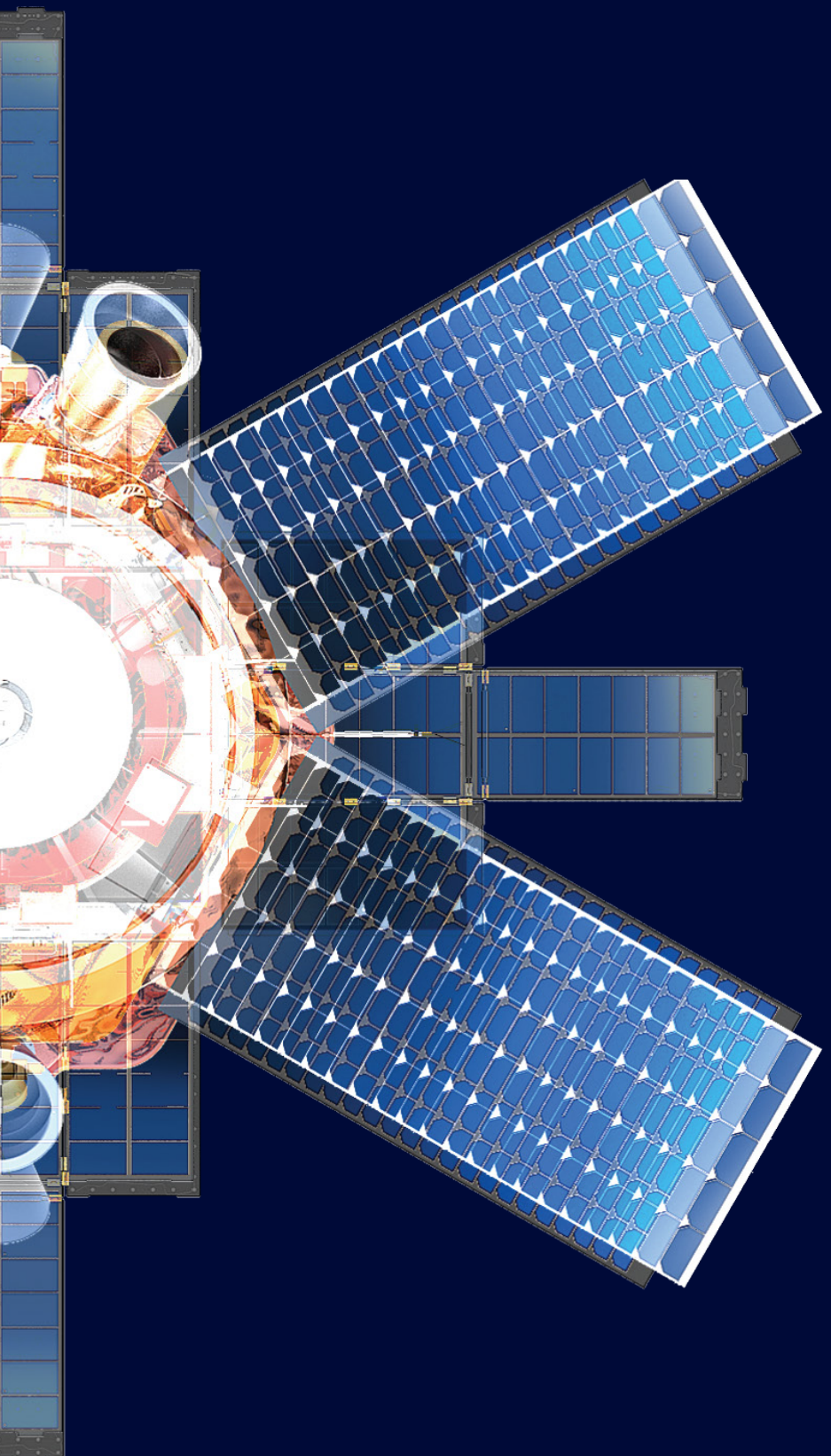


SATPREC INITIATIVE



Sensing to Intelligence

World-Leading Solution Provider for Earth Observation Missions

Satrec Initiative was founded in 1999 by the engineers who developed the first Korean satellite. Over the past 25 years, we have dedicated ourselves to developing high-performance small and medium satellite systems for Earth observation missions.

Satrec Initiative provides global GEOINT solutions from Earth observation satellites, ground systems, imagery services, and AI-based geospatial analytics.



Satellite Systems

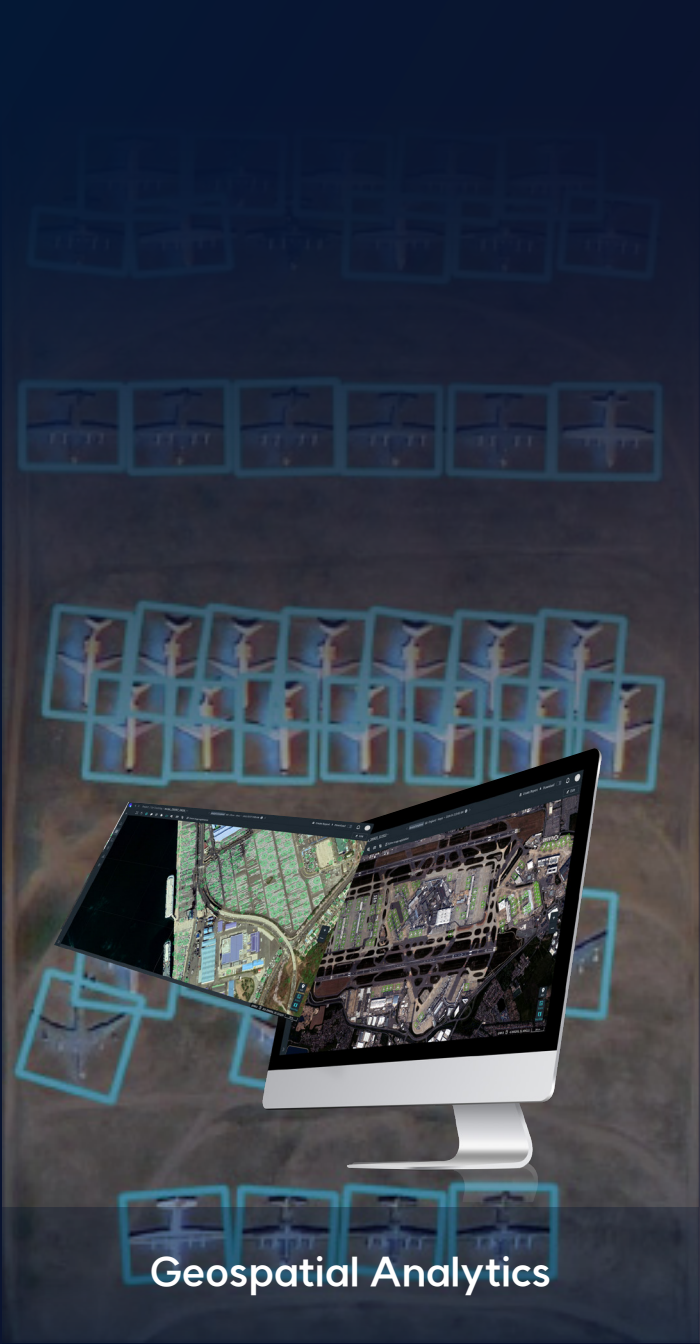


Ground Systems



Image Credits: KARI, SIS

Imaging Services




Geospatial Analytics

SENSING TO — INTELLIGENCE

SATREC INITIATIVE IN NUMBERS


SPACE
PROJECTS

30+




SATELLITE
SYSTEMS

8



SATELLITES
UNDER-DEVELOPMENT


18



ELECTRO-
OPTICAL


6

PAYLOADS



VERY VERY HIGH
RESOLUTION


0.3m



LONG-TERM
PARTNERSHIP

20+


YEARS



IMAGING
SERVICES


8

SATELLITES



IMAGERY
RESELLERS


160+



GEOINT
ANALYSIS

50+


AI PACKS





QUALITY
MANAGEMENT

ISO 9001

AS 9100


EARTH OBSERVATION
SATELLITE SYSTEMS


SATELLITE
IMAGING SERVICES


AI-BASED
GEOSPATIAL ANALYTICS

As of 2024

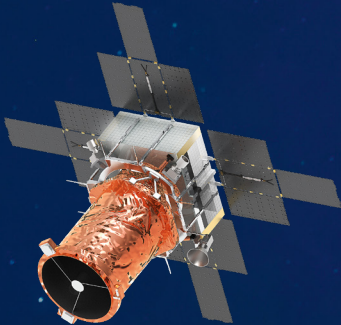
SATELLITE SYSTEM PORTFOLIO

VVHR



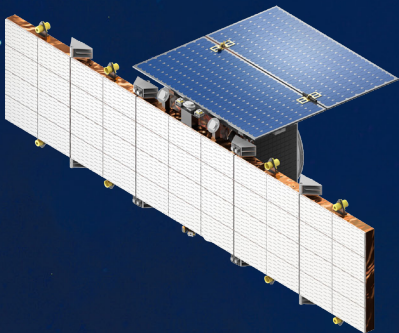
SpaceEye-T @ 600 km	
Bands	PAN + 4 MS
GSD	PAN 0.3 m, MS 1.2m
Swath Width	14 km
D/L Speed	2.0 Gbps

VHR



SpaceEye-M @ 500 km	
Bands	PAN + 4 MS
GSD	PAN 0.8 m, MS 3.2 m
Swath Width	9.6 km
D/L Speed	600 Mbps

SAR



SpaceEye-R @ 500 km	
Bands	X-band
GSD	0.5 m (spot)
Swath Width	> 100 km (Scan)

Space Heritage

30+ Years of Passion for Space

1992 - 2009



1992
KITSAT-1



1993
KITSAT-2



1999
KITSAT-3



1999
KOMPSAT-1



2006
KOMPSAT-2



2009
RazakSAT



2009
DubaiSat-1

2010 - 2019



2010
COMS-1



2011
RASAT



2011
X-SAT



2012
KOMPSAT-3



2013
KOMPSAT-5



2013
DubaiSat-2



2014
Deimos-2



2015
KOMPSAT-3A



2015
TeLEOS-1



2018
KhalifaSat



2018
GEO-KOMPSAT 2A

2020 - 2024



2020
GEO-KOMPSAT 2B



2021
CAS500-1



2022
SpaceEye-X



2022
NeuSAR



2023
425
EO/IR Satellite



2024
425
SAR Satellite



2024
SpaceEye-M



2024
EO Satellite

2025 - 2030 Under Development



2025
SAR Satellite



2025
SpaceEye-T



TBD
KOMPSAT-6



TBD
KOMPSAT-7



2025
CAS500-2



2025
CAS500-4



2026
SpaceEye-M
Constellation



2027
SpaceEye-M
Constellation



2027
Experimental Comm.
Satellite



2027
Early Warning
Satellite





2030
Microsat
Constellation

Customers/Partners





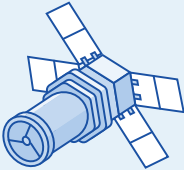






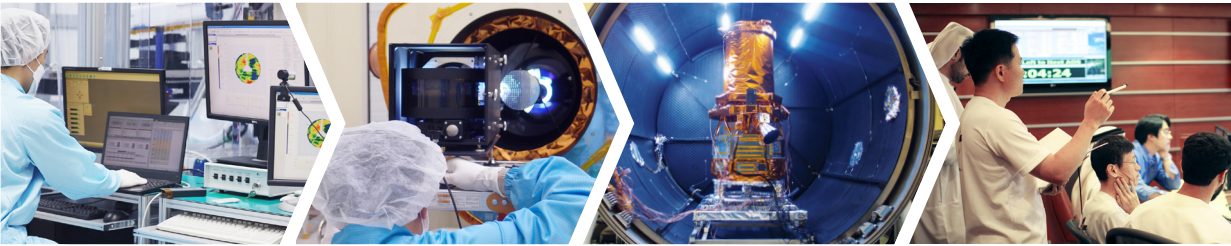
Satellite Systems



High-Performance Small/Medium Satellites

Satellite Platform	EO Payload	Ground System
 <p>High-speed maneuvering, rapid data transmission, and stable power supply to complete mission of satellite</p>	 <p>Provides high-quality images with large diameter optics and low-noise detectors</p>	 <p>Maximizes satellite operational efficiency and image quality through optimized systems</p>

Satellite Systems Development



01 Design & Analysis 02 Manufacturing & Assembly 03 Space Environment Test 04 Launch & Early Operation

Commercial Ground Systems



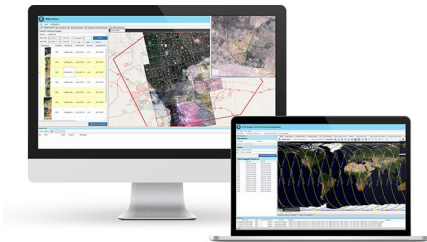
Mission Control System

- Satellite Control
- Flight Dynamics
- Mission Planning
- Data Management & Archiving
- Satellite Simulator



Image Receiving & Processing System

- High-Speed Image Data Acquisition
- Radiometric/Geometric Correction
- Image Collection Planning
- Catalogue Search & Browsing
- Post-launch CAL/VAL



Defense Ground Systems



Mobile Ground Receiving & Processing System

- Mobile ground system for EO/IR satellites
- Mobile ground receiving system for SAR satellites
- Movable antenna, trailer, shelter, and support equipment
- Image receiving, processing, and analysis



SMUDI Secure Satellite Imaging Platform

- High-speed satellite/aerial image display
- 2D/3D terrain and image display
- 2D/3D simulation
- Image analysis
- 2D/3D engine and Server equipment



Space Components

Satrec Initiative develops and provides different types of in-house space components such as high-accuracy attitude control sensors, compact electrical components, and high-efficiency electric propulsion components.

Through our in-house design and manufacturing capabilities for space components, we provide cost-effective solutions optimized for system performances.

Communication



Steerable
X-band Antenna

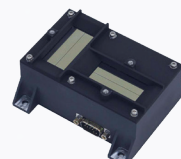


X-band Transmitter

Sensors

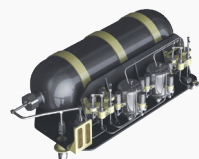


Star Tracker



Sun Sensor

Propulsion



Xenon Feeding Unit

Storage



Solid State Recorder

Electro-Optical Payload



Electro-Optical Payload

Power Subsystem



Power Processing Unit



Primary Power
Management Unit

Satellite Technology Training

1 Training Courses for Satellite System

SI provides tailored training courses that cover a wide spectrum of satellite system development from mission analysis to ground station operation and post-launch calibration/validation.

2 On-the-Job Training

Our experienced engineers provide the on-the-job training (OJT) to design, manufacture, test, and operate satellite systems.

3 Launch & Early Operation (LEOP) and In-Orbit Commissioning

We provide support during launch campaign, early operation, and in-orbit test, which is one of the most critical phases in satellite system development.



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