# HANCOM AWESOME TECH

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





# HANCOM AWESOME TECH

Hancom AwesomeTech is a company that specializes in drone systems and Use the service to supply it to customers and through it After the company grows, we hold an IPO (Initial Public Offering). Our goal is to grow into a company that can do this.



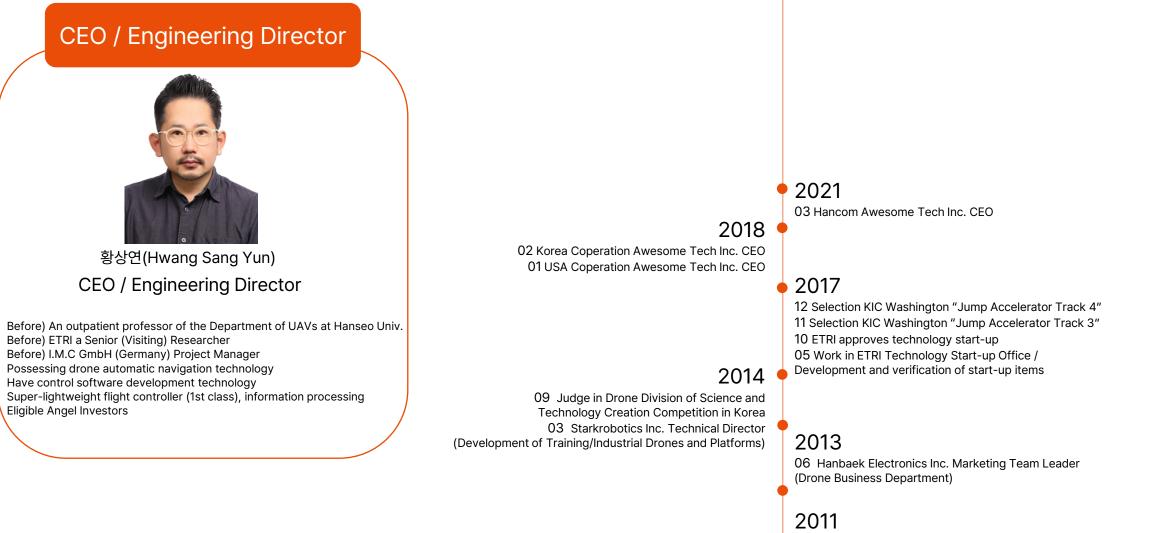
Certification

Venture Certification Corporate Research Institute Company specializing in drone manufacturing and spatial information services.



#### Main Business Areas Main business history Drone (fixed wing/rotary wing/vertical takeoff and landing) manufacturing Registered as "spatial information business" at Korea Spatial Information Industry [2023] **Promotion Association** Selected as a contract company for Daejeon Defense Venture Center Drone-related S/W, H/W Selected as "2022 Drone Demonstration City Construction Project" by Aviation Safety [2022] manufacturing capabilities Technology Institute Drone spatial information (GIS 2D/3D mapping) professional service Participated in the Korea Intelligence Information Society Promotion Agency's "Spatial Information Big Data Platform and Center Construction Project" drone training service Incorporated into Hancom Group affiliate, changed company name (Awesome Tech Co., [2021] HANCOM Ltd. $\rightarrow$ Hancom Awesome Tech Co., Ltd.) 하뉨어썸텍 Manufacturing Performance Graduated from Ministry of Science and Technology Research Institute Research and development capabilities Selected as "2021 Drone Demonstration City Construction Project" by Korea Aviation Capabilities Sharing Safety Technology Institute 공장동**목중영**(신청)/ [] 소험함공운송사업 ] 항공기사용사업 ] 항공기사용사업 ] 항공기적관업 ] 항공기대어업 ] 호공기대어업 ] 초경당비생장치사용( 항공체위스포츠사업 벤처기업확인서 기업부설연구소 인정서 성과공유기업 확인서 뿌리기업 확인서 Registered as a research institute company by the Ministry of Science and Technology [2020] 기 법 명 주시회가 한전가전의 덕료자원 확당연 용료가단 2022년 07월 28일 최초용안철 2022년 07월 28일 and designated as a family company by the Korea Institute of Civil Engineering and 2. 소 제 지: 명종 . 8/3 (1998) 2022 02 02 -Building Technology 과학기술정보통신부 대전관에서 유신 286.58 2048 (유위구지초 및 기술개발지원에 관한 민준, 제1485 대한관역시 공신 28 58 548 10/11/12/2018 02.1 2세1양 및 같은 별 사행명 제27표제1양에 따란 뒤와 같이 [2019] Technology assurance and bench company certification, selected as the 8th Youth Entrepreneurship Academy by the Ministry of SMEs and Startups 한국산업기울전흥혐회명 2022년 03월 28일 Establishment of a corporate research center, winning the LX President Award at the 중소변처기업부장관 Spatial Information Utilization Idea Contest 한국생산기술연구원장 Overseas Awesome Tech Inc. Establishment of a US corporation, Ministry of Land, Infrastructure [2018] **Domestic sales Overseas sales** expansion and Transport "Ultra-light aircraft use project" 0 # 2021-4609-1 # 무역업고유번호부여증 Approved for technology start-up by Electronics and Telecommunications Research [2017] 인 증 회 원 증 Institute of Korea 통신판매업신고증 사업자명 : 주식회사 한점어생력 和当世寺:1001692 의 사 위 : 수식의사 아름북 대표자명 : 황상영 A R R : 02004/847.64 대 표 지 : 음성연 통신판매업신고번호: 제 2019-대전유성-0930 호 # 비수대법은 비난되지 않으며 문자산거리로 관리적 중국이 방법 GER(53): 800 AND REPORTED TO THE PARTY OF 인증서 유효기간 : 2022년 5월 30일 인증서 최초합급일 : 2021년 5월 31일 귀사는 본 협회 정관 제6조에 의한 전자상거태 해외판매 사업자임을 인증합니다 「전자상기례 올해서의 소비자보호해 관한 일 5 시행된 제13조제2한 및 골은 앱 시행규제 2 비지보호에 관한 법률, 제12조제1합, 같 티원임을 중명합니다. No. Nemb Day 23 한국온라인쇼핑협회 회장전 항 일 201014 1088 155 생 한국무역업의 최 14914 44848 642 64 914 68 42, 16 416 64 22 1818 9398 34 8210462 184 924 824 생활한국무역협회 외장는 대전광역시 유성구청장 Flig Deamar Enertheiser Series 성상니다. 제약주제같이 병경이 인증이를 제약할 것이야 합니?

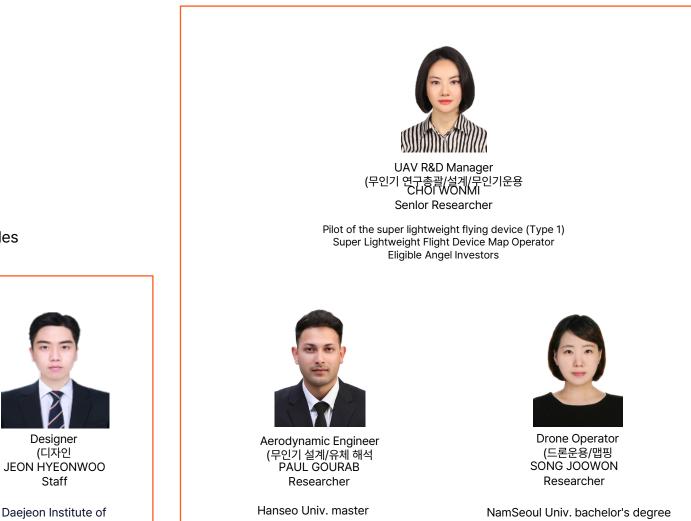




05 I.M.C GmbH (Germany) PM / Development of satellite tracking antennas for vehicles and ships -Possession of satellite tracking antenna posture control technology (working for domestic, US, and German companies)



Corporate research institute



Management support · marketing · sales



HR (인사/재무/경영지원 KIM HYUNJI Staff

Hanbat Univ. bachelor's degree



Marketing (영업/마케팅 CHOI HYUNJI Staff



Designer

(디자인

Staff



#### Drone import and sales

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

#### Development and manufacturingof 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)

#### Drone Spatial Information Project

-Drone 2D/3D mapping(Orthomosaic)

-Agricultural forecasting(NDVI)

# TrainingBusiness [Drone Mapping]

- Drones automatic navigation control and operation technology

- 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



[ 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

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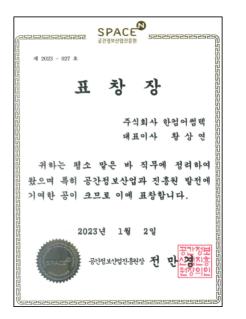


KICT Family Enterprise Specification



Start-up Idea Challenge by GIS

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



Dronebot Challenge (Far-distance Reconnaissance)



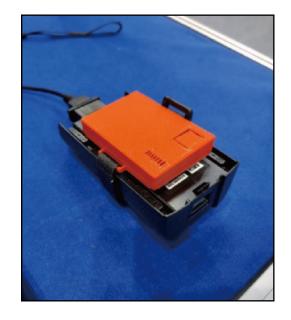




Capable of automatically inducing winnings Drone parachute to prevent fall damage (Entrepreneurship growthtechnology development project)

Daejeon Techno Park

Lithium batteries for defense/civilian drones For fire prevention and long-term use Development of storage voltage management device module



Offensive weapon capable of automatic deployment and drop flight to the target point (Bomb)Para Bomb





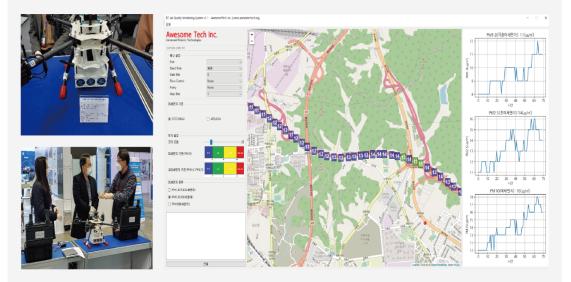
	Product Specification
Size	2100 X 1,200 X 160 mm
Flight Time	120 min
Maximum Altitude	3,000m
Vertical Speed	10m/s
Temperature range	-10 ~ 40 ℃
Distance of Communication	Unlimited (LTE Network)
Horizotal Speed	15 ~ 22 m/s
Verical Speed	10 m/s
Weight	6.5 kg
Load Weight	1.0 kg
Take Off Weight	Maximum 7.5kg
Optical equipment	Optical, thermal imaging 10X zoom
URL	https://www.youtube.com/watch?v=BB1FQsqdkhk



# Analyze S/W

Development of fine dust monitoring and measurement equipment for UAV mounting

#### (미세먼지 PM1.0, PM2.5, PM10 측정 + GPS + Telemetry)



# **Product specifications**

Weight	500g	size(LxWxH)	155X135X50(mm)
operating temperature	-20~+50(°C)	operating humidity	0~90(%)
Fine dust sensor	Plantower PMS3003	Fine dust measurement	PM1.0, PM2.5,PM10
Power Consumption	Maximum 5V1A	usage time	Maximum 4 hour
Charging time	Approximately 2.7 hours (when charging 5V2A)	recharge battery	lithium ion 5,000mAh Rated ion온 5V2A Reted output 5.1V2.1A

## MainFunction

Korea's first real-time fine dust measurement/analysis solution using drones, environmental assessment, industrial site inspection of air pollution sources, tank pipeline leak detection

# Major customers



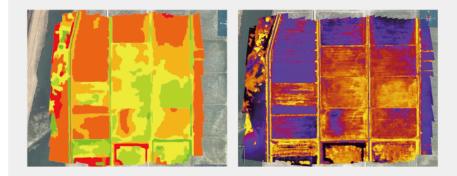


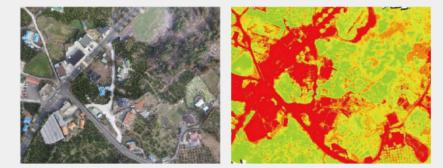


### 태안군 농업기술 센터 순창군 농업기술 센터

#### 1. LTE 기반 장기체공 고정익 드론(한국수자원연구원) (LTE + 장시간 비행(2시간))

2. 농업예찰(다분광카메라 + Pix4D Mapper)







#### 스마트 패러슈트 개발 박차…낙하 지점 파악과 피해 방지도 가능

"낙하산 모듈은 드론 추락 피해 최소화를 위한 자동복귀 기능을 갖췄습니다. GPS를 내장해 독립 적 비행제어가 가능합니다. 추락 위기 시 경보 버저가 울리고, LED로 표시됩니다. 사용자는 추락, 피해 격정 없이 드론을 사용할 수 있을 정도로 똑똑합니다."



황상인 대표의 어범택 주력 제품 설명이다. 현재 개 발 막바지에 있는 스마트 패러슈트는 드론이 추락할 경우, 낙하신을 자동으로 펼쳐 추락을 방지하고, 낙하 지점 파악과 자동복귀를 가능케 한다.

황 대표가 스마트 패러슈트와 같은 드론 애플리케이 션 분야에 도전장을 내민 이유는 고객과 시장의 요구 때문.

기계제어, 자동항법 연구를 지속하던 그는 프랑스 드 론 회사인 패롯과 창업 이전부터 인연을 맺었다. 패 롯 수입원에서 기술적 자문 역할을 요청해 온 것이 토대가 됐다.

89연 여명역 대표 신집-방인구 가까> 활 대표는 "현 드통 시장은 마치 조립용 PC 시장과 같다"면서 "하드웨어 분야는 경쟁이 치열해 승산이 없는 반면 소프트웨어, 애플리케이선이라 합 수 있는 제이 분야는 상대적으로 연구개발이 부족해 가능성이 있다고 봤다"고 설명했다.

> News reporting ("Smart Parachute")



2018 Unmanned Vehicle System Industry Expo



2018 Jinju International Agricultural and Food Expo "High-tech agricultural drone exhibition"



2018 Daejeon Science Festival



Basic Science Research Institute "SLAMD"



#### 전략적 업무제휴(OEM/3rdParty)를 위한 글로벌 시장개척 활동



Parrot China, Hongkong Inc. 법인 대표 및 Korea 영업총괄이사 (프랑스 드론 제조사)

# Parrot

31<sup>st</sup> Dec, 2021.

#### **Reseller Authorization**

#### HANCOM AWESOME TECH INC.

The above enterprise is a reseller of PARROT products in the Republic of Korea, which has the right to resell PARROT drone solutions in the Republic of Korea.

PARROT drone solutions, including Anafi Ai, Anafi USA, Anafi USA Security Edition, Anafi USA GOV and Anafi Thermal sold by the above reseller in the Republic of Korea will have Republic of Korea warranty and after-sales service according to PARROT warranty policy.

This reseller authorization is valid from 1st Jan 2022 to 31st Dec 2022.

For and on behalf of Parrot Asia Pacific Ltd.

Anthony Yip

Regional Sales Manager



# Rotary wing drone (autonomous mission + 30x optical/thermal zoom + mid-range flight)



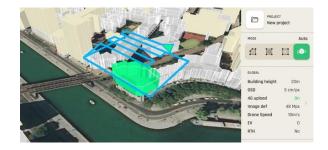
Produ	ct Specification
Size	282 X 373 X 84 mm
Horizotal Speed	15 m/s
Verical Speed	4 m/s
Flight Time	32 min
Weight	496 g
Load Weight	100 g
Take Off Weight	Maximum 644 g
Distance of Communication	5km
Maximum Altitude	5,000 m
Temperature range	-35 ~ 49 °C
Maximum wind speed	15 m/s
Optical equipment	optical,thermal imaging 32x zoom 1/2.4inch 21MP
Price	9,999 USD
UGL	https://youtu.be/BB1FQsqdkhk

Main products



## Major Product Rotary Wing Drone (auto mission + LTE + ultra-lightlong flight)







Produ	ct Specification
Size	320 X 440 X 118 mm
Horizotal Speed	16 m/s
Verical Speed	4 m/s
Flight Time	32 min
Weight	898 g
Load Weight	100 g
Take Off Weight	Maximum 7.5kg
Distance of Communication	Unlimited(LTE Network)
Maximum Altitude	3,000 m
Temperature range	-10 ~ 40 °C
Maximum wind speed	14 m/s
Optical equipment	Optical 6x zoom, 1/2inch, 48MP
Price	6,000 USD
UGL	https://youtu.be/lwKMYfpqKwQ



## Major Product Fixed Wing Drone

(Auto mission + Terrain tracking flight + LTE + Ultra-lightlong 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
Horizotal Speed	12 ~ 22 m/s
Verical 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
Maximum wind speed	10 m/s
Optical equipment	optical, 14MP / optical Sony 15.3MP
Price	10,000 USD
UGL	https://youtu.be/lwKMYfpqKwQ



## Major Product Fixed Wing Drone (Tech Blender F/W)

(Auto mission + Terrain tracking flight + LTE + Ultra-lightlong 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



Produ	ct Specification
Size	1,150 X 580 X 120 mm
Horizotal Speed	12 ~ 22 m/s
Verical Speed	14 m/s
Flight Time	120 min
Weight	1350 g
Load Weight	250 g
Take Off Weight	Maximum 1600 g
Distance of Communication	Unlimited (4G Network)
Maximum Altitude	1,000 m
Temperature range	-10 ~ 40 °C
Maximum wind speed	15 m/s
Optical equipment	optical, 14MP / optical Sony 15.3MP
Price	15,000 USD
UGL	https://youtu.be/lwKMYfpqKwQ



# Swarm Flight Missions



# HANCOM AWESOME TECH