



**ND Ndrone**



The background of the slide is a photograph of a propeller-driven aircraft in flight, viewed from below. The image is split diagonally from the top-left to the bottom-right. The upper-left portion shows the sky with some clouds, while the lower-right portion shows a brown, hilly landscape. The aircraft is positioned in the upper-left quadrant, flying towards the right.

# Table of Contents

**I. Company Overview**

**II. Business Area**

**III. Military**

**IV. Fire-fighting**

**V. Logistics, Pest control**

**VI. References**

# I. Company Overview

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1. Company Introduction
2. History
3. Patents Status
4. Certification Status

# 1.

## Company Introduction

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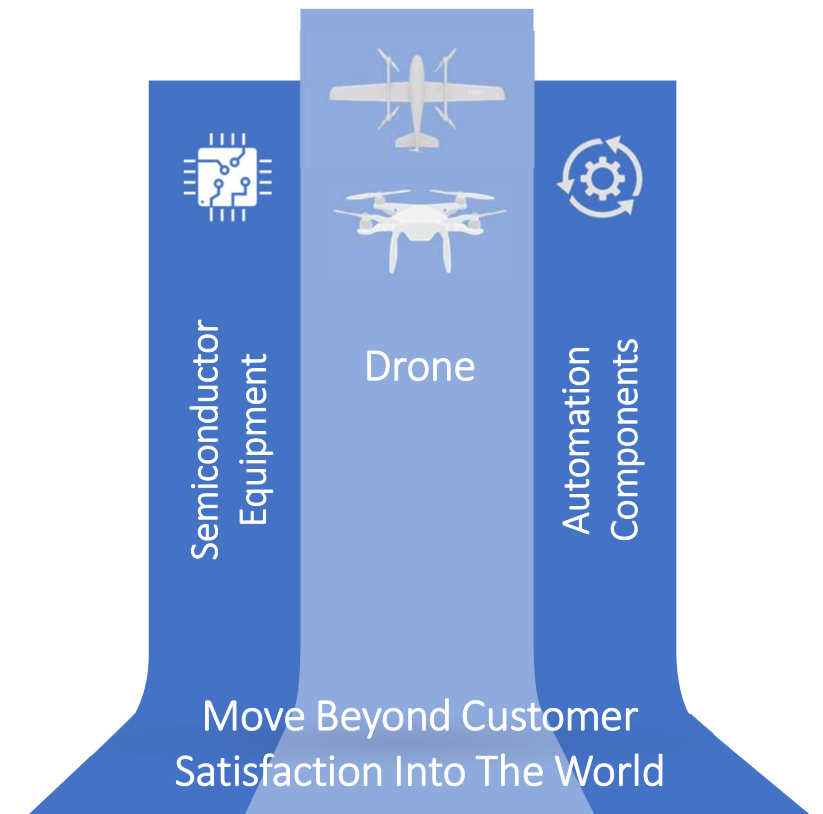
### I. Company Overview

#### Global, Process Basis & Mass Production Company

World Wide Business	World Best Product	World First Process
Enter and expand global markets by strengthening and expanding business capabilities and building and strengthening overseas networks	Achieve world-leading commercialization by empowering core technologies and maximizing existing core products	Discover new customer value and integrate our core and peripheral technologies to make the world's first process commercial

Company Profile	Company Name	NEONTECH Co.,Ltd.
	Established Date	2000. 10. 23.
	CEO	Hwang, Seong-il
	Address	1745-3 Gwangyang-Dong, Dongan-gu, Anyang-si, Gyeonggi-do, Korea
	URL	<a href="http://www.neontech.co.kr">www.neontech.co.kr</a>
	Sales Revenue	30 million USD (FY2021)
	Employee	180
	Business Area	<ul style="list-style-type: none"> <li>▪ <b>Drone Business</b> <ul style="list-style-type: none"> <li>- Provide total Military/Fire-fighting/Logistics/Pest control drone solutions</li> </ul> </li> <li>▪ Semiconductor Equipment Business                             <ul style="list-style-type: none"> <li>- Dicing Saw, Saw &amp; Sorter, MLCC Cutter</li> <li>- Wafer Cleaner</li> </ul> </li> <li>▪ Automation Components Business                             <ul style="list-style-type: none"> <li>- PLC, Inverter, Reducer, Multi-joint Robot</li> </ul> </li> </ul>

## Global Innovation to NEONTECH





ND Ndrone

2015  
~2017

- **Launch of Drone Business**
- Review of Industrial Drone Business
- Reorganization of Drone Business Department
- 1st Drone Challenge Award (Army Headquarters)
- Logistics delivery demonstration (post office headquarters)

2018

- December- Logistics delivery demonstration (Ministry of Public Administration and Security)

2019  
~2020

- BEXCO's Drone Show Korea Participates
- Demonstration of sea delivery (Ulsan-si)
- **Ordering surveillance drone (51st Division)**
- **Fourth Industrial Revolution Power Korea Selected as the Best Company in Daejeon (Ministry of Defense)**
- Ordering surveillance drone (Busan Customs)
- **2nd Drone Challenge Excellence Award (Army Headquarters)**

2021

- Joint participation in CES 2021 with GS Caltex
- **Anyang City Fire Drone and Operating System Delivery**
- **High Performance VTOL Development Agreement with Turkey ESEN**
- **Joined the Korea Defense Development Association as a quasi-member**
- Excellent security measurement to launch defense projects
- 'National Assignment' Satisfy 3rd Year Performance (Successful flight of 20Km with 10Kg)
- Multi-Branch Logistics Delivery Demonstration Flight 155 Successful (Wonsando-Hyojado-Sodo)
- **Obtain 40 kg/20 kg drone safety certification**



# 3. Patents Status

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## I. Company Overview



### No. 10-2086344

Drone with body cooling function through air circulation hole



### No. 10-2108415

Drone to improve flight performance



### No. 10-2265865

Remote multi-point delivery method



### No. 10-2172493

Drone operation system for Golf course



### No. 10-2256892

Multi-remote controller auto-switching module and unmanned aerial vehicles



### No. 10-2172495

Drone operation system for Painting



### No. 10-2281004

Drone operation system for Fire-fighting



### No. 10-2371766

Data Processing Device for Drone for Backing Mission Big Data Analysis and AI Processing

# 4.

## I. Company Overview

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## Drone R&D Center Certi



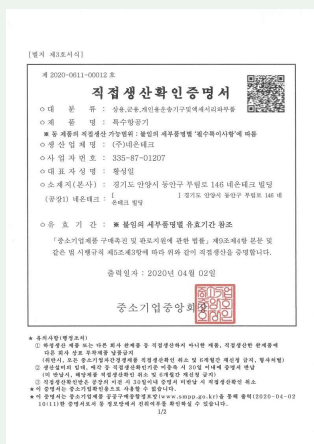
## KC Certi (ND-820)



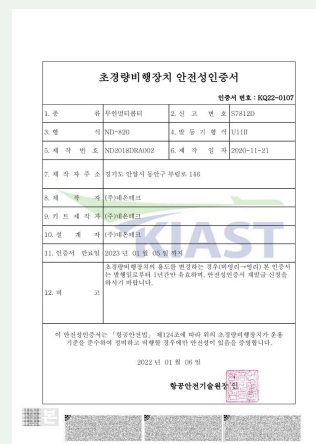
**KC Certi (ND-605)**



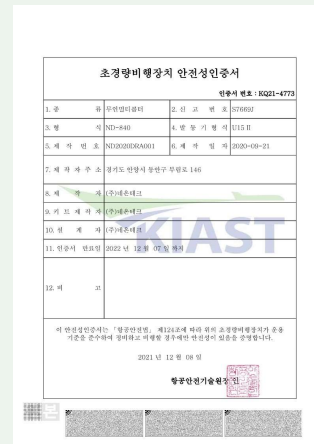
## KC Certi (ND-810)



## Direct Production Confirmation



## Safety certificate (ND-820)



## Safety certificate (ND-840)

# II. Business Area

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## 1. Business Area



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## Deliver customized Drone Solutions based on Four Strategic Areas

### Logistics : Multi-Point Logistics Drone Operating System



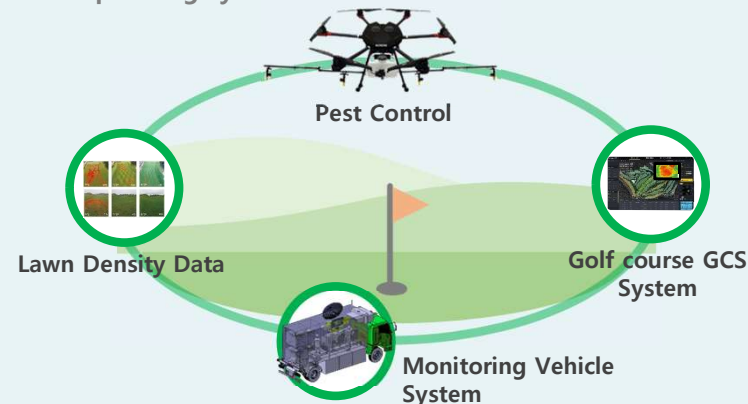
### Military : Multi-purpose and Smart Reconnaissance Drone Operating System



### Fire-fighting : Day and Night Fire Monitoring/Initial Control/Prevention Fire Drone Operating System



### Pest Control : Cost-saving and efficiency-maximizing drone operating system





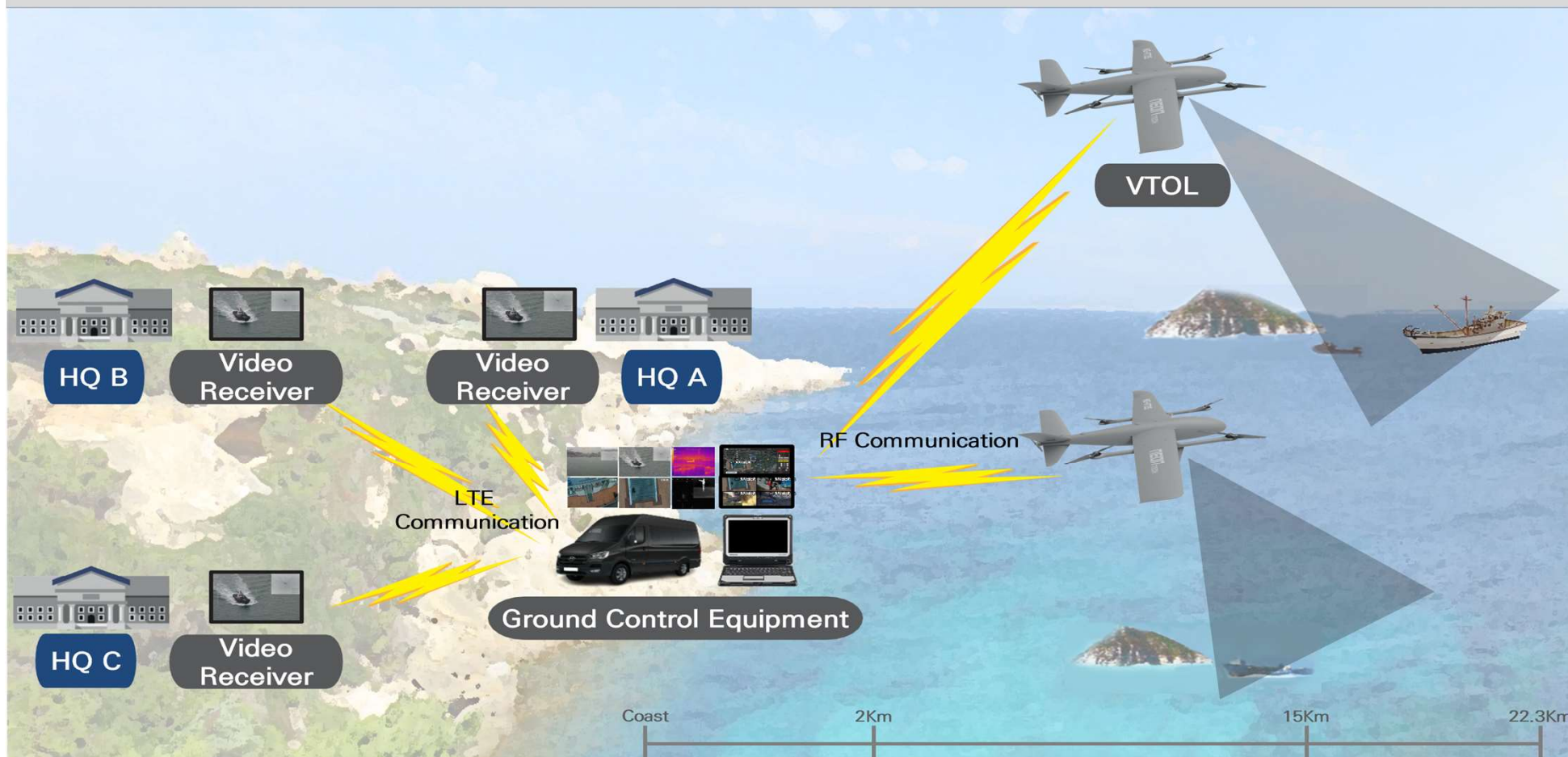
# III. Military

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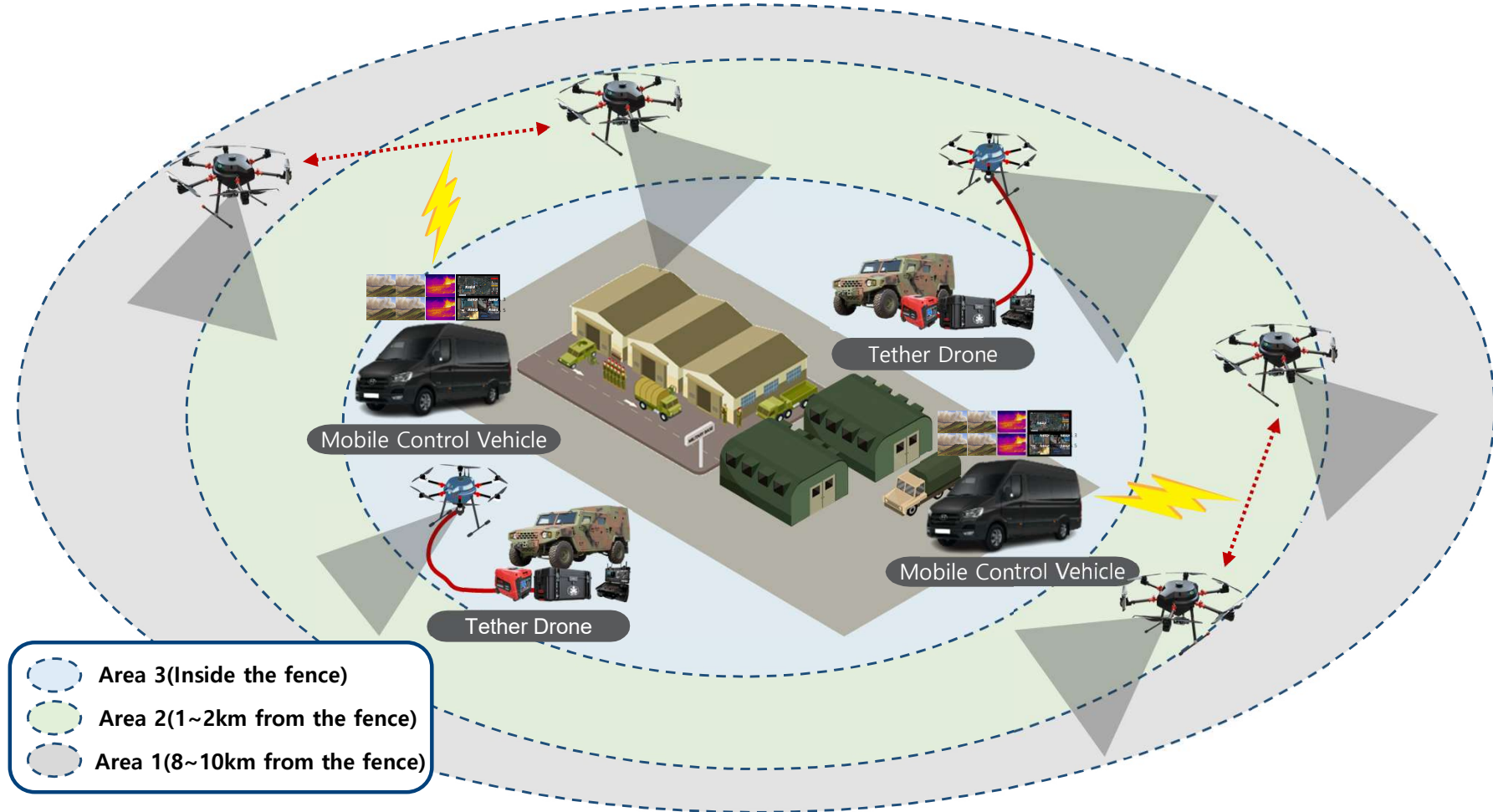
1. Reconnaissance Drone System
2. Boundary Drone System
3. Multi-Point Operational Control Surveillance Drone System
4. Mobile Control Vehicle System
5. Product Line-up

## Proposal of VTOL Coast Reconnaissance Operation System

- Monitoring, target acquisition and verification with an EO/IR camera
- Controlled by ground control equipment, and target information is shared through the video receiver

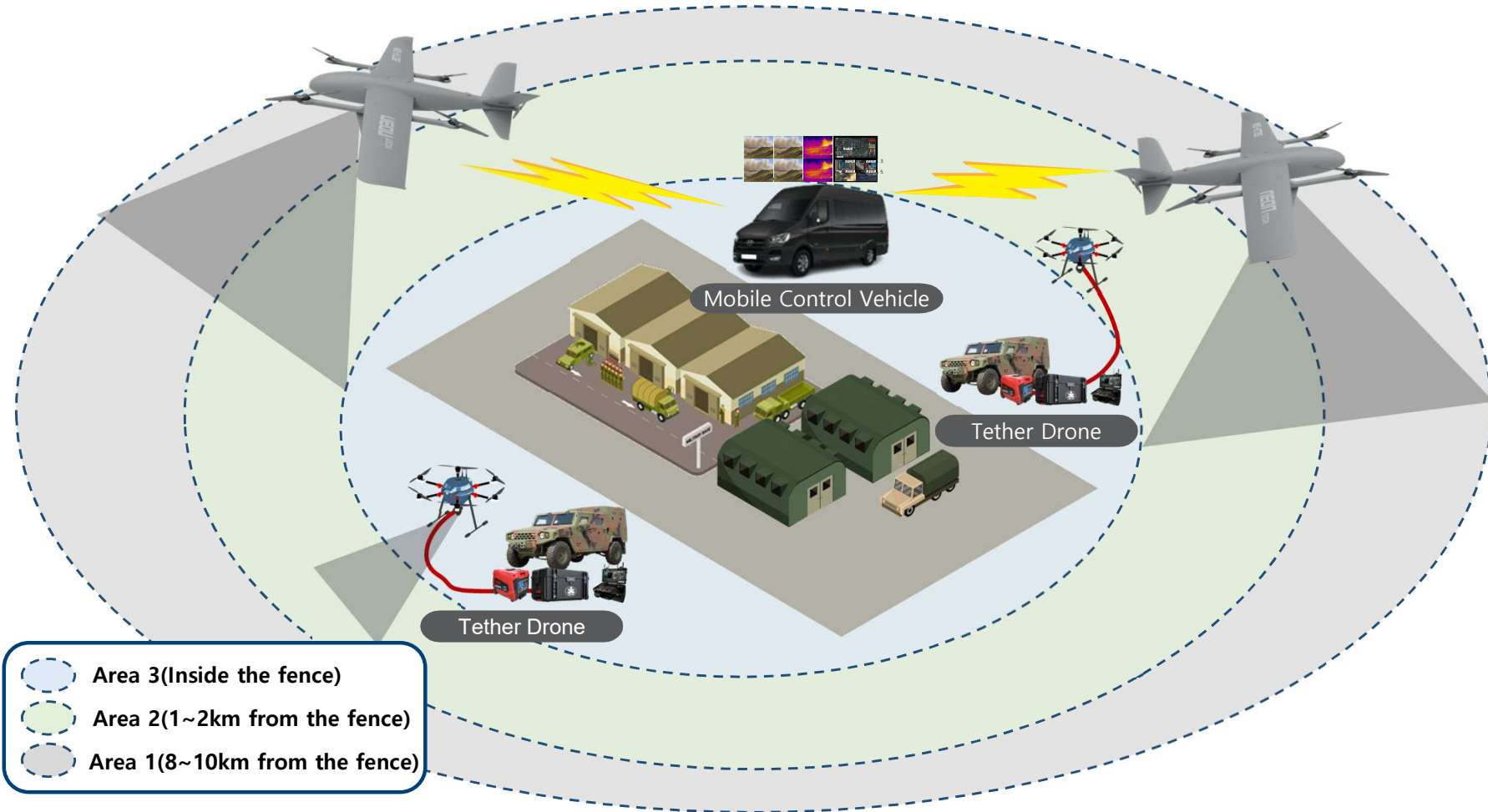


## 2.1 Proposal of Multi-Copter Control Operating System



- 2 Wired Tether Drone / 4 Wireless Drone Operations
- Separate controls for each Drone
- **Centralized Operational Control**
- **The controller can control and transfer control of six drones**

## 2.2 Proposal of VTOL Control Operating System



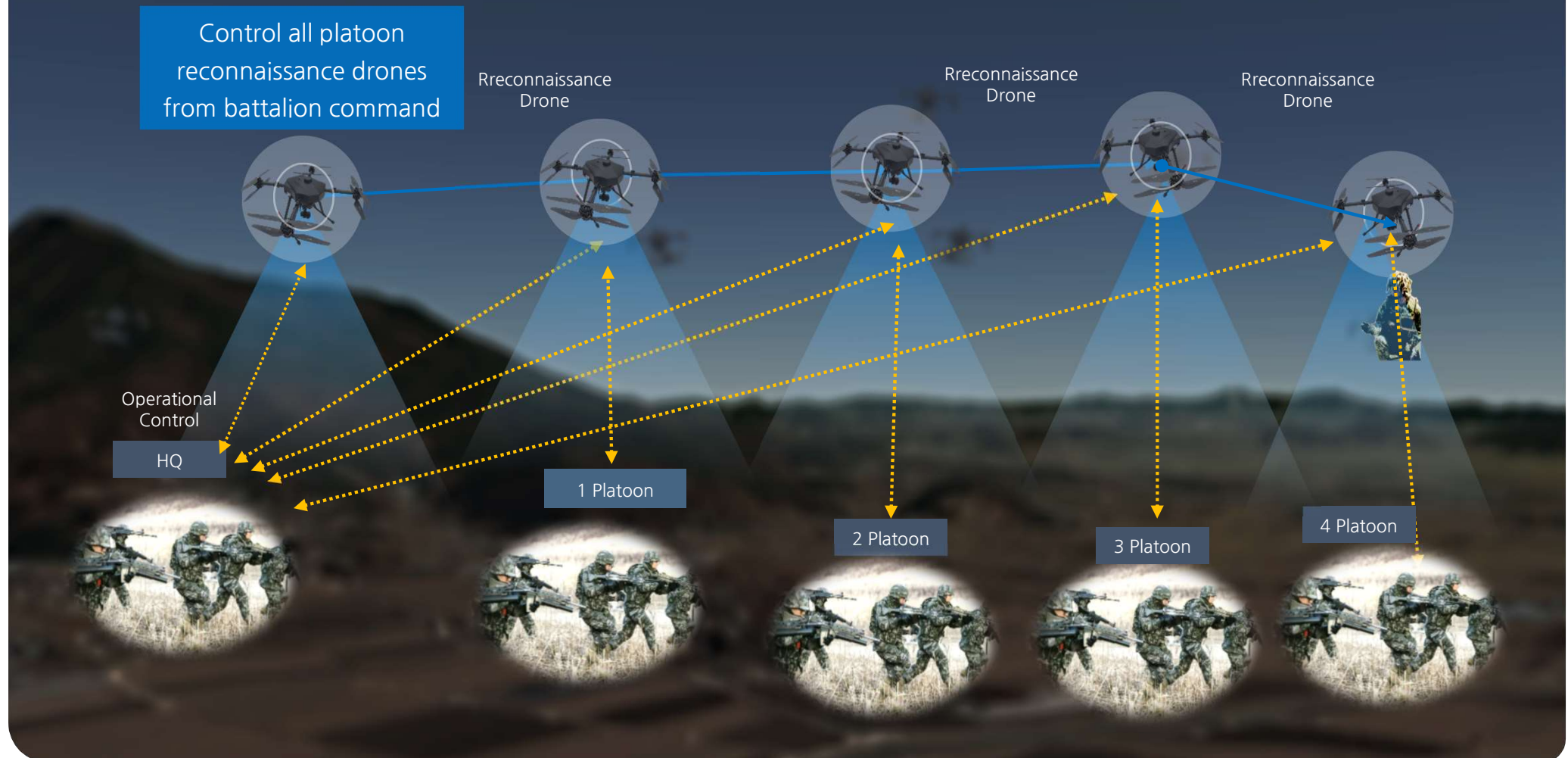
- **2 Wired Tether Drone / 2 VTOL Concurrent Operations**
- **More than 20km, 2 hours reconnaissance**
- **Zone designation concurrent control reconnaissance is possible**
- **Mobile control vehicle control**



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All platoon drones can be controlled from battalion command post (total 7 platoon drone control)

## Battalion Multi-Point Operational Control Surveillance Drone Operation Concept





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## Mobile Video Control System

- Application of operational management/control technologies such as real-time monitoring and control of movement situations that can be controlled and controlled with multiple drones and mission equipment based on non-visible communication

## Development of Integrated Vehicle Monitoring Unit

- Simultaneous control/control of multiple drones

## Vehicle Imaging Unit Implementation

- Image recording and mobile video transmission



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## Tether Drone (Wired)



Wire Length	• 100m / 300 ft
Micro Tether Weight	• 16 g/m
Output Voltage	• 6S or 12S
Data Speed	• 200 Mb/s
Size	• 650 x 380 x 360 mm
Weight	• 23 kg

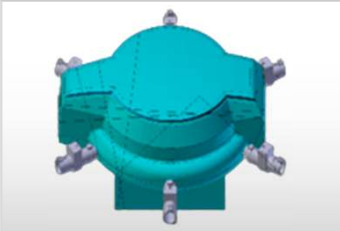
Item	Specification	
Drone Size	• 960mm × 960mm × 570mm	
Operating Altitude	• 500m	
Operating Time	• 40 min	
Encryption Equipment	• Built-in KCMVP certification and real-time video encryption	
Tether System	Operating Altitude	50m
	Operating Time	6 hour
	• Self-winch system, adjusting cable length according to altitude	
	• Can be operated in conjunction with drones and ground control equipment * Land power connection + portable power supply (small generator or UPS) • Power Supply Using Portable Power Supply • 220V power connection support for long-term operations	
GCS	• Transmission of drone state, image, coordinate, GPS information	

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## Reconnaissance Drone (ND-605)



## Improvement frame design



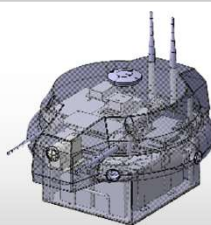
- IP54 Dustproof and Waterproof Design

## Solid material



- High Strength Lightweight Nylon Material Application
- Air circulation hole design eliminates heat generation

## Free up interior space



- Canopy space enables tactical operations with more on-board equipment

Item	Specification
Drone Information	<ul style="list-style-type: none"> <li>• Hexa Copter</li> <li>• Size : 970 × 970 × 470 mm</li> <li>• Weight not more than 12 kg (including battery and payload)</li> <li>• Foldable Arm Design</li> </ul>
Operating Time	<ul style="list-style-type: none"> <li>• 30 min</li> </ul>
Wind Resistance	<ul style="list-style-type: none"> <li>• 10~12m/s</li> </ul>
Max Speed	<ul style="list-style-type: none"> <li>• 60Km/h</li> </ul>
Control Method	<ul style="list-style-type: none"> <li>• RF/LTE Multi Control               <ul style="list-style-type: none"> <li>- RF : Drone Control</li> <li>- LTE : Video Signal</li> </ul> </li> </ul>
Control Distance	<ul style="list-style-type: none"> <li>• Distance 3Km / Elevation 100m</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• -10 ~ 40°C</li> </ul>
Feature	<ul style="list-style-type: none"> <li>• Installation of life tubes for marine fall preparedness and photo/Image Storage (64GB SD Card)</li> <li>• Installation of LED drone identification lamp in drone landing area</li> <li>• Return To Home function can be operated in the event of an emergency during flight (signal failure, low battery, flight able wind speed exceeded, flight height exceeded, flight radius exceeded)</li> </ul>

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## Reconnaissance Drone (ND-405)



FC



- Various sensor linkage functions
- Non-GPS Flight able
- Black box functionality included

Object Detection Module



- AI Edge Module (A2P-12)

Distance Multipoint Switching Technology



- GCS-Controller LTE/Rf-based control can be changed

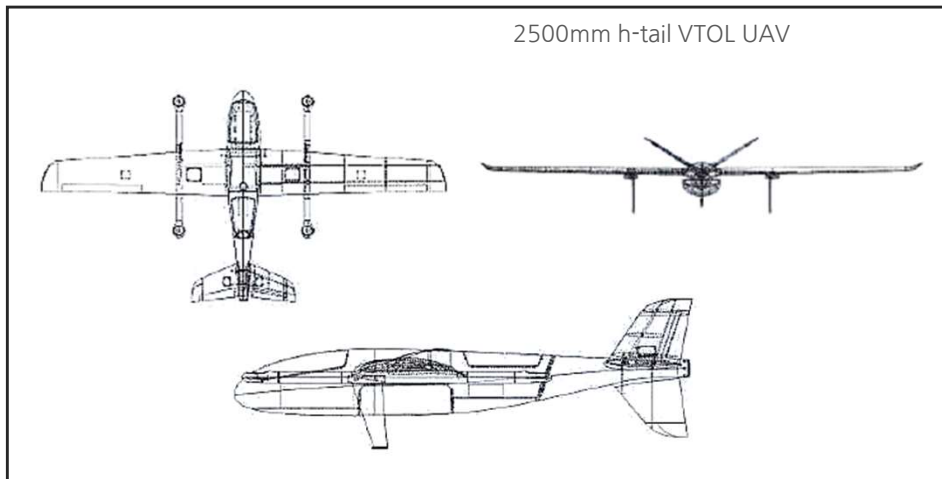
Item	Specification
Drone Information	<ul style="list-style-type: none"> <li>• Size : 1000 * 1000 * 600mm 이하(프롭제외)</li> <li>• Weight : 15Kg (Battery, mission equipment excluded)</li> </ul>
Operating Time	<ul style="list-style-type: none"> <li>• Hoverling: 30 min</li> <li>• Mission flight: 20 minutes</li> </ul>
Wind Resistance	<ul style="list-style-type: none"> <li>• 10m/s</li> </ul>
Max Speed	<ul style="list-style-type: none"> <li>• 40Km/h</li> </ul>
Control Method	<ul style="list-style-type: none"> <li>• RF/LTE Multi Control               <ul style="list-style-type: none"> <li>- RF : Drone Control</li> <li>- LTE : Video Signal</li> </ul> </li> </ul>
Control Distance	<ul style="list-style-type: none"> <li>• Distance 3Km / Elevation 150m</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• -10 ~ 40°C</li> </ul>
기 타	<ul style="list-style-type: none"> <li>• FPV camera (HD class, data link all-in-one)</li> <li>• Store data with 512G memory or more in the MC</li> <li>• Front obstacle detection sensor installation</li> <li>• Equipped with drone loss notification system</li> <li>• EO/IR Optical 30x Zoom Camera</li> <li>• Waterproof dustproof grade: IP43</li> </ul>

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## VTOL (ND-VT25)



2500mm h-tail VTOL UAV



Item	Specification
Type	• VTOL
Size	• 1,260 x 2,500 x 350 mm (L x W x H)
Weight	• 6 kg (Battery, mission equipment excluded) • MTOW : 13.5 kg
Operating Time	• 3.5 hour
Operating Distance	• 20 km
Max Speed	• 100 km
Data Link	• Encryption (KCMVP) functionality
Mission Equipment	• EO/IR 30x Optical Zoom



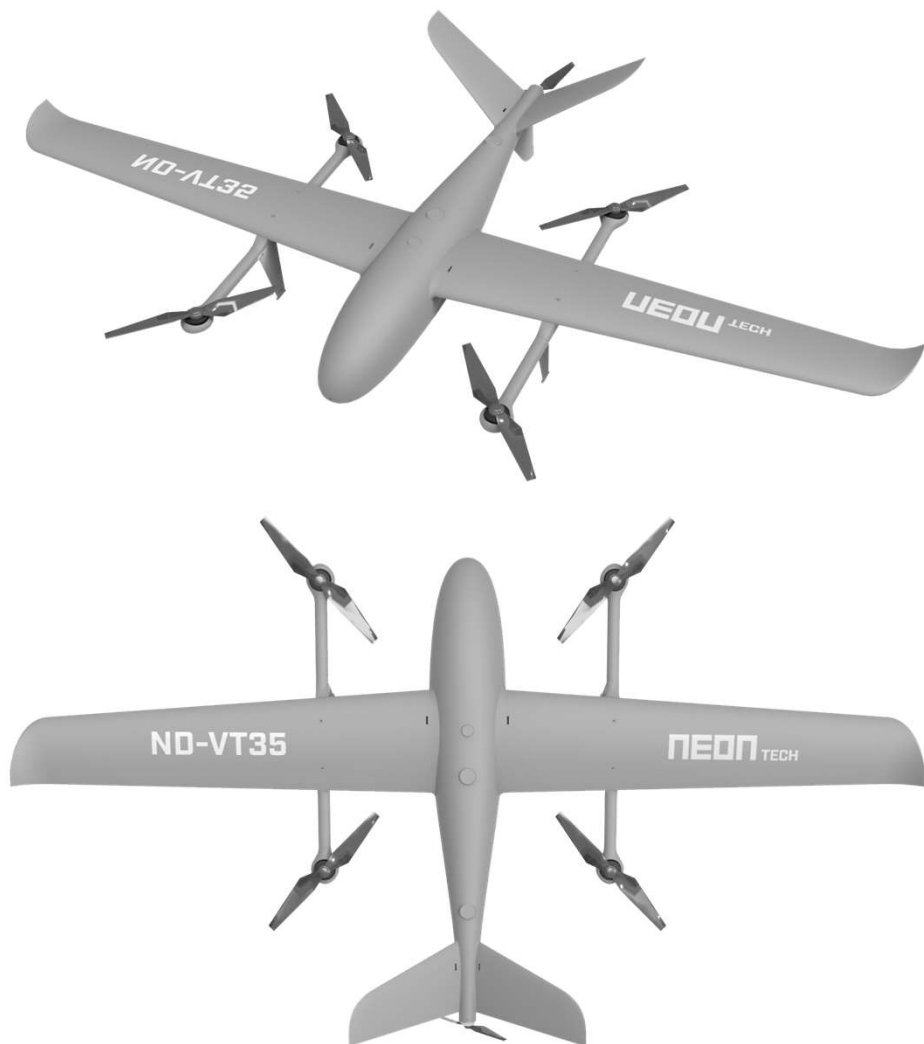
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## VTOL (ND-VT25) Test Flight



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## VTOL (ND-VT35)



Item	Specification
Type	• VTOL
Size	• 1,880 x 3,500 x 370 mm (L x W x H)
Weight	• 9kg (Battery, mission equipment excluded)
Operating Time	• 2 hour
Operating Distance	• 25 km
Max Speed	• 100 km
Data Link	• Encryption (KCMVP) functionality
Mission Equipment	• EO/IR 30x Optical Zoom

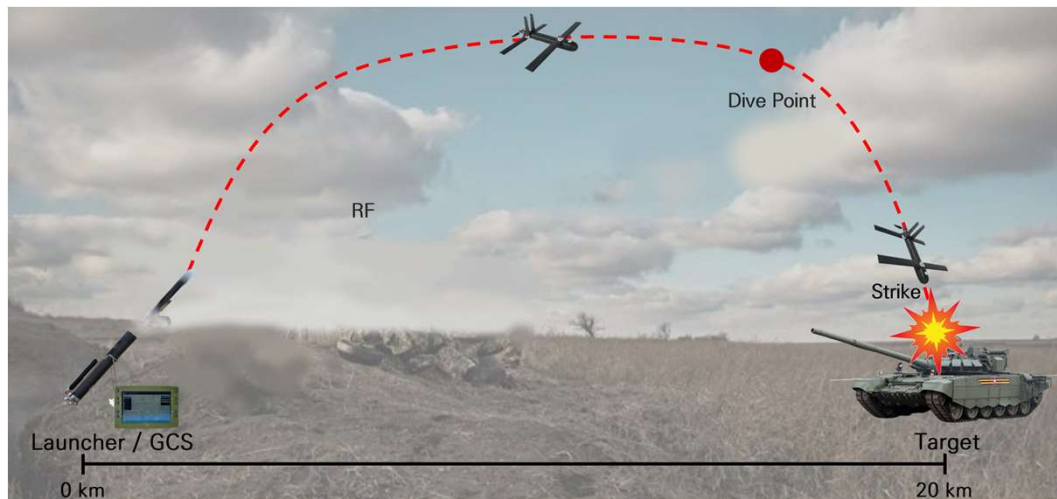
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## VTOL (ND-VT35) Test Flight



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## Silent Assassin (Attack drone)



Item	Specification
Type	• Canister Launch VTOL Type
Range	• 20 km
Speed	• 120 km/h (cruise), 160 km/h (dive)
Max Operational Altitude	• 250 m(AGL), 5000m (MSL)
Weight	• 1.5 kg(including warhead) • 3.5 kg(including launcher)
Payload	• 400 gr multi-purpose:250 mm RHA armour piercing, anti-personnel, high explosive(HMX)
Data Link	• Encryption (KCMVP) functionality
Launcher Type	• Pneumatic
Operational readiness	• < 2 minutes

# IV. Fire-fighting

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1. Fire-fighting Drone Operating System
2. Fire-fighting Drone Control System
3. Product Line-up



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## 24h Fire Monitoring System / Real-time Video Shooting & Transmission

Fire Hydrant Drone (powder type)



powder/liquid fire extinguishers for initial extinguishing and residual fire extinguishing

24h Monitoring Tether Drone



site surveillance and reconnaissance drone

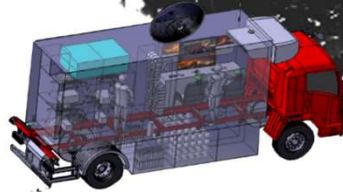


A close-up photograph of the fire scene and provide it to the fire control center in real time



Break the window of a building with grenades and fire extinguishers

Smart Fire Control Vehicle System



Mobile Control System

Fire Control Integrated System

connection with the comprehensive disaster management system and fire department

## 2.

# Fire-fighting Drone Control System

## IV. Fire-fighting

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Local Government

Fire Station



Real-time video  
Fire Location Transmission

Real-time video  
Fire Location Transmission

Real-time video transmission to the comprehensive disaster management system

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## Tether Drone (Wired)



Wire Length	• 100m / 300 ft
Micro Tether Weight	• 16 g/m
Output Voltage	• 6S or 12S
Data Speed	• 200 Mb/s
Size	• 650 x 380 x 360 mm
Weight	• 23 kg

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GCS	• Transmission of drone state, image, coordinate, GPS information	

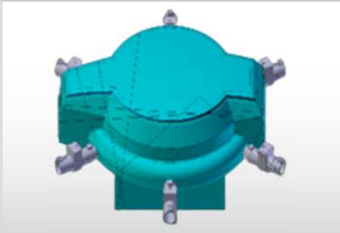


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## Reconnaissance Drone (ND-605)



## Improvement frame design



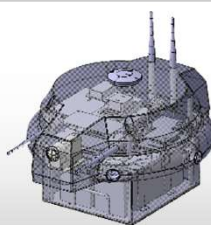
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# 3.

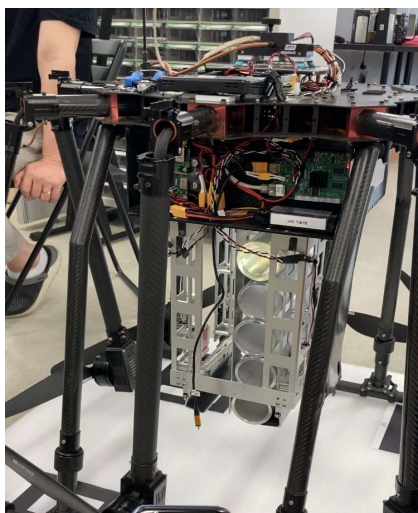
## Product Line-up

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### Fire-fighting Drone (ND-840Z)



Fire Extinguishing Ball Mounted



Fire Extinguishing Liquid Mounted

## IV. Fire-fighting

Item	Category	Specification
Summary	Model Number	ND-840Z
	Purpose	Fire suppression (Fire extinguishing ball/Fire extinguishing liquid drop)
Spec	Size	1605 mm / 2895 mm, 3905 mm, 930 mm
	Weight	73.54 kg
	MTOW	93.9 kg (Self-weight 73.54 kg, EO/IR 1.35 kg, payload 19 kg)
	Mission Equipment Weight	Fire extinguishing ball 1.2 kg : 84.9 kg / 4.0 kg : 93.9 kg Fire extinguishing liquid 600 ml : 92.1 kg
	Power	Lithium polymer battery (30,000mAh * 8 EA)
	Flight Speed	50 km/h (Max speed 70 km/h)
	Operating Time	No Load : 35 min Fire extinguishing ball 1.2 kg : 30 min / 4.0 kg : 29 min Fire extinguishing liquid : 29 min
Operation al Limit	Wind Speed	12 m/s
	Temperature	-20 ~ +60 °C
Other	GPS Accuracy	RTK (2.5cm/10km)
	Flight Control System	FC/LTE/Mission All-in-One Module
	Telecommunication	LTE/Telemetry
	Elevation Measurement	Elevation measurement LIDAR installation
	Concurrent Operation	10 EA (LTE)
	Safety Function	Fail Safe/Homecoming(RTH)



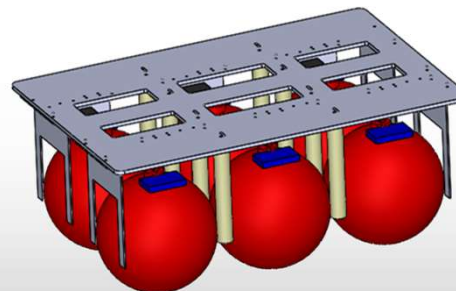
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## Fire Extinguishing Ball

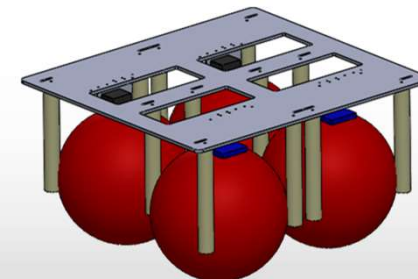


Item	Specification
Ingredient	• 90% ABC Dry Powder(Nontoxic)
Weight	• 1.2 kg / 4 kg
Size	• 150 mm(1.2 kg) / 213 mm (4 kg)
Extinguishing range	• 3 m <sup>2</sup> (1.2 kg) / 9 m <sup>2</sup> (4 kg)
Operating Temperature	• -40~+90°C

1.2Kg X 6EA Mounted



4.0Kg X 4EA Mounted



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## Fire Extinguishing Ball Drop Test



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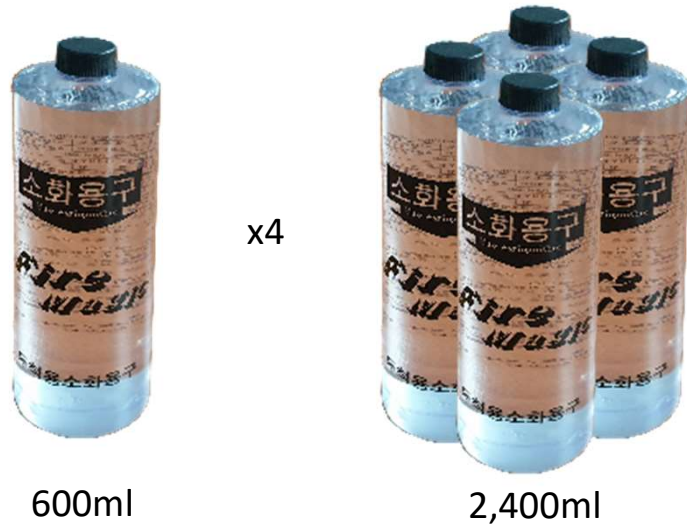
## Fire Extinguishing Ball Drop Test Flight





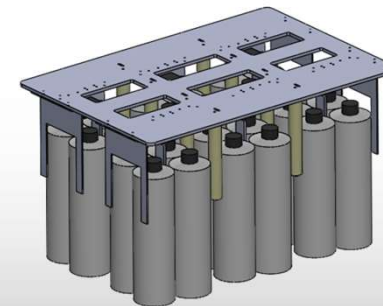
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## Fire Extinguishing Liquid



Item	Specification
Ingredient	• urea, salt ions, etc
Capacity	• 600 ml
Size	• 225 * 62 mm
Operating Temperature	• -10~+45°C

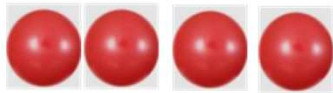
## 600ml X 24EA Mounted



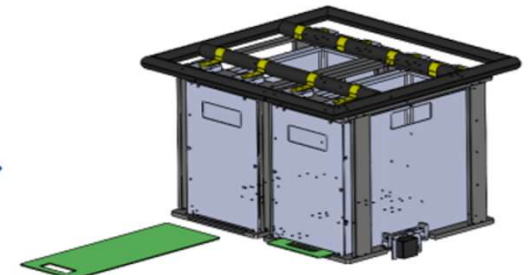
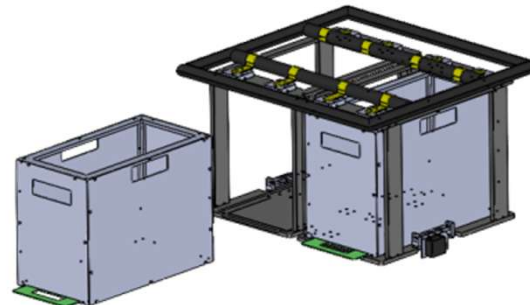
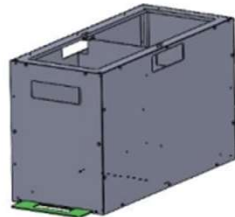
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## Fire Extinguishing Liquid Drop Device

- During the development and testing of instrument devices that improve the existing bottle-type digestive fluid in balloon form and can be dispersed in a large area when the digestive fluid is dropped



풍선형 소화액 투입

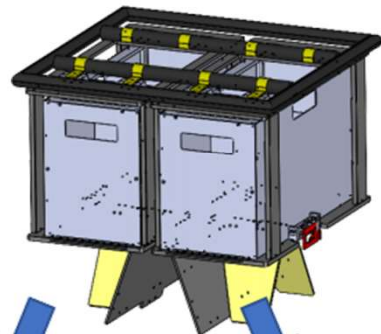


소화액 적재함

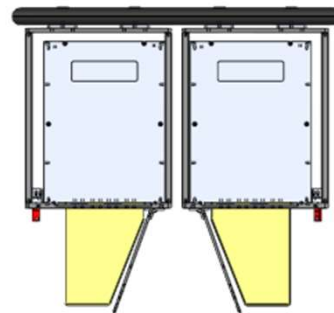
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드론에 장착

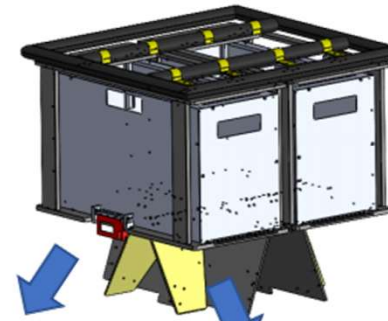
하판 제거



적재함 각도



4방향 분산 투하



내부 각도





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## Fire Extinguishing Liquid Drop Test Flight



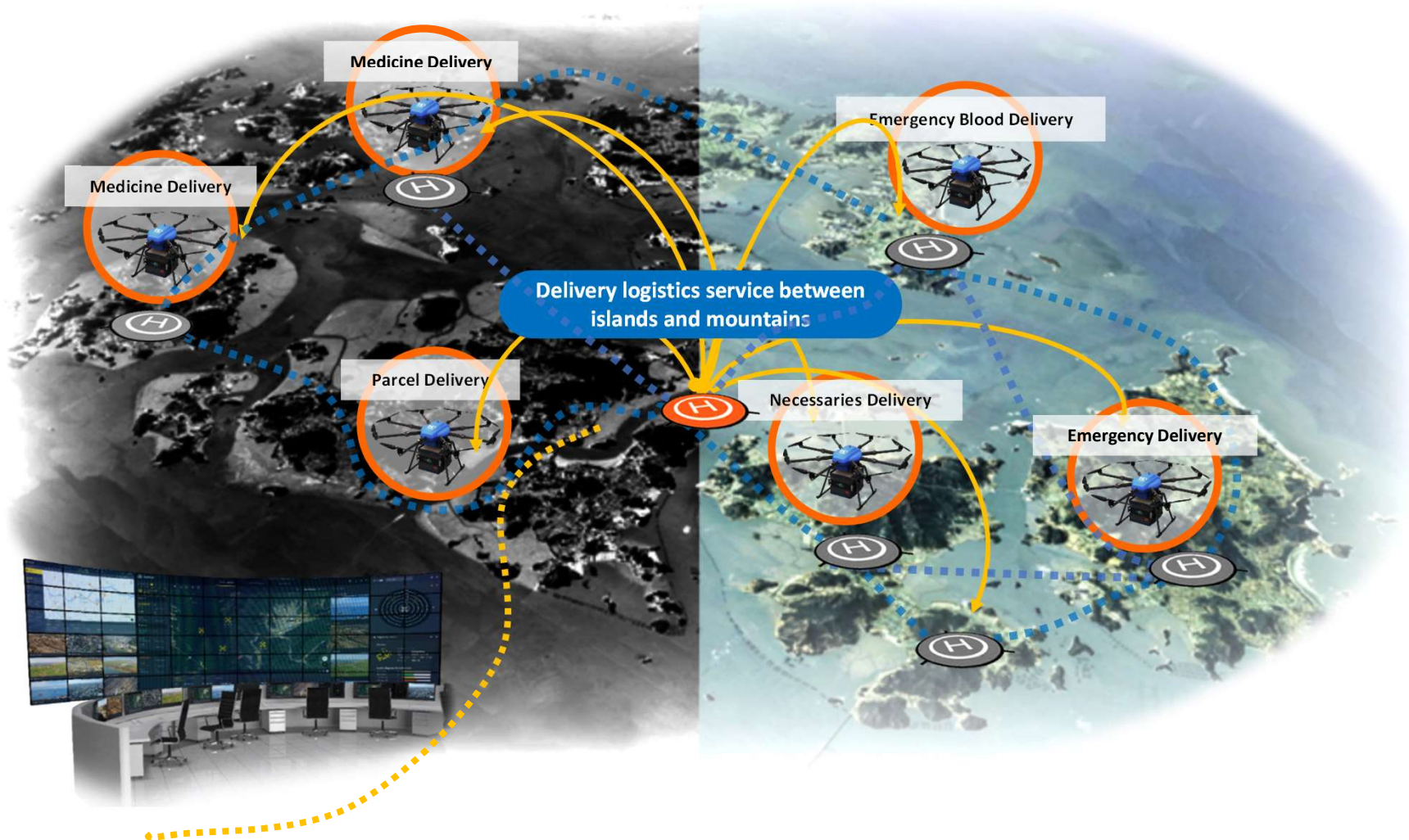
# V. Logistics, Pest Control

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1. Logistics Drone Operating System
2. Pest Control Drone Operating System
3. Product Line-up

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## Address-based multi-point drone logistics operating system





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## Pest Control Drone

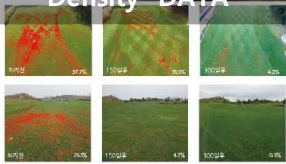
Providing a new control drone operation system for reducing operating costs and labor efficiency of golf courses

### Lawn Pollution Diagnostic Drone

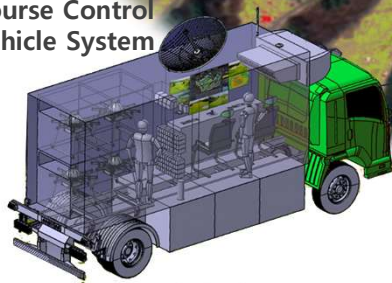


A diagnosis plan for lawn contamination by spectroscopy (NDVI) of grass growing condition

#### Poa annua Density DATA



### Smart Golf Course Control Operating Vehicle System



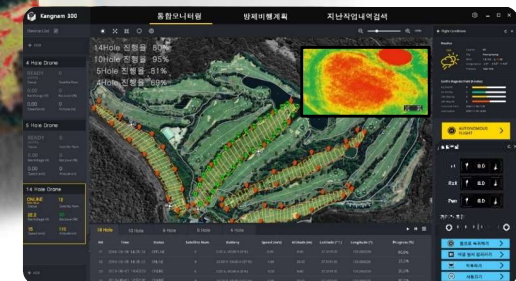
4 Multi-Drones,  
1 Course Monitoring Drone  
Medicinal Herbs 800L,  
Equipped with state-of-the-art  
integrated control monitoring system

### Golf Course Multi Pest Control Drone

Reduce work efficiency and pharmaceutical costs by preventing duplicate work through multi-pest control drones



Establishment of a database for the evaluation and maintenance and improvement management of control drugs for each course



### Golf Course Smart Control Drone GCS

## Development of Smart Control Drone GCS for Golf Course

코스별 잔디  
오염도 진단 및  
실시간 모니터링

- 스펙트럼 분석(NDVI)기반  
새포아풀 밀도 조사
- 코스별 실시간모니터링  
(주야간 및 500m 식별가능)

코스별 방제 약효평가와  
유지·개선관리를 위한  
데이터베이스 구축

기상/강수량데이터, 병충해목록,  
약재에 따른 새포아풀 밀도  
데이터를 데이터베이스화하여  
방제 프로그램 최적화 적용



효율적인 방제작업을  
위한 멀티비행 계획

- 면적당 분사량 설정
- 자동 비행 경로 수립
- 멀티드론의 코스별 방제비행  
계획 등록(최대 10대가능)
- 코스별 방제작업 진행률 표시



## Logistics Drone (ND-820)



Item	Specification
Model Number	ND-820
Type	Multicopter (OCTO)
Purpose	Delivery
Operating Time	18min(Full load) / 30 min(No load)
MTOW	64 kg
Payload	10~20 kg
GPS Accuracy	RTK (2.5cm/10km)
Flight control system	<ul style="list-style-type: none"> <li>LTE/Telemetric , RF(900Mhz, 5.8Ghz)</li> <li>Equipped with encryption module</li> </ul>
Telecommunication	LTE/Telemetric, RF(900Mhz, 5.8Ghz)
Elevation Measurement	Elevation measurement LIDAR installation
Concurrent Operation	10 EA (LTE)
GCS	<ul style="list-style-type: none"> <li>Real-time ground control</li> <li>Elevated Elevation/Curved Automatic Flight</li> <li>Monitoring Targeting</li> <li>Store and simulate delivery information (video, flight path)</li> </ul>
Safety Function	Fail Safe/Homecoming(RTH)

## Logistics Drone (ND-840)



Item	Specification
Model Number	ND-840
Type	Multicopter (OCTO)
Purpose	Delivery
Operating Time	25min(Full load) / 30 min(No load)
MTOW	85 kg
Payload	10~20 kg
GPS Accuracy	RTK (2.5cm/10km)
Flight control system	<ul style="list-style-type: none"> <li>LTE/Telemetric , RF(900Mhz, 5.8Ghz)</li> <li>Equipped with encryption module</li> </ul>
Telecommunication	LTE/Telemetric, RF(900Mhz, 5.8Ghz)
Elevation Measurement	Elevation measurement LIDAR installation
Concurrent Operation	10 EA (LTE)
GCS	<ul style="list-style-type: none"> <li>Real-time ground control</li> <li>Elevated Elevation/Curved Automatic Flight</li> <li>Monitoring Targeting</li> <li>Store and simulate delivery information (video, flight path)</li> </ul>
Safety Function	Fail Safe/Homecoming(RTH)

## Logistics Drone (ND-840Z)



Item	Category	Specification
Summary	Model Number	ND-840Z
	Purpose	Delivery
Spec	Size	1605 mm / 2895 mm, 3905 mm, 930 mm
	Weight	73.54 kg
	MTOW	93.9 kg
	Power	Lithium polymer battery (30,000mAh * 8 EA)
	Flight Speed	50 km/h (Max speed 70 km/h)
	Operating Time	No Load : 35 min
Operation al Limit	Wind Speed	12 m/s
	Temperature	-20 ~ +60 °C
Other	GPS Accuracy	RTK (2.5cm/10km)
	Flight Control System	FC/LTE/임무 일체형 모듈
	Telecommunication	LTE/Telemetry
	Elevation Measurement	Elevation measurement LIDAR installation
	Concurrent Operation	10 EA (LTE)
	Safety Function	Fail Safe/Homecoming(RTH)

# VI. References

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## 1. References Status

Project	Business Period	User
Drone forest fire monitoring and fire extinguishing system	2020.12.17~2021.03.09	Anyang City Hall, Korea
DNA+Drone Technology Development Project	2020.04.23~2021.12.31	Korea Research Foundation
Proof of establishment and commercialization of drone logistics service platform between islands with 98% success rate of delivery mission	2019.04.01~2022.12.31	Korea Institute of Industrial Technology Evaluation and Management
Implementation and Demonstration of Interworking System between Address-Based Delivery Management System and Delivery Drones	2018.11.01~2018.12.18	Korea Electronics and Telecommunications Research Institute Postal Technology Center
Pilot operation of delivery of mail logistics drones in mountainous areas	2018.08.01~2018.08.08	Postal Service Headquarters
Construction of Drone Transportation System for Marine Products	2018.05.01~2019.03.31	Korea Robot Industry Promotion Agency
Development of a 50g class collision prevention and high-level detection superpower impulse radar sensor for drone swarm and auto-landing	2018.06.21~2021.12.31	Civil and Military Cooperation Agency
2017 Policy Support Project for Regional Specialized Content Development - Drone Busking	2017.06.22~2018.07.31	Korea Creative Content Agency
Development of Lightweight, High-Efficiency All-in-One Electric Drive Module for Multicopter	2017.04.01~2019.12.31	Korea Institute of Industrial Technology Evaluation and Management
Drone and Special Mission Equipment Project	2019.10.10~2019.12.08	Busan headquarters customs office
Manufacture/Procurement of Photographic Drone	2019.08.02~2019.10.30	5067th Army Unit



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