

Fixed Wing / Rotary Wing / VTOL drones - R&D / Manufacturer
Drone Mapping Service Provider for GIS (Geographic Information System)

HANCOM
AWESOME TECH



Company

Coperate Name

Hancom Awesome Tech Inc.

Date of Establishment

February 9, 2018

CEO

SANG-YUN, HWANG

Type of Business

Fixed Wing / Rotary Wing / VTOL drones - R&D / Manufacturer

Certification

- Venture Certification
- Corporate Research Institute

#A-404, 17, Techno 4-ro, Yuseong-gu, Daejeon
34013, Republic of Korea



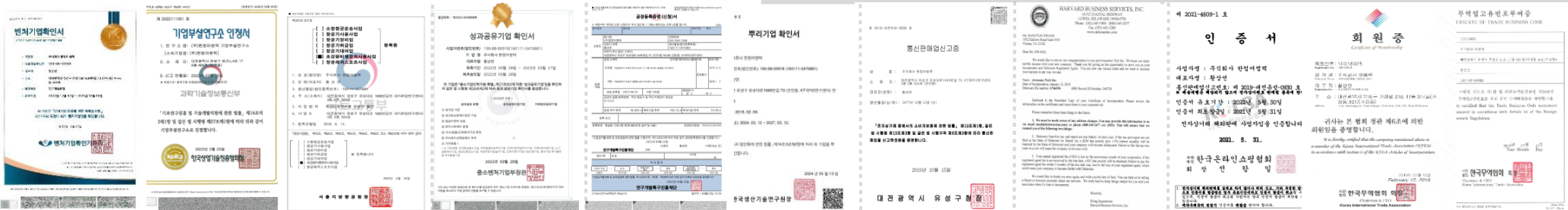
“Drone (Fixed Wing/Rotary Wing/VTOL) R&D and Mapping Service Provider for GIS”

Major Business Area

- 01 Manufacturing drones (Fixed Wing / Rotary Wing / VTOL)
- 02 Research and development of drone-related S/W and H/W
- 03 Drone spatial information (GIS 2D/3D mapping) professional service
- 04 Drone training service

Main Business History

- [2017] **ETRI Approval of technology start-up**
- [2018] Established Awesometech Co., Ltd.
Office Registered as "Ultralight Airplane Utilization Project"
- [2019] Selected as "Youth Commercial Academy Additional Course"
Establishment of an affiliated research institute
Spatial Information Utilization Idea Contest LXceo awards
- [2020] Registered as research institute company No. 897
- [2021] **Completed Hancom Group investment attraction**
KIAST 2021 Drone Demonstration City Construction Project
- [2022] KIAST 2022 Drone Demonstration City Construction Project
NIA 2022 Spatial Convergence Big Data Platform Contest Project
- [2023] KASM Registration of the "Geospatial Information Project"
Selected as "Daejeon Defense Venture Center Business agreement"



Research and Development Capabilities

Performance Sharing

Manufacturing Capabilities

Domestic Sales

Overseas Expansion

Overseas Sales



황상연(Hwang Sang Yun)
CEO / Engineering Director

Before) An outpatient professor of the Department of UAVs at Hanseo Univ.

Before) ETRI a Senior (Visiting) Researcher

Before) I.M.C GmbH (Germany) Project Manager

Possessing drone automatic navigation technology

Have control software development technology

Super-lightweight flight controller (1st class), information processing

Eligible Angel Investors

- 2021.03** **Hancom Awesome Tech Inc. CEO**

- 2018.02 Korea Cooperation Awesome Tech Inc. CEO
- 2018.01 USA Cooperation Awesome Tech Inc. CEO

- 2017.12 Selection KIC Washington "Jump Accelerator Track 4"
- 2017.11 Selection KIC Washington "Jump Accelerator Track 3"

- 2017.10** **ETRI approves technology start-up**

- 2017.05 Work in ETRI Technology Start-up Office /
Development and verification of start-up items

- 2014.09 Judge in Drone Division of Science and Technology Creation
Competition in Korea

- 2014.03 Starkrobotics Inc. Technical Director
(Development of Training/Industrial Drones and Platforms)

- 2013.06 Hanbaek Electronics Inc. Marketing Team Leader
(Drone Business Department)

- 2011.05 I.M.C GmbH (Germany) PM / Development of satellite tracking
antennas for vehicles and ships
-Possession of satellite tracking antenna posture control technology
(working for domestic, US, and German companies)

Management support, Marketing, Sales



HR/GIS

KIM HYUNJI
Staff

Hanbat Univ. BA



Marketing

CHOI HYUNJI
Staff

Media Art Univ AA



Designer

JEON HYUNWOO
Staff

Media Art Univ AA

Corporate Research Institute



UAV R&D Manager

CHOI WONMI
Chief Researcher

Pilot of the super lightweight flying device (Type 1)
Super Lightweight Flight Device Map Operator
Eligible Angel Investors



Electronics Engineer

M.B Kishore
Senior Researcher

Chungnam Univ Ph.D



Mechanic Engineer

LEE GEONHEE
Researcher

Hanbat Univ. MS



Drone Operator

SEONG JAEHYUN
Researcher

Keimyung Univ. BS

Importing and selling drones

- Parrot SAS (French drone manufacturer)
Official sources of income for industrial and military drones

Drone Spatial Information Project

- Drone 2D/3D mapping(Orthomosaic)
- Agricultural forecasting(NDVI)

Development and manufacturing of drones [for special purposes]

- Manufacture of fixed / rotors / vertical takeoff and landing (VTOL) drones
- UAV, URV Navigation Control HW/SW Development
- Automatic flight paragliders / paragliders for drones
- Battery Smart Management Module for Drone (Battery Doctor)

Training Business [Drone Mapping]

- Special Lecture on Drone Software and Hardware
- University : Korea Univ., Dongguk Univ., Chungnam Univ., Hannam Univ.,
Soonchunhyang Univ., Incheon Univ., Hongik Univ., etc
- High school : Daejeon Youngjae, Busan Youngjae, Dong-A Meister, etc
- ETRI, Start-up Workshop, National Science Museum
- Drones automatic navigation control and operation technology

[Patent Registration (8)]

- Unmanned flight system capable of autonomous flight (Korea/Europe)
- Multicopter Drone (Chungnam Univ. technology transfer)
- manned paraglider device with safe flight mode
- Control signal generator for obstacle avoidance of unmanned aerial vehicles
- Object information provision system and object information provision device
- And object information provision method
- Lithium battery management device using storage voltage device for lithium battery
- 3D spatial information database transaction system

[Trademark Application (2)]

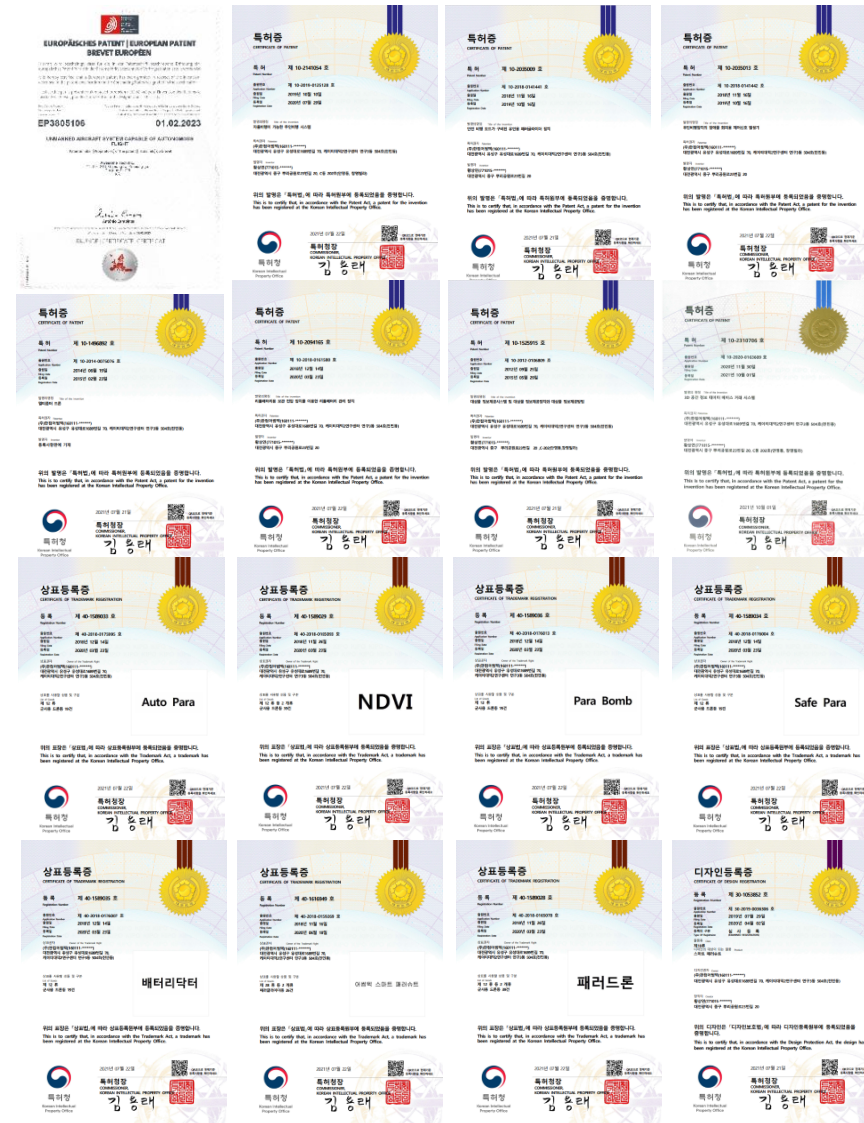
- Tech Blender Awesome Porter

[Trademark Registration (7)]

- Para Bomb Auto Para Safe Para Para Drone
- NDVI Battery Doctor AwesomeTech Smart Parachute

[Design Registration (1)] "Smart Parachute" Design

[Patent Application (1)] an ultra-light fixed-wing drone

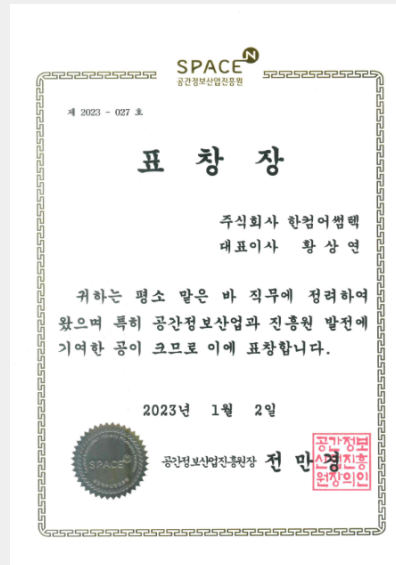




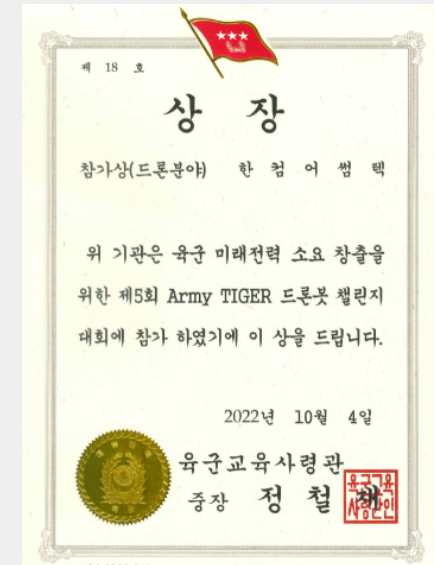
***internal partnership**
KICT Family Enterprise
Specification



***Award**
Start-up Idea Challenge by GIS



***Award**
Commendation certificate for
the Director of the Korea Space
Information Industry Promotion Agency



***Award**
Dronebot Challenge
(Far-distance Reconnaissance)

<https://www.youtube.com/watch?v=BB1FQsqdkhk>

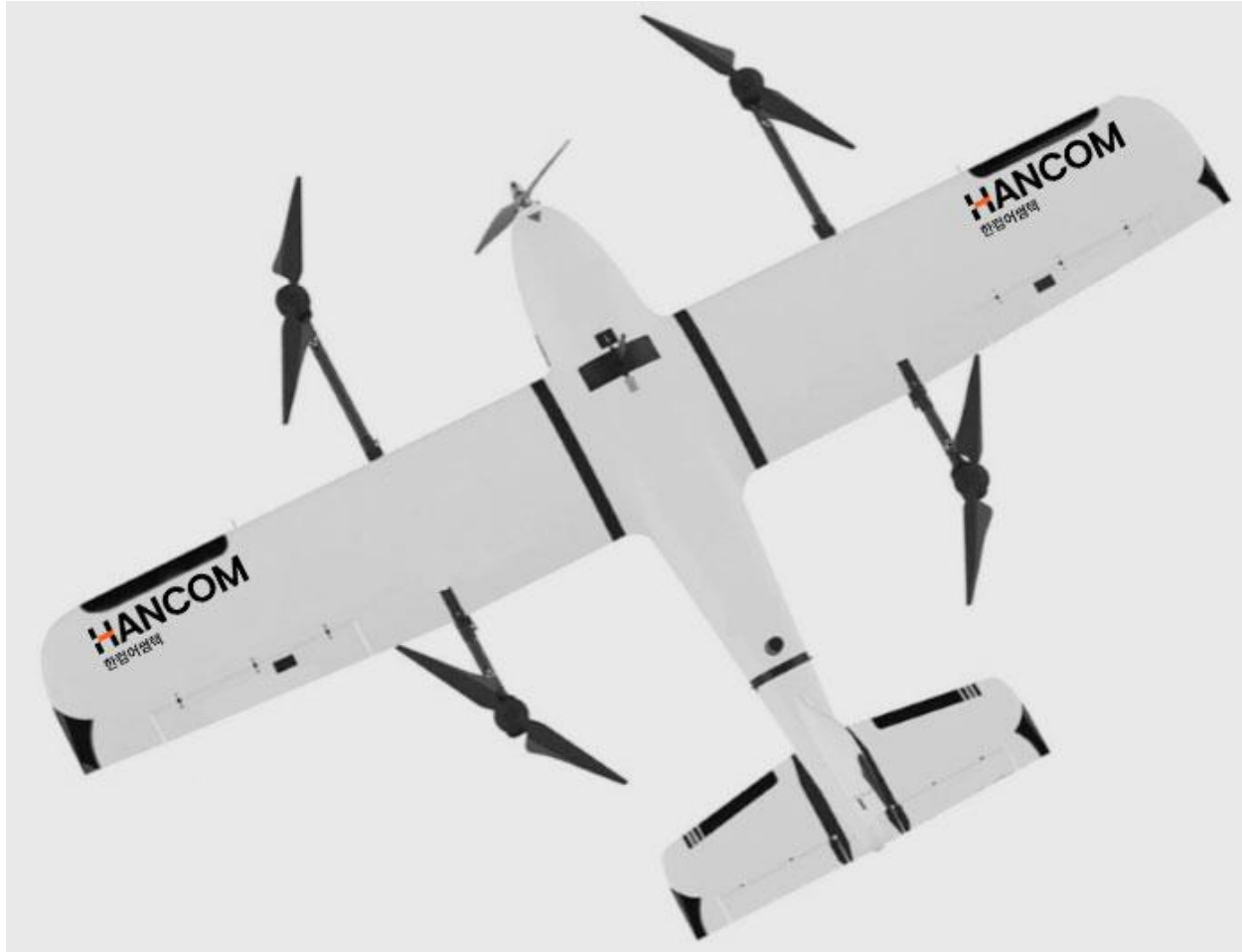


VTOL Drone

(Auto mission + Terrain tracking flight + LTE + Ultra-light long flight + Optical/Thermal camera)

*What is a Terrain tracking flight?

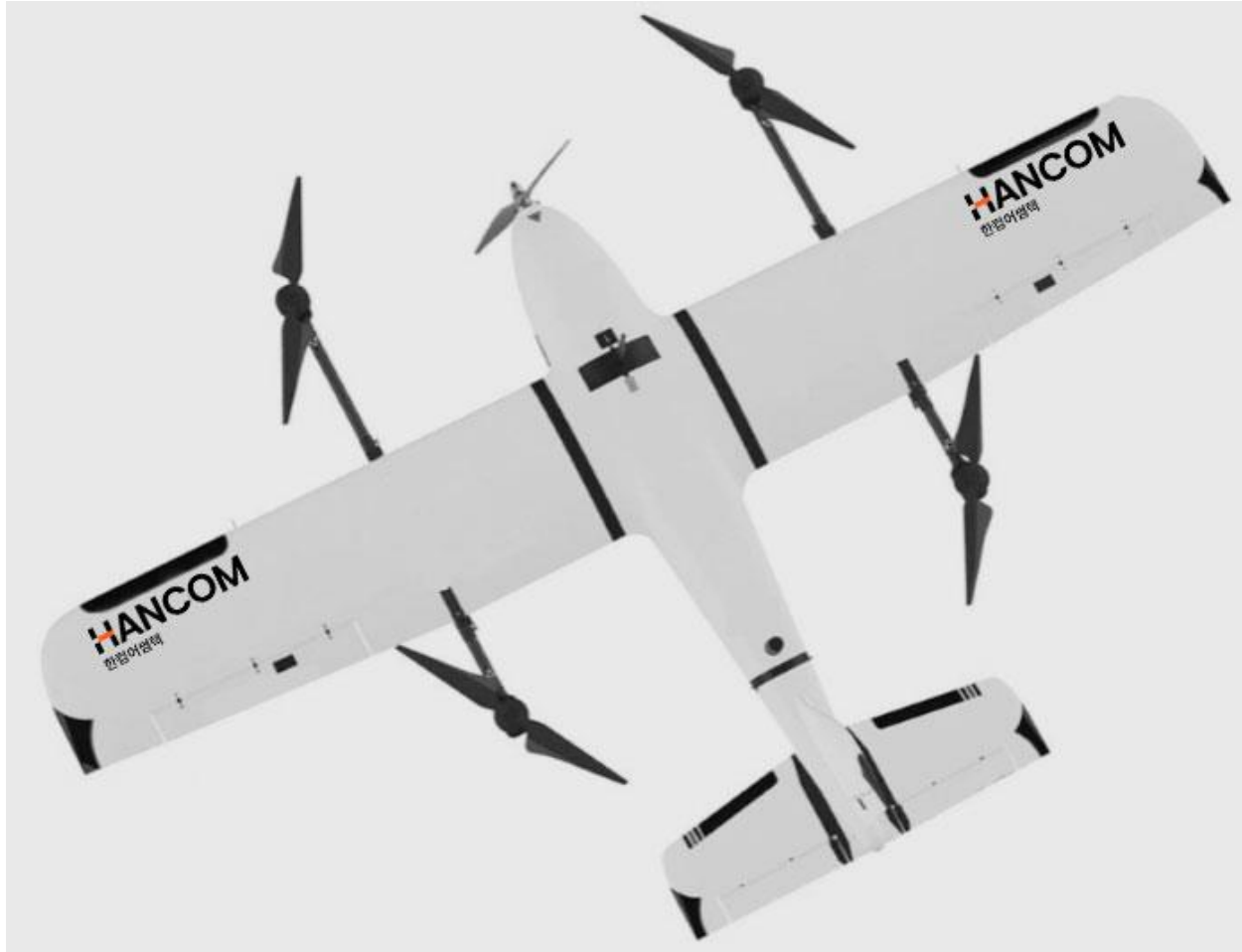
Flying along the curve of the terrain by maintaining a constant altitude from the terrain



Product Specification	
Size	2,100 X 1,200 X 160 mm
Horizontal Speed	15 ~ 22 m/s
Vertical Speed	10 m/s
Flight Time	120 min
Weight	6.5 kg
Load Weight	1.0 kg
Take Off Weight	Maximum 7.5kg
Distance of Communication	Unlimited(LTE Network)
Maximum Altitude	3,000 m
Temperature Range	-10 ~ 40 °C
Max Wind Resistance	10 m/s
Optical Equipment	optical, thermal imaging 10x zoom
Price	35,000 USD
URL	https://youtu.be/BBIFQsqdkhk

*What is a Terrain tracking flight?

Flying along the curve of the terrain by maintaining a constant altitude from the terrain



Product Specification			
Size	2,100 X 1,200 X 160 mm		
Horizontal Speed	15 ~ 22 m/s		
Vertical Speed	10 m/s		
Flight Time	120 min		
Weight	6.5 kg		
Load Weight	1.0 kg		
Take Off Weight	Maximum 7.5kg		
Distance of Communication	Unlimited(LTE Network)		
Maximum Altitude	3,000 m		
Temperature Range	-10 ~ 40 °C		
Max Wind Resistance	10 m/s		
Optical Equipment	Non-landing module	loading/delivery	hoist
Price	30,000 USD		
URL	https://youtu.be/BB1FQsqdkhk		

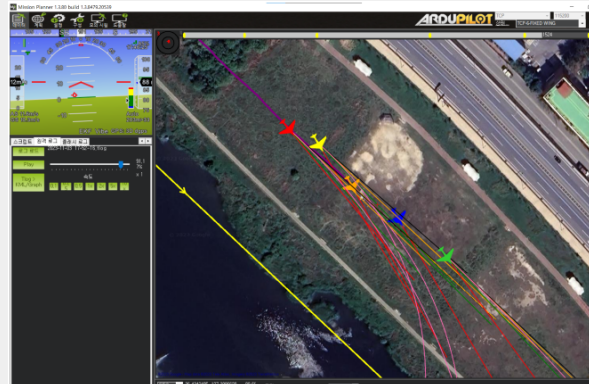
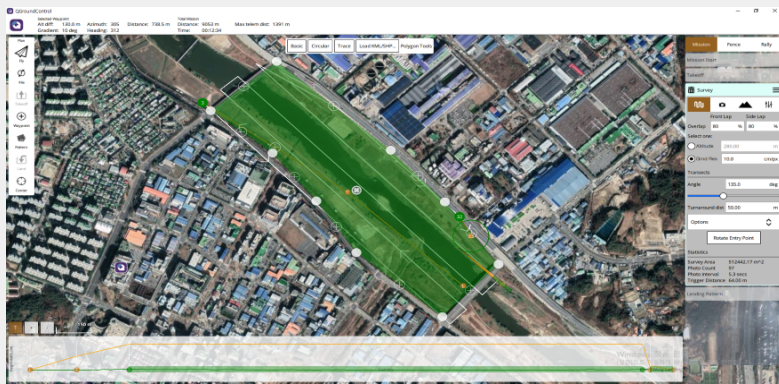


Fixed Wing Drone (Tech Blender F/W)

(Auto mission + Terrain tracking flight + LTE + Ultra-light long flight + Optical camera + Swarm Flight)

*What is a Terrain tracking flight?

Flying along the curve of the terrain by maintaining a constant altitude from the terrain



Product Specification

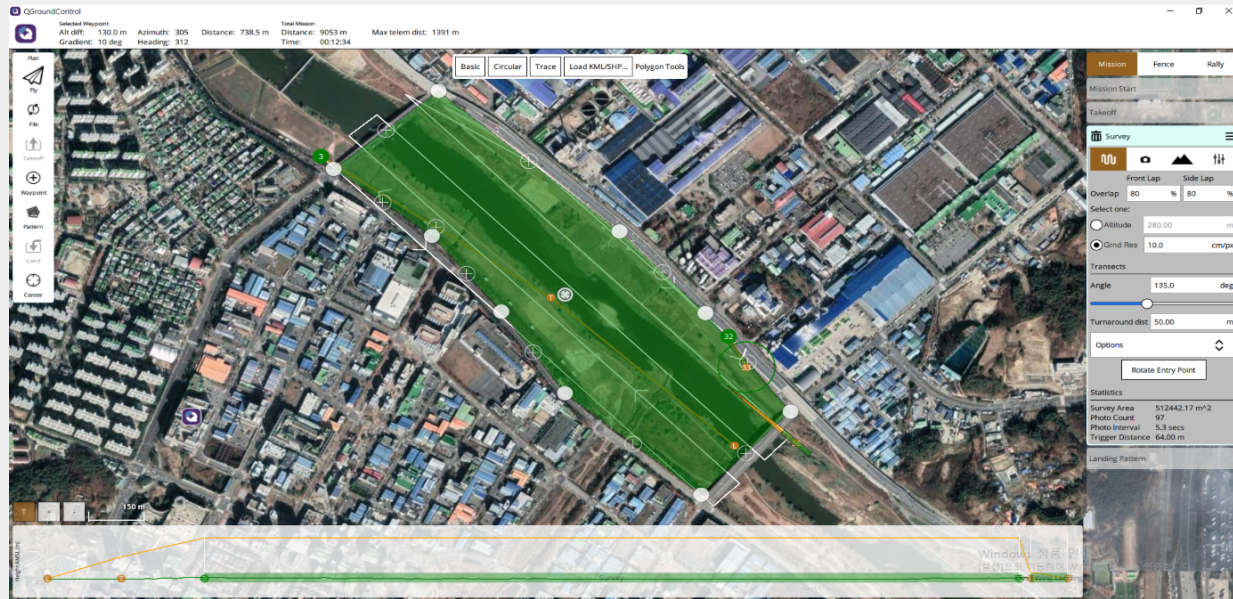
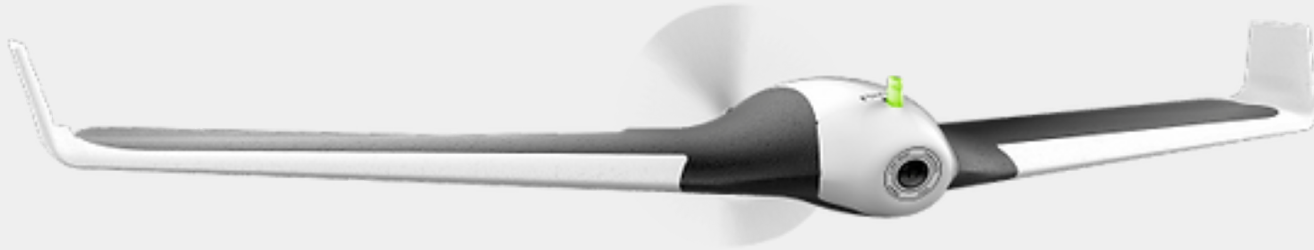
Size	1,165 X 720 X 75 mm
Horizontal Speed	12 ~ 22 m/s
Cruise Speed	14 m/s
Flight Time	120 min
Weight	1,350 g
Load Weight	250 g
Take Off Weight	Maximum 1,600 g
Distance of Communication	Unlimited(4G Network)
Maximum Altitude	1,000 m
Temperature Range	-10 ~ 40 °C
Max Wind Resistance	15 m/s
Optical Equipment	Optical, 14MP / Sony 15.3MP
Price	15,000 USD
URL	-

Fixed Wing Drone

(Auto mission + Terrain tracking flight + LTE + Ultra-light long flight + Optical camera + Swarm Flight)

*What is a Terrain tracking flight?

Flying along the curve of the terrain by maintaining a constant altitude from the terrain



Product Specification

Size	1,150 X 580 X 120 mm
Horizontal Speed	12 ~ 22 m/s
Cruise Speed	12 m/s
Flight Time	120 min
Weight	780 g
Load Weight	160 g
Take Off Weight	Maximum 940 g
Distance of Communication	Unlimited(4G Network)
Maximum Altitude	1,000 m
Temperature Range	-10 ~ 40 °C
Max Wind Resistance	10 m/s
Optical Equipment	Optical, 14MP / Sony 15.3MP
Price	10,000 USD
URL	-

Rotary Wing Drone

(auto mission + optical, thermal imaging 32x zoom + a mid-distance flight)



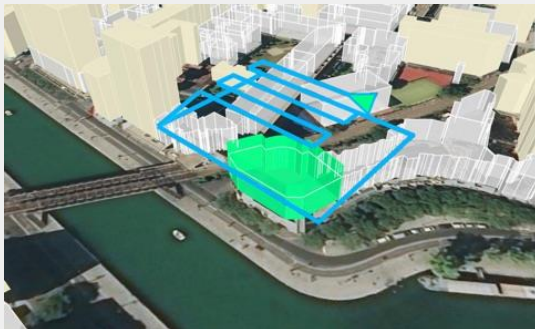
Product Specification

Size	282 X 373 X 84 mm
Horizontal Speed	15 m/s
Vertical Speed	4 m/s
Flight Time	32 min
Weight	496 g
Load Weight	100 g
Take Off Weight	Maximum 644 g
Distance of Communication	5km
Maximum Altitude	5,000 m
Temperature Range	-35 ~ 49 °C
Max Wind Resistance	15 m/s
Optical Equipment	Optical, Thermal imaging 32x zoom, 1/2.4inch 21MP
Price	9,999 USD
URL	https://youtu.be/BBIFQsqdkhk

Rotary Wing Drone
(auto mission + LTE + ultra-light long flight)



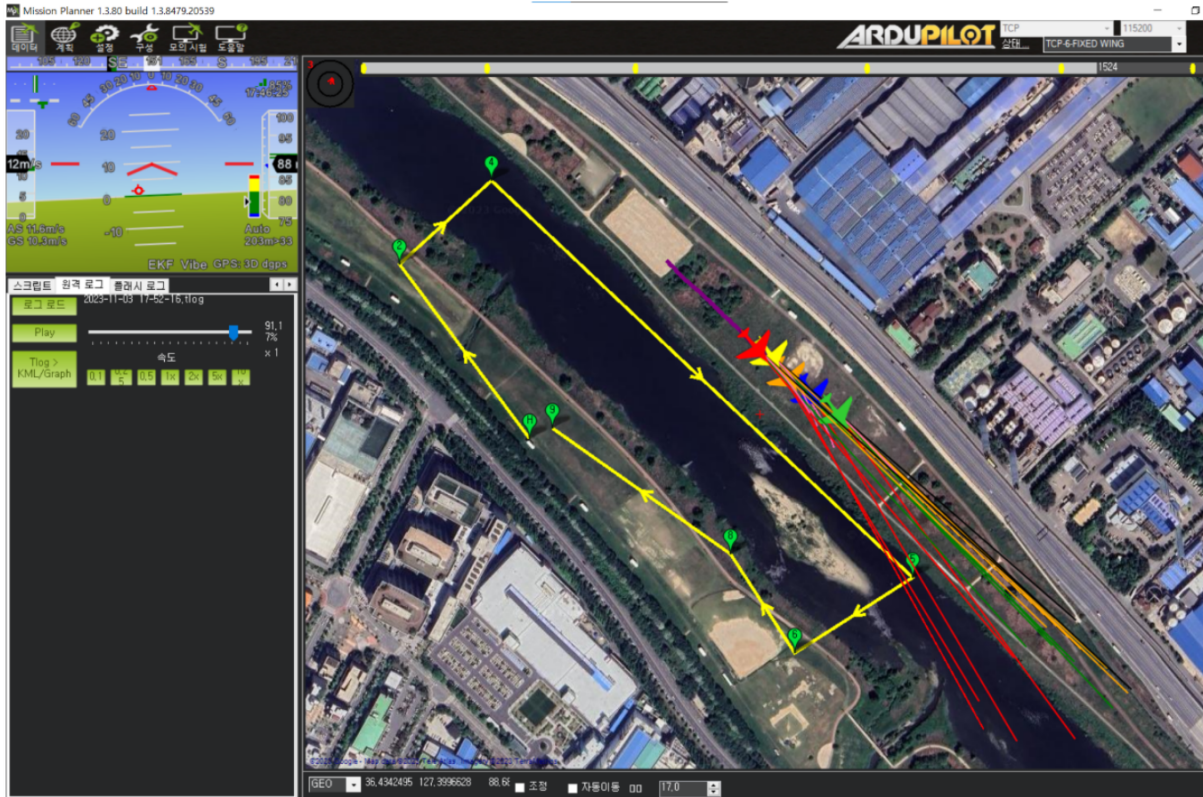
ANAFI Ai
The 4G robotic UAV



Product Specification

Size	320 X 440 X 118 mm
Horizontal Speed	16 m/s
Vertical Speed	4 m/s
Flight Time	32 min
Weight	898 g
Load Weight	100 g
Take Off Weight	Maximum 898g
Distance of Communication	Unlimited(LTE Network)
Maximum Altitude	5,000 m
Temperature Range	-10 ~ 40 °C
Max Wind Resistance	14 m/s
Optical Equipment	Optical 6x zoom, 1/2inch, 48MP
Price	6,000 USD
URL	https://youtu.be/lwKMYfpqKwQ

Swarm Flight Missions



Thank you