

KOREA



Ministry of SMEs
and Startups



KBIZ Korea Federation
of SMEs



أديبيك
ADIPEC



أدنوك
ADNOC

Host

31 October - 3 November 2022
Abu Dhabi, United Arab Emirates



PRENEU

PRENEU is Korea's leading drone specialist providing innovative drone systems and services through convergence of H/W manufacture technology for drones and aviation, S/W development technology, and key IT technology.

- VTOL FIXED WING
- MULTI COPTER
- UNMANNED HELICOPTER
- D-PARTS

www.preneu.com





VTOL Fixed Wing UAV

MILVUS

Proven Quality, Many Applications

MILVUS has been supplied to military, public institutions, and private Companies. Its stability has been proven during operation. It provides efficient drone services for purposes such as aerial surveying, surveillance/reconnaissance, and emergency delivery.



VTOL
Vertical Take-Off
and Landing

58~80km/h
Cruise Speed

120km/h
Max Speed

Max. 80min
Endurance

PAYLOAD
EO/IR(Dual) / Survey Camera / Multi Spectral Sensor / PPK

APPLICATION

Survey

- Geospatial data acquisition and cadastral survey
- Aerial Mapping

Public Safety

- Pipeline Surveillance
- Sea shore, River shore Monitoring

Defense

- Military Air Defense Training
- Military Reconnaissance Mission

Mission Payloads



EO/IR (Dual)

Multi Spectral Sensor

PPK

LRF

SEARCHLIGHT



SPEAKER

High Resolution Survey Camera

High Resolution EO for Inspection

LIDAR

Safety Parachute, Buoyancy kit

Delivery Kit

Compact Multi purpose UAV

PANDION S

Light! Durable! Portable!

Pandion S is a very portable UAV system with a weight of 1.6kg, and its ultra-small EO/IR camera dedicated to Pandion S allow you to perform missions easily and quickly.



13m/s
Wind Resistance

Max. 30min
Endurance

1.6kg
Weight

PAYLOAD

EO/IR(Dual) / LRF / SEARCHLIGHT / SPEAKER

APPLICATION

Surveillance/ Reconnaissance

- Urban Aerial Monitoring

Facility Inspection

- AI base precise Power line, Solar Cell Panel Inspection

Defense

- Military Base Surveillance
- Military Training

PANDION

Auto-Pilot Hexa-Copter

It provides automatic flight and obstacle detection/avoidance flight through the self-designed application and automatic setting of the camera and GCS.



13m/s
Wind Resistance

Max. 45min
Endurance

8kg
Payload

PAYLOAD

EO/IR(Dual) / LIDAR / Delivery Kit

APPLICATION

Precision Measurement

- Radio Frequency Measurement
- Facial Recognition

Survey

- Geospatial data acquisition and cadastral survey

Defense

- Military Base Surveillance
- Military Training

Surveillance/ Reconnaissance

- Day/Night Reconnaissance

Modular Type Electric Helicopter UAV

RUEPEL-E10

Great Usability based on Various Mission Payloads.

It provides special mission services such as search/rescue using UAV in areas with harsh environmental conditions, such as maritime and mountainous areas



13m/s
Wind Resistance

Max. 90min
Endurance

3kg
Payload

ASL 3.3km
Max Ceiling

PAYLOAD

EO/IR(Dual) / LIDAR

APPLICATION

Surveillance/ Reconnaissance

- Maritime, Mountain Area Monitoring

Defense

- Military Operation
- Warship Mounting UAV

Special Survey

- Special Purpose Mission Device-Based Surveying



Software



DRONEiT-GCS

- Provide real-time information including flight mode, flight speed, flight distance, camera status, GPS coordinates and UAV battery status.
- Real-time flight/video control system
- Video data transmission over LTE network
- Autonomous waypoint flight
- Auto take-off, return, landing, flight, actions according to missions
- Simultaneous control of multiple UAVs with an one operator



DRONEiT-UTM

- Provide information for the flight environment
- Multiple UAVs management
- Video data streaming from multiple UAVs
- Collision monitoring between registered UAVs
- Flight approval process through the GCS
- Geospatial data acquisition
- Compliance with the UTM ISO Standard

DRONEiT-Parts

DRONEiT-DL-V2 & DRONEiT-DS & Encryption module

DRONEiT DL-V2 is a compact size datalink dedicated to UAVs complying with UAV frequency band 5.030~5.150GHz also 2.4GHz and 5.3~5.825GHz.

- FHD video transmission (Up to 5km)
- Additional expansion ports with the Drone-optimized Interface
- Integrated transmission for video and flight information
- Compact size (80mm*50mm*25mm)



DRONEiT-CC & DRONEiT-FC

CC (Image Recognition) + FC (UAV Control) Integrated board

- Support AI functions including Image recognition, Collision avoidance and etc.
- MAVLink communication between the CC and FC board
- Easy Customization with compact size

DRONEiT-CC & DRONEiT-DL

CC (Image Recognition) + DL (DataLink) Integrated board

- Support RJ45 Ethernet (10/100/1000 Mbps)
- Support HDMI, USB Type camera
- Support LTE networks



DRONEiT-PM | Power Module

- Shock and Vibration-resistance structure for stable performance
- Voltage regulation function for each mission devices
- Providing up to 4A output for each port

DRONEiT-FC | Flight Controller

- Designed into Single-board flight controller type
- STM32H7 Series 32-bit Arm® Cortex®-M7 (Clock : 480MHz)
- Support 8 sensors



An innovative company that challenges creation of new opportunities through drone and IT technology convergence

PRENEU is a leading drone company in Korea that provides innovative drone systems and services through the convergence of drone and aviation H/W manufacturing technology, S/W development technology, and IT technology.

Business Area



DRONEiT Service Platform

We provide platform-based services that can maximize the utility of drones through convergence with IT technology.

AI-based task support Service

- Real-time Image Analysis service
- Analyze / forecast changes in terrains and major facilities
- Fire detection and forecasting modeling
- Forecasting and monitoring crops and scanning vulnerable areas
- Estimating volume and weight of shipments
- Accurate AI analysis with the cloud-based learning AI engine

Cloud-based UAV Traffic Management Service

- Provide information for the flight environment
- Multiple UAVs and User management
- Video data streaming from multiple UAVs
- Collision monitoring between registered UAVs
- Flight approval process through the GCS
- Geospatial data acquisition
- Flight log data management
- Compliance with UTM ISO Standard

Logistics Delivery / Indoor Inspection / Diagnosis Service

Drone Logistics and Transportation Service

- Mail delivery service for isolated area
- Daily necessities delivery
- Medical / daily supplies delivery to isolated area

Indoor Mapping and Solar Panel Inspection Service

- Indoor Mapping and Inspection for buildings under construction
- Plant equipment inspection
- Solar panel inspection

Drone rental, education, matching and development Service

- Short-term drone rental and after-sales service
- Education for drone operator and developer (online-offline)
- Simulation training for drone operation and maintenance
- Counselling and Supporting to make better outcome with drone operation
- R&D Cooperation



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