





About PRENEU



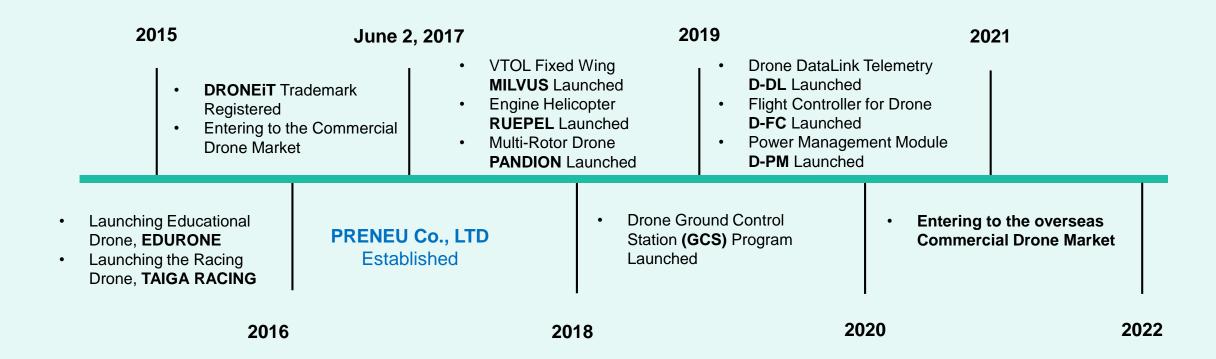
KOREA's #1 Commercial Drone Company

When drones began to emerge as an important factor in the 4th industry, PRENEU entered into Drone Business with its own IoT and Aviation Technology. PRENEU is expanding its business areas to industrial aircraft manufacturing and drone operation services.

PRENEU offers various industrial grade drones for Reconnaissance/Surveillance, Search/Rescue, Survey and Inspection. Also PRENEU is setting up an UAV ecosystem to contribute to our future society.

During last few years, PRENEU is able to participated in multiple military and government projects. Thanks to the successful accomplishment of all these nationwide projects, PRENEU has become the number one and largest drone company in Korea.

Company History



PRENEU Office

325 Sandan-ro, Ansan, Korea

Factory F501-503



Sales Office F1204-1205









Meet the Team



JK Lee CEO



JJ CMO



Mr. Ka CTO



DanSale Manager

Mission, Vision & Values

Mission

Convergence of IT and Drone Technology to make our life easier

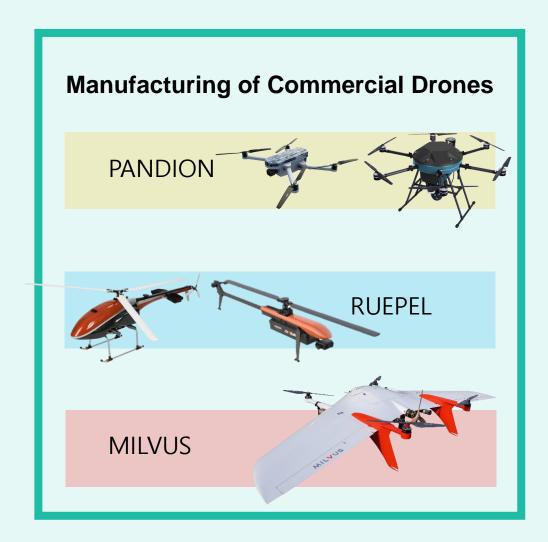
Vision

Drones for our Future

Values

Innovation – an Innovative thinking leads to the best technology



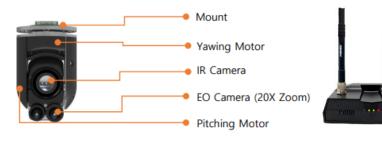




MILVUS R for RECON

VTOL-based fixed wing "MILVUS"







Rugged LAPTOP GCS (GTEC S410)





IMAGE TRACKING / MOTION DETECTING IR Camera for Fire Monitoring

Features	Specification
Weight w/o Payload	4.3kg
Take Off and Landing	VTOL(Vertical take off and landing)
Power Source	Electric motor
Material	FRP Composite, Carbon, Kevla
Number of Motors	5 EA
Max Payload	1.2kg
MTOW	7.9kg
Size	2,000 (Wingspan) * 770 (Length) * 300 (Height) mm
IPXX	IP43
Stall speed	13m/s
Cruise Speed	16~22m/s
Max ascent speed	2.5m/s
Max descent speen	3m/s
Max ceiling	1500m
Max flight time	Max 80min. Without Payload (60min with Payload)
Operating Temperature	-10~40 °C
Satellite System	GPS GNSS
Capacity	8300mah x 2EA
Voltage	22.2V
Cell	6 cell
Туре	LiPo
	Weight w/o Payload Take Off and Landing Power Source Material Number of Motors Max Payload MTOW Size IPXX Stall speed Cruise Speed Max ascent speed Max descent speen Max ceiling Max flight time Operating Temperature Satellite System Capacity Voltage Cell

MILVUS M for MAPPING

VTOL-based fixed wing "MILVUS"



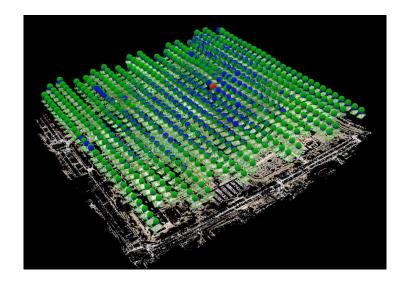








- Flight and Video Controller
- Mission Plan
- GPS Location and Battery Monitoring
- Real Time Video Monitoring through RF / LTE
- Auto Pilot Mode (From Take-offto Landing)
- Automatic Take-off / Mission / Return / Landing
 Monitoring Flight information during Operation
- D-GCS Program Installed



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RUEPEL R4 for Surveillance

UAV Helicopter "RUEPEL"

Provide drones services in harsh environments

Even under bad environments like sea, river and mountain with strong wind, limiting UAV-related services in the past, the RUEPEL ensures top-quality UAV services including surveillance, patrol, transportation and more.

Available Payloads



Patrol Monitoring



Facility Inspection



Disaster Response



Military Operation

13m/s

Max Operating Wind Speed

Max. 90min

Endurance

3kg

Max Payload

ASL 4km

Max Ceiling



PANDION H

Long flight time multicopter

Applied full-distance auto flight

Ensuring high efficiency with one-time flight of maximum 30 minutes, the PANDION enables users to easily select and utilize its various types for mission requirements, and provides auto-flight functions during entire flight through GCS, camera and self-designed applications which can be configured automatically.

Available Payloads





13m/s

Max Operating Wind Speed

Max. 30min

Endurance

8kg

Max Payload

Max. 60km/h (17m/s)

Max Speed

PANDION S1

Compact Size Quad-Copter "PANDION S1"

For Quick Patrol Mission and Facility Inspection

The compact size and tablet GCS equipment make it PANDION S1 very potable UAV System. It is a UAV that can perform reconnaissance missions at any time by minimizing the preparation process for UAV operation at the mission site. In addition, it is a UAV specialized for cracks and precise inspections of structures in industrial sites.





Potable GCS

- Android Base
- 2.4/5.8GHZ RadioLink

5 km

Max Operating Distance

Max. 30min

Endurance

250g

Max Payload

Max. 40km/h

Max Speed

Drone Parts

Internalization of Essential Core Parts - DRONEIT

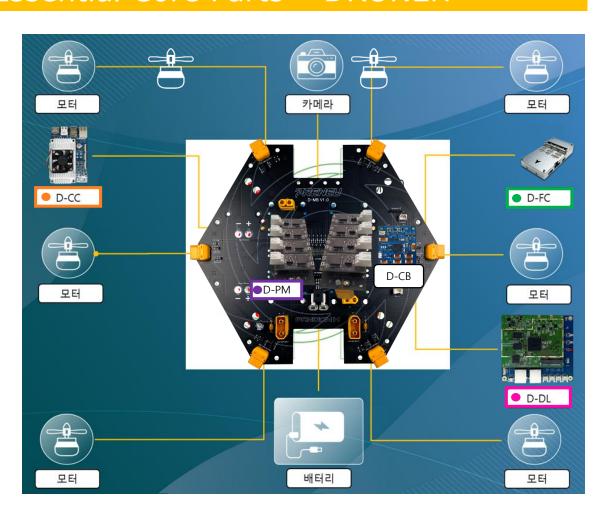
Mission Computer (D-CC)

Developed AI-based mission computer to carry out various missions of the UAV system

- Communication module integration
- AI-based image analysis
- Mission device control
- Obstacle evasion
- Auto-flight

Power Mgmt. (D-PM)

- ESC power balancing adjustment
- Servo module power adjustment
- Provide stable mission performance despite unstable conditions from bad weather (wind, etc.)



Flight Control (D-FC)

- ARM CORTEX-M7
- 480 MHz 1,024 KB RAM
- 8 FROM FMU



Data Link (D-DL)

- HD VIDEO & Telemetry
- 200mW TX Power & Over 10km
- EXTENED 4 Serial
- Easy Mounting



Emergency Kit Delivery Project

PRENEU drone operation

2018 Drone Show for medical drone demonstration to construct and commercialize the public medical safety networks of Jeollanam-do (9/6/2018)

(Jeollanam-do Office, Sinan-gun Office, National Association of Cognitive Science Industries, Korea Institute of Robotics and Technology Convergence, PRENEU, Lotte Communication Co.)

 After the demonstration, planning to review feasibility and pursue by linking with the Goheung Jeonnam and Jeonnam TP





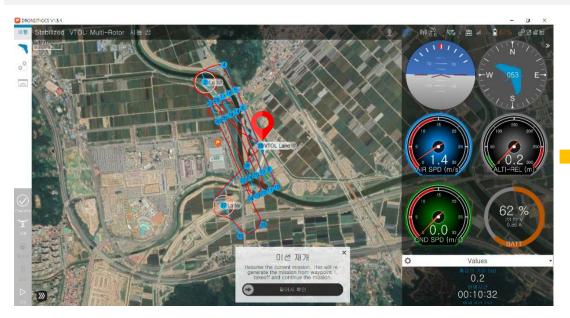




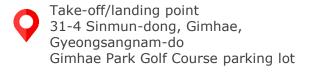
Aerial Survey

PRENEU drone operation

Surveyed rivers around Joman-gang (Riv.) of Gimhae

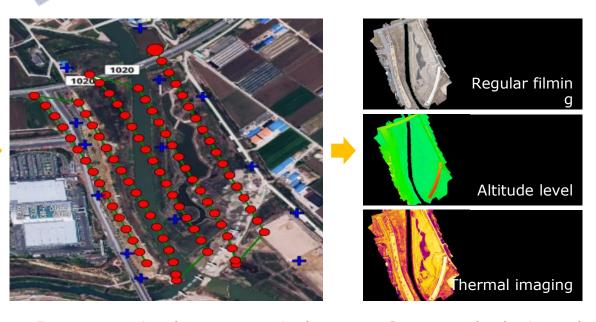


Flight plan (GCS auto flight)





Scope of filming app. 1km * 350m 350,000m2



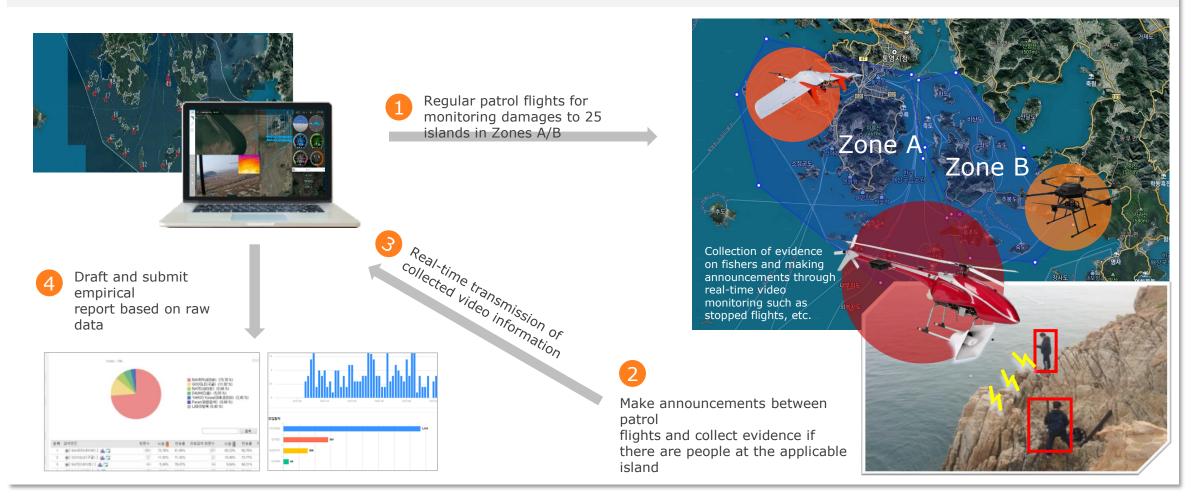
Data processing (post-processing)

Outcomes (ortho image)

National Seashore Park: Monitoring Unauthorized Activities

PRENEU drone operation

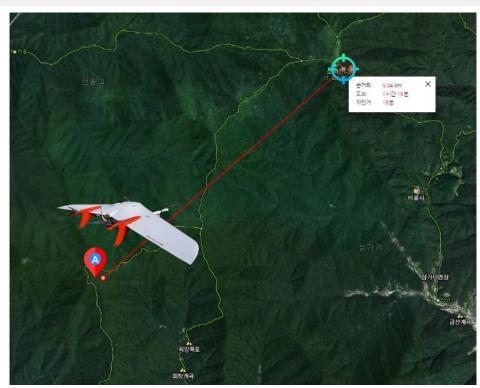
Monitoring system for damages to islands in the Marine National Park



Forest Monitoring (Pine Tree Disease) Project

PRENEU drone operation

Sobaeksan (Mt.) pine tree ecology analysis (Korea National Park Service)











Installation of RTK station for GPS error compensation



Takeoff/landing point

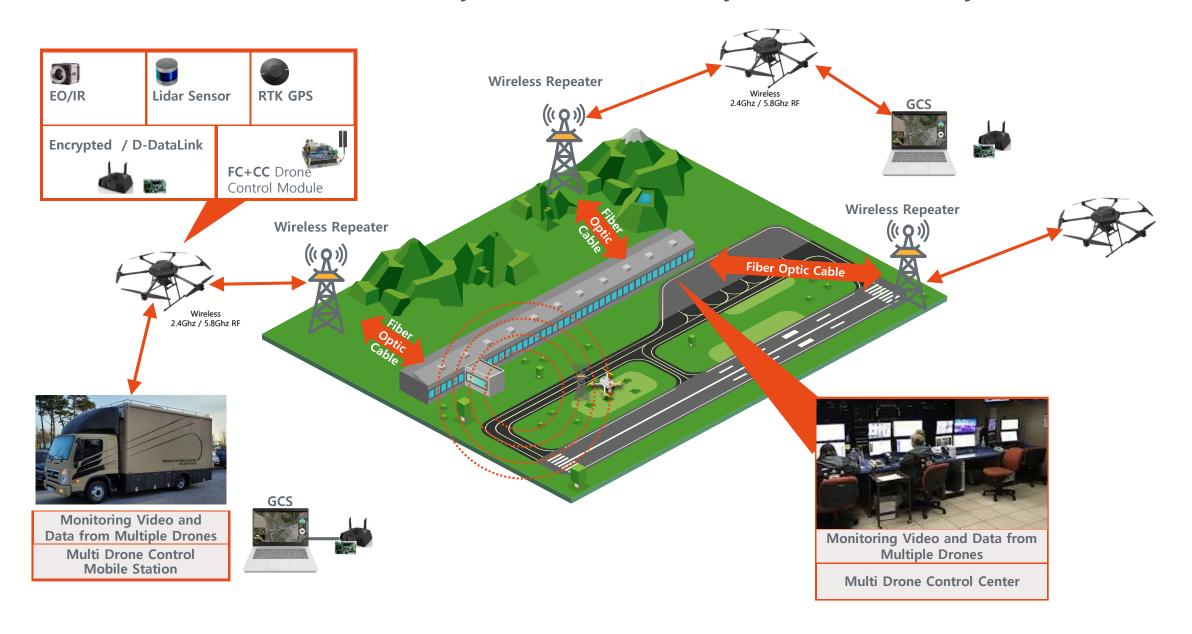


Temporary ground control center



Outcomes (ortho image)

Multi Drone Surveillance System for Military Base Security



Customers

Military Force









Aerospace Industry





Geospatial Industry







Trade Shows



2017. 9 Interdrone Las Vegas USA



2018. 5 AUVSI Xponential Denver USA



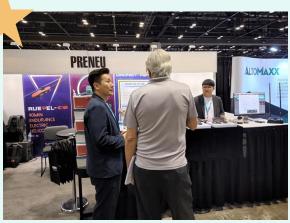
2018. 10 Commercial UAV Expo Las Vegas USA



2019. 5 Unmanned Systems Asia Singapore



2020. 2 African Drone Forum Rwanda



2022. 5 AUVSI Xponential Orlando USA

