS-A Option 2	EOS-C	EOS-D	EOS-H
Description	Designed for ~100 kg class satellites		Designed for ~200 kg class satellites	Designed for ~300 kg class satellites	Hyper-spectral TMA System
Mass/Size	Optics < 5.0 kg 200x200x550 mm Electronics < 8.0 kg 320x210x150 mm	Optics < 3.6 kg 170x170x420 mm Electronics < 2.9 kg 200x265x85 mm	Optics < 36.5 kg Φ420x610 mm Electronics < 8.5 kg 375x215x121 mm	Optics < 30 kg Φ650x890 mm Electronics < 10.0 kg 375x215x121 mm	Telescope < 32 kg
Spectral Bands	3 MS (RG + NIR)	PAN + 3 MS (PAN+3G, NIR)	1 PAN + 4 MS (PAN + RGB, NIR)	PAN + 4 MS (PAN + RGB, NIR)	~100 spectral bands (VIS, NIR)
Resolution	MS: 10 m (@ 685 km)	PAN: 7.5 m MS: 15 m (@700 km)	PAN: 2.5 m MS: 5.0 m (@700 km)	PAN: 1.0 m MS: 4.0 m (@ 600km)	25 m
Swath Width	> 50 km (@ 685 km)	> 30 km (@ 700 km)	> 20 km (@ 700 km)	> 12 km (@ 600 km)	> 60 km
Power Consumption	< 30 W	< 25 W	< 60 W	< 70 W	< 30 W



Based in Daejeon, Republic of Korea (South Korea), Satrec Initiative (SI) is the one of the world's leading companies in high performance Earth observation small satellite solutions. SI was founded in 1999 by engineers who had developed the first South Korean satellite and a series of advanced small satellites at the Korean Advanced Institute of Science and Technology (KAIST). SI has a successful track record serving more than 20 global customers in the Middle East, Asia and Europe. The company's portfolio of high quality satellite solutions includes integrated turnkey satellite systems, satellite components, platforms, electro-optical instruments, ground stations, satellite operations, image processing and image applications, and spin-off technologies. The company also offers training and consultancy services. SI is publicly listed on the South Korean KOSDAQ exchange.



Based in Washington, D.C., SpaceWorks Commercial, a division of SpaceWorks Engineering, Inc. (SEI), advances innovative ideas, solutions, and partnerships aimed at maturing near and far term commercial and international space ventures. The firm works with entrepreneurial ventures to enhance existing or to facilitate new business opportunities as well providing consulting and advocacy services to help bring space projects to maturation. The division's capabilities include: strategic and quantitative-based insight, technical aerospace systems analysis and design services (utilizing its sister division, SpaceWorks Engineering), financial engineering, and space media. SEI is privately held. SpaceWorks Commercial is an official representative of Satrec Initiative's product lines in the United States.



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