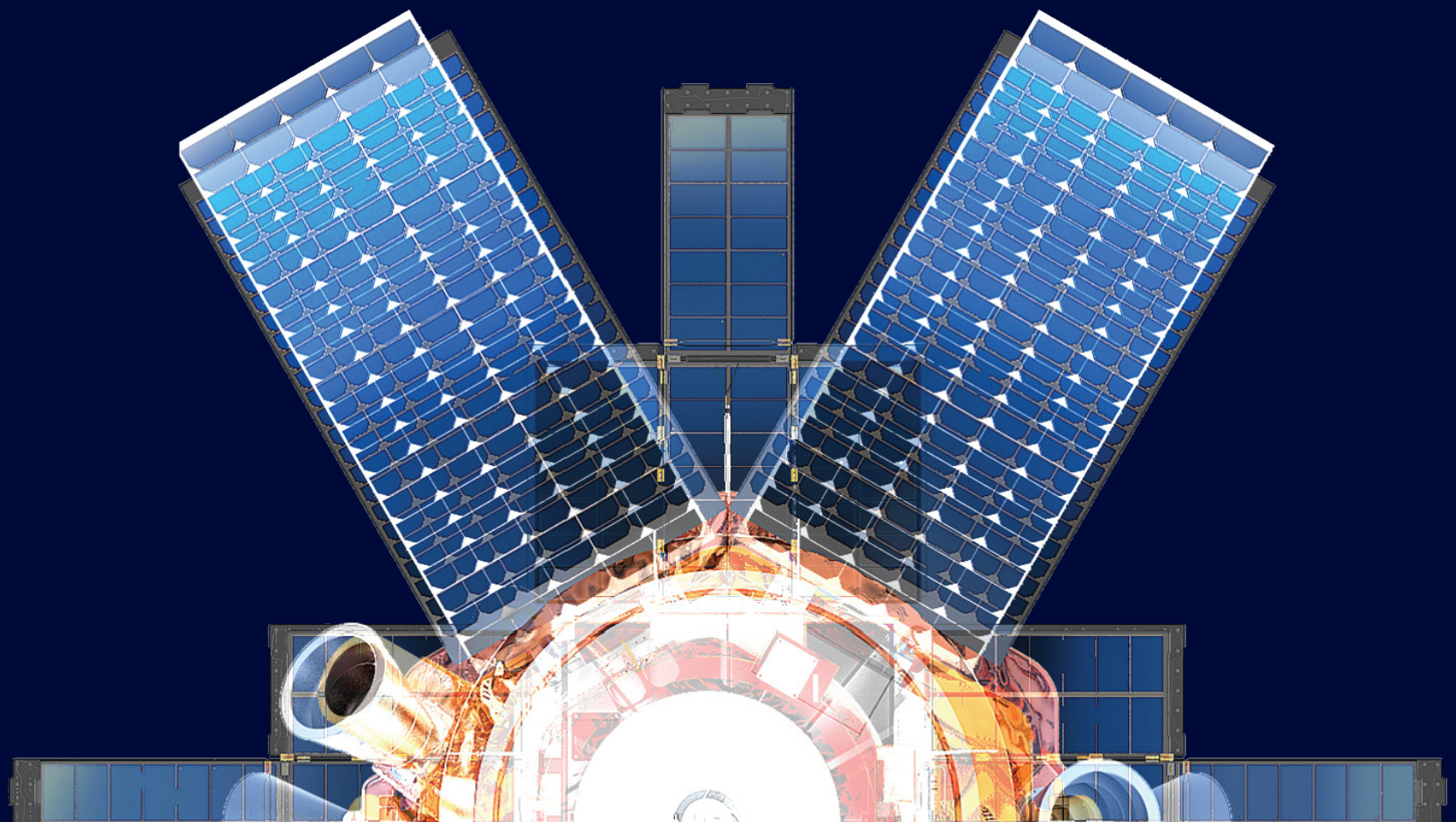
SATREC INITIATIVE



Sensing to Intelligence

World-Leading Solutioin 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, SIIS

Imaging Services

Geospatial Analytics

SENSING TO —— INTELLIGENCE

SATREC INITIATIVE
IN NUMBERS

SPACE PROJECTS
40+

SATELLITE SYSTEMS
8

SATELLITES UNDER-DEVELOPMENT
20

ELECTRO-OPTICAL
6 PAYLOADS

VERY VERY HIGH RESOLUTION
0.3 m

LONG-TERM PARTNERSHIP
20+ YEARS

IMAGING SERVICES
8 SATELLITES

IMAGERY RESELLERS
160+

GEOINT ANALYSIS
50+ AI PACKS

QUALITY MANAGEMENT
ISO 9001
AS 9100

SI
EARTH OBSERVATION SATELLITE SYSTEMS

SIIS
SATELLITE IMAGING SERVICES

SIA
AI-BASED GEOSPATIAL ANALYTICS

As of 2024

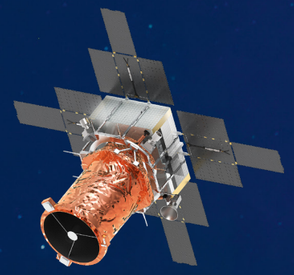
SATELLITE SYSTEM
PORTFOLIO

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

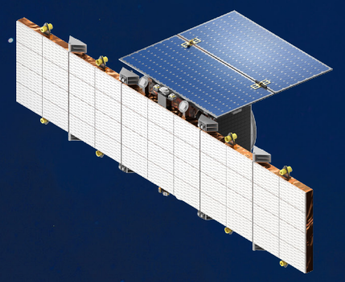
VHR



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

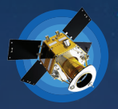
2011
RASAT

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

Agency for Defense Development

KARI Korea Aerospace Research Institute

KIOST Korea Institute of Ocean Science & Technology

ETRI Electronics and Telecommunications Research Institute

SaTReC 인공위성연구소 Satellite Technology Research Center

Korea Meteorological Administration

Korea Hydrographic and Oceanographic Agency

National Institute of Environmental Research

National Geographic Information Institute Ministry of Land, Infrastructure and Transport

National Institute of Agricultural Sciences

National Institute of Forest Science

National Institute of Meteorological Sciences

KOREAN AIR

LIG Nex1

Hanwha Systems

KAI Korea Aerospace Industries, Ltd.

مركز محمد بن راشد للفضاء Mohammed Bin Rashid Space Centre

ST Electronics Satellite Systems

DSO National Laboratories

elecnor deimos

AIRBUS

ThalesAlenia Space

Turkish Aerospace

TÜBİTAK UZAY

Kementerian Sains, Teknologi dan Inovasi

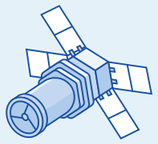
Nanyang Technological University Singapore

GISTDA

Satellite Systems

High-Performance Small/Medium Satellites

Satellite Platform



High-speed maneuvering, rapid data transmission, and stable power supply to complete mission of satellite

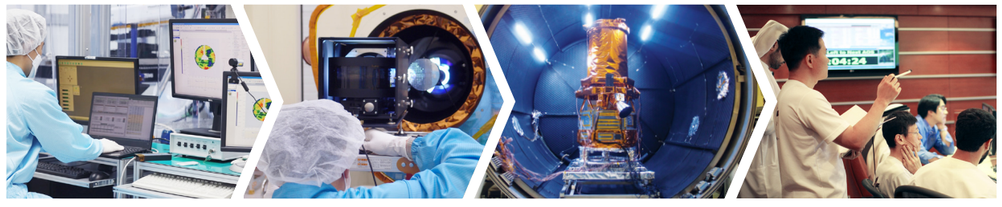
EO Payload

Provides high-quality images with large diameter optics and low-noise detectors

Ground System

Maximizes satellite operational efficiency and image quality through optimized systems

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

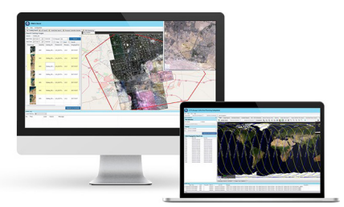


Image Receiving & Processing System

- 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.

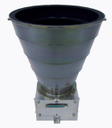
Through our in-house design and manufacturing capabilities for space components, we provide cost-effective solutions optimized for system performances.

Communication

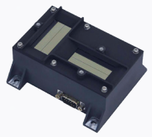
Steerable
X-band Antenna

X-band Transmitter

Sensors

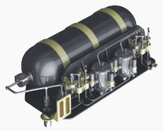


Star Tracker



Sun Sensor

Propulsion

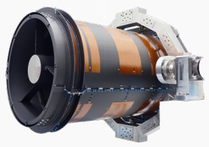


Xenon Feeding Unit

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.

SATREC INITIATIVE

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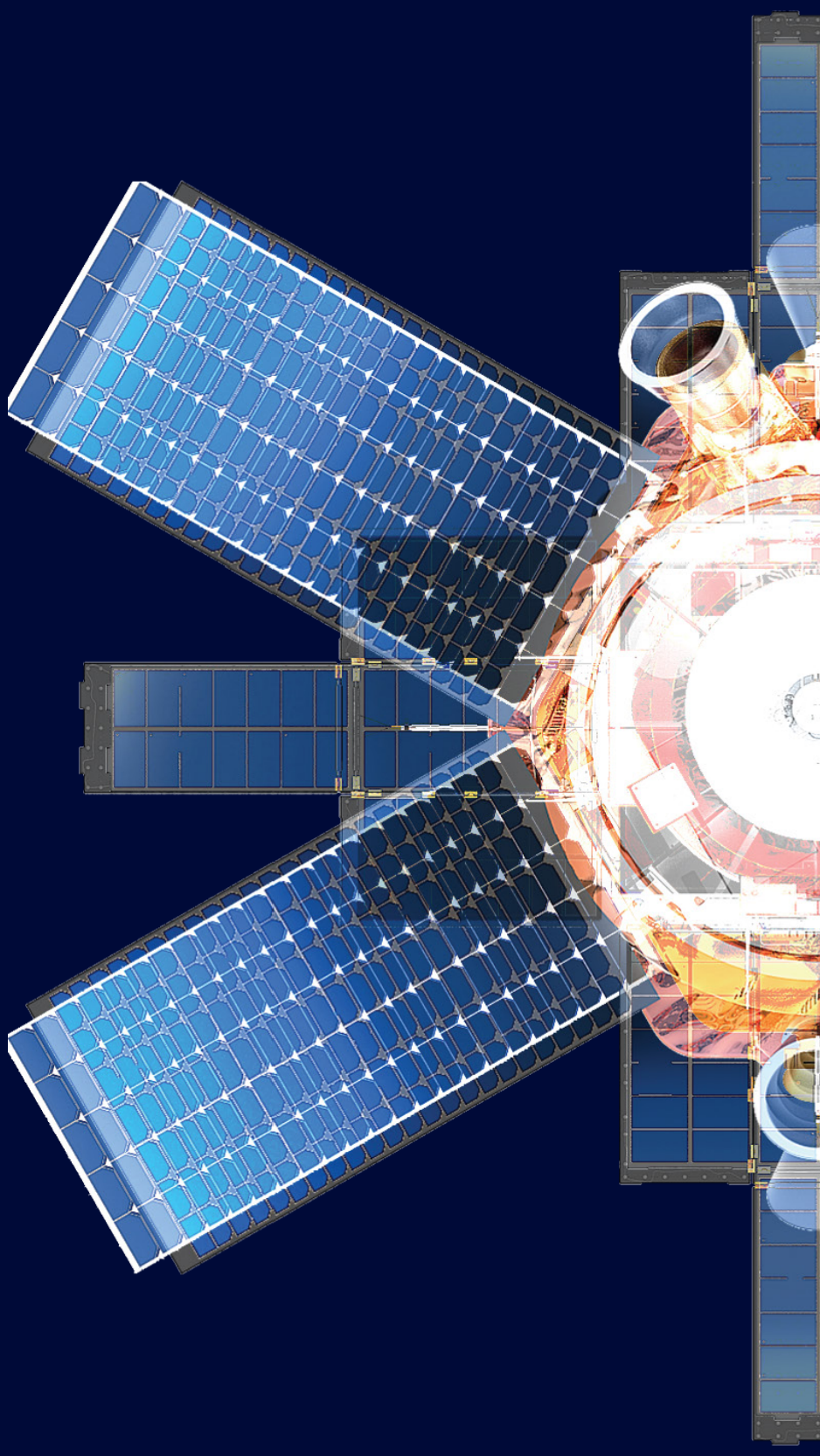
Republic of Korea

042-365-7500

www.satreci.com



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www.si-imaging.com

SIA SI ANALYTICS

www.si-analytics.ai