



INSPACE
TECHNOLOGY



Business Area.

All-in-One Space Data Fusion Decision Support

Earth Observation Image Data + Geospatial Data + Open Source



Business Area.

Comprehensive Solutions for Multi-Intelligence Systems Integrating Spatial Information and Multi-Domain Data for Advanced Services

Earth Observation

Hardware	CubeSat (Sejong series), Drones, Drone-in-a-box, long-range surveillance cameras
Software	OBC(On Board Computer with RTOS + FSW)
Systems	Control and data management system for satellite constellations and drone operations
Operational Focus	Product development, customization, maintenance

GIS & Spatial Analysis

Products	• InStation: Multisource data management, processing, analysis, and visualization platform • ORCA: A lightweight ecosystem of modular software, each dedicated to a specific core function of InStation
Operational Focus	Product sales, system deployment, maintenance

Positioning & Navigation

Systems	Maritime PNT systems, enhanced long-range navigation (eLoran), and mission planning for Korea Positioning System(KPS)
Operational Focus	System deployment, maintenance



Data Analysis



Security and Patrol Support



Disaster Monitoring



Smart City Development



Facility Monitoring



Surveillance & Reconnaissance

Business Workflow.

End-to-End Cloud-Based Integration Solutions from Spatial Data Collection to Analysis, Storage, Search, and Visualization

Collection

Analysis

DB Integration

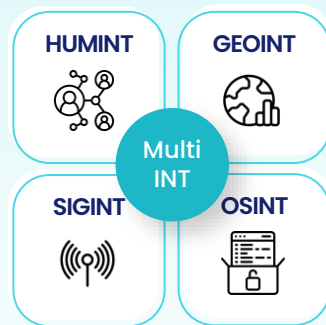
Search

Visualization

Multi-Domain Data Sources



Integrated Multi-Intelligence



Big Data Storage



High-Speed Search



User-Friendly Outputs



Core Business.

Ground Station Subsystem Development for Danuri: Korea's First Lunar Exploration Orbiter(KPLO)

- Satellite mission design, LUTI image data processing, and the development and operation of management systems for five scientific payloads (observation equipment) (2022-present)
- Participation in deep space exploration research as Korea's first private company
- Danuri's Scientific Payloads and Partner Organizations

Optical Telescope (LUTI)

Korea Aerospace Research Institute

Polarized Camera (PolCam)

Korea Astronomy and Research Institute

Magnetic Field Measurement (KMAG)

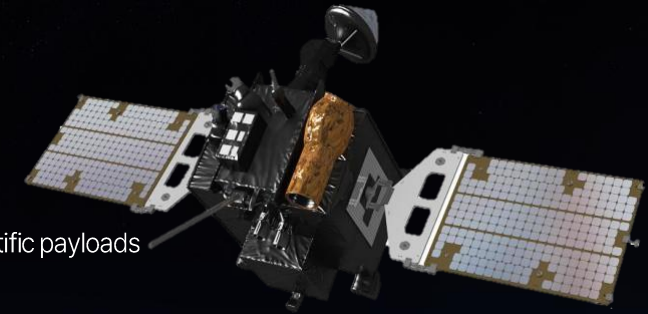
Kyung Hee University

Gamma-ray Spectrometer (KGRS)

Korea Institute of Geoscience And Mineral Resources

ShadowCam (SHC)

NASA (ASU)



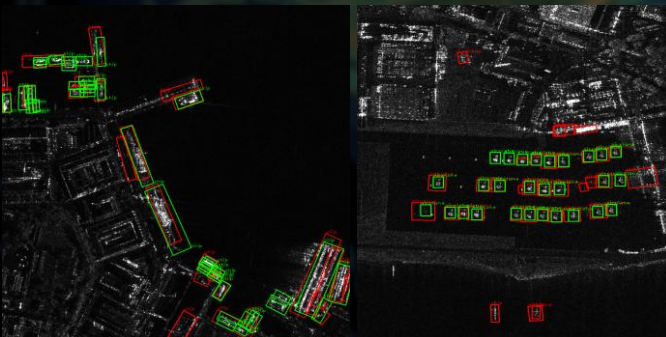
Major Ground Station Subsystem Developed and Operated by HANCOM InSpace

- Meteorological Satellite GK-2A Data Management System (Ground data management for the Korea Meteorological Administration)
- Environmental Satellite GK-2B Ground Station Subsystem (Global environmental monitoring and analysis)
- Water Resources Monitoring Ground Station Subsystem (Drought monitoring)
- KOMPSAT Series Ground Station Subsystem (Control, mission planning, scheduling, and data management)
- Nanosatellite Ground Station Subsystem (Operation of nanosatellite constellation and data management)

Core Business.

Development of Global Surveillance and Reconnaissance Software

- Independently developed satellite image collection, management, and analysis software to replace reliance on overseas solutions
- AI-powered analysis of optical and infrared imagery
- Capabilities for AI model retraining and dataset creation and management
- Overlay and presentation of analysis results using a terrain database
- Deep learning-based SAR image analysis services, operable in all weather and lighting conditions



Advanced Image Analysis Software Developed by HANCOM InSpace

Multi-Source Image Fusion System: Tailored for military surveillance and reconnaissance

InStation: Web-based multisource image processing and analysis platform

InExplorer: GS-Certified solution for image cataloging

InViewer: GS-Certified solution for image visualization and processing

InSight: GS-Certified solution for image analysis

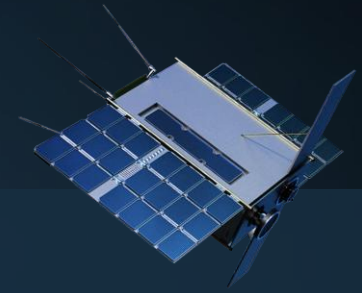


Core Business.

Sejong-1, Korea's First EO Commercial Satellite

Name	HANCOM Sat (Sejong-1)						
Size	100 x 200 x 300 mm (6U Cubesat)						
Weight	10.8kg						
Altitude	500km						
Swath	20km						
VNIR	7Bands						
Band	1	2	3	4	5	6	7
Center Wavelength	490	560	665	705	740	783	842
Resolution	5m GSD						
Revisit Time	5~7Days						
Orbital Lifespan	3Years						

- Offers satellite image sales services through a comprehensive system for ordering, imaging, and distribution
- Equipped with a red-edge band, optimized for vegetation index analysis of crops and forests
- Delivers change detection analysis services tailored for specific areas of interest
- Applicable across various fields, including agricultural environment analysis, forest resource management, disaster monitoring, and urban change detection



Sejong-2 (Launch Completed: June 2025)

- Same size and resolution as Sejong-1
- 8 multispectral bands
- Specialized in marine and agricultural monitoring as well as urban change detection missions

Sejong-3 (Launch Completed: March 2026)

- Same size and resolution as Sejong-1
- 442 hyperspectral bands
- Specialized for analyzing wildfire damage, air pollution, and river water quality assessment

Sejong-4 (Launch Completed: November 2025)

- Same size and resolution as Sejong-1
- 8 multispectral bands
- Incorporates a domestically developed OBC (Real-Time Operating System : NEOS + FS)

