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ARMOUR

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The most complete VTOL series

All-Inclusive VTOL UAV System Solutions

MTOW from 7kg to 230kg

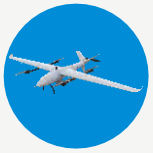
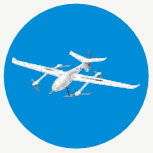
Extreme intelligence

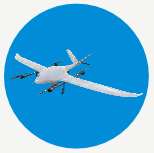
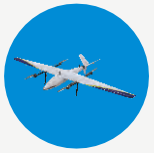
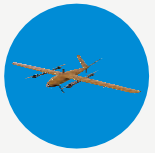
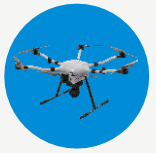
Intelligent security control

Support customization

Smart Drone UAV Product Series



	V800	V500H	V330PLUS	V330MAX	V500E	V380PRO	V330PRO	Z4	CLOUD IIS	Q280	Manned UFO
Endurance	10h	> 10h	4.2h	4h	2.5h	2.8h	3.5h	2h	1h	0.5h	15min
Payload	50kg	20kg	8kg	8kg	15kg	8kg	4kg	1.2kg	10kg	100kg	300kg
Maximum Voyage	1200km	1000km	320km	320km	210km	210km	270km	150km	32km	20km	6km
Power Type	Oil-electric hybrid	Oil-electric hybrid	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric

- Extreme intelligence
- Intelligent security control
- Support customization
- Quick on & off
- Full life cycle management
- One-click operation

Industry application

Emergency rescue

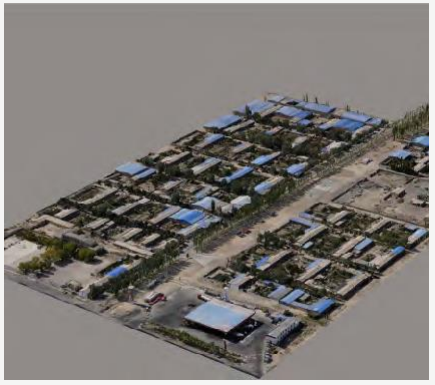
Power line patrol

Offshore patrol

Logistics and transportation

Pipeline patrol

Forest fire prevention



Geographical mapping

Anti-smuggling and anti-drug trafficking

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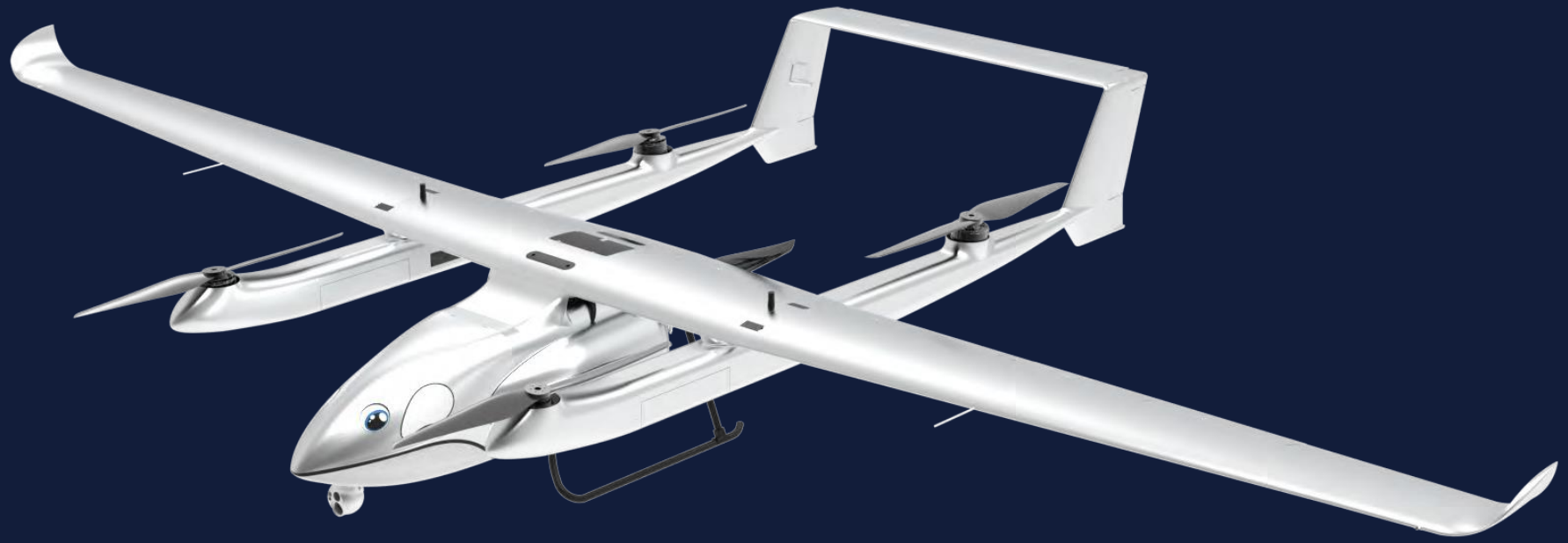

V800

One of the Largest Vertical Takeoff and Landing UAV

1200km	**10h**	**100~150km**	**50kg**
Maximum range	Maximum endurance	Operation radius	Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

V800

- **Break through the technology.** V800 is the first VTOL UAV with **2h of endurance + 50kg of ultra-high payload**.
- **Equipped with 300L of ultra-large mission cabin.** Independent design of mission cabin, enable the volume to 300L and the payload to 50kg.
- **Possess with flexible configuration.** Deployed with visible light camera, infrared thermal imager and laser range finder, to meet various application scenarios.

Break the sites limit

- Vertical take-off and landing, easily controlling the special geographical environment, such as mountains, plains, fields and oceans.

Break the efficiency limit

- 10h super-long endurance+300L super-large space mission cabin to meet more application requirements, such as long- distance logistics and transportation.

Modular agile design

- Modular rapid disassembly and assembly can realize quick operation within 15 min, and can carry customized pods.

Technical Parameter

Overall Size:	8200*3650*1042mm	Operating Temperature:	-20~60℃
Cruise Speed:	100~120km/h	Standard Takeoff Weight:	170kg
Tank Capacity:	50L	Full-load Takeoff Weight:	230kg
Max. Endurance with Full Load:	4.5h@50kg	Max. Payload:	50kg
Max. Endurance with No Load:	10h	Wind Resistance:	For Cruise Mode, Level 6/For VTOL, Level 4

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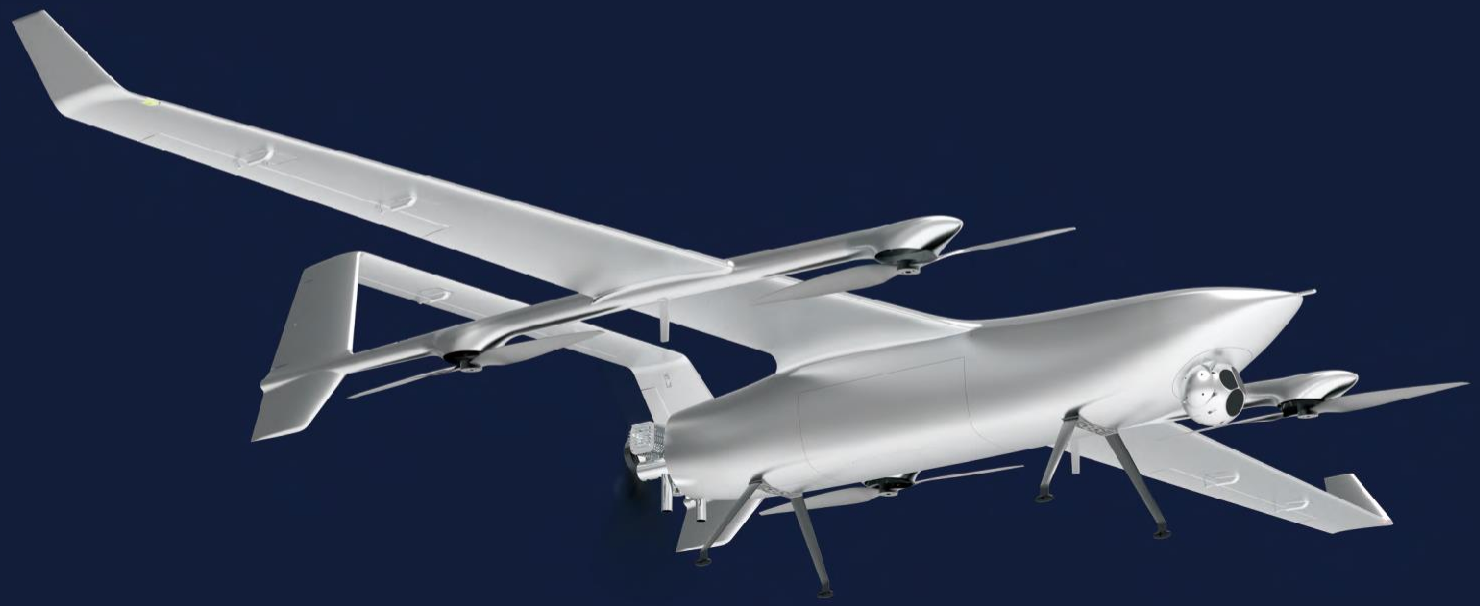


V500H

Ultimate Performance
Ultimate Intelligence

1000km	**> 10h**	**100km**	**20kg**
Maximum range	Maximum endurance	Operation radius	Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

V500H

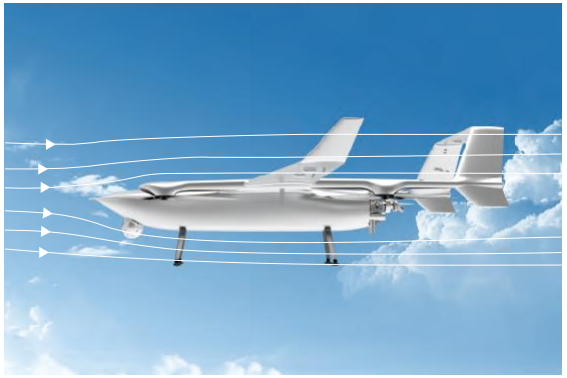
The V500H adopts hybrid power, with streamlined high-aspect-ratio wings and wing-body integrated layout, and can achieve 10h of endurance. Meanwhile, the V500H is equipped with a fully automatic takeoff and vertical takeoff and landing system and can be additionally equipped with a high-precision stable photoelectric platform. The UAV is featured by fully autonomous operation, providing users with more convenient and reliable operations, more flexible application and more simplified operation threshold.

Ultimate Performance

- 10h super-long endurance+20kg maximum payload.
- It adopts highly cambered blade, high lift coefficient, and be suitable for prolonged hanging.

Quick Response

- Disassembly and assembly can be completed in 15 min without any tool and multiple mission payload can be customized.



Very Low Threshold

- With a fully autonomous operating system, enabling simpler operation.

Technical Parameter

Overall Size:	4940*2560*900mm	Maximum Takeoff Weight:	60kg
Maximum Flight Speed:	110km/h	Standard Payload:	10kg
Standard Cruise Speed:	83km/h	Maximum Payload:	20kg
Engine:	2 Stroke EFI engine	Operating Temperature:	-20~60℃
Endurance:	>10h	Maximum Flight Altitude (Average Altitude):	6000m
Maximum Range:	1000km	Wind Resistance:	For Cruise Mode, Level 6/For VTOL, Level 4

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V330PLUS

New Upgrade in 2023,
Doubling in Performance

320km
Maximum range

4.2h
Maximum endurance

50km
Operation radius

8kg
Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

V330PLUS

Since its formal launch and mass production in 2017, V330 product series has gone through many years of market testing and practical application. In 2023, with years of in-depth research and innovation, the V330 Plus will effectively increase its endurance capacity by 67% and load capacity by more than 100% Through improving its power system, flight control system and shape streamline design on the basis of the V330 Pro.

Quick response

◆Quick on and off structure, system deployment could be done in 5 minutes.

Excellent Resilience

◆Unlimited to the takeoff site, practical ceiling up to 6000 metre, could be switched with multiple payloads, maximum endurance up to 4.2 hours.

Super adaptation

◆It can remain stable operation under the conditions of high altitude, high humidity, low temperature and drizzle.

Technical Parameter

Overall Size:	3290*1800*410mm	Maximum Takeoff Weight:	24kg
Cruise Speed:	80~126km/h	Standard Payload:	4kg
Maximum Endurance:	4.2h	Maximum Payload:	8kg
Maximum Flight Altitude (Average Altitude):	6000m	Wind Resistance:	For Cruise Mode, Level 6/For VTOL, Level 4

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V330MAX

Accurate positioning
Highlighting the advantages of inspection

320km
Maximum range

4h
Maximum endurance

50km
Operation radius

8kg
Maximum payload


EO Pod


EO & IR pod


EO & IR & RFD pod

V330MAX

The most complete VTOL series

The SMD-330MAX UAV is a VTOL fixed-wing UAV developed by SMD UAV Company for industrial application. It can be deployed quickly and is easy to transport and carry. Cooperating with the automatic driving system, it can take off and land vertically, and complete flights such as hovering and cruising. Can be used with: high-definition EO pod, EO&IR pod, thermal imaging, orthographic cameras, oblique pentacular cameras and other mission load equipment. It is used to perform tasks such as inspection, reconnaissance, evidence collection, search and rescue, aerial survey, etc. It is suitable for application scenarios such as forest fire prevention, urban fire protection, traffic inspection, border inspection, urban inspection, anti-drug and drug control, power inspection, smart city construction, etc. It also accepts customized development, providing corresponding corresponding interfaces.

Various load capacities

- The maximum take-off weight is 24kg, which belongs to the category of small UVA and does not require an airworthiness certificate(A/C).
- Strong load capacity, various load types, and superior load performance

Modular

- Modular design, quick disassembly and assembly, easy to use
- Pure electricity, low maintenance cost, low usage cost, low noise, high reliability and stability

Adaptable

- VTOL design, low take-off and landing airspace requirements, strong environmental adaptability
- Extra long flight time, longer flight control distance, faster speed and higher efficiency

Technical Parameter

Overall Size:	3200*1300*190mm	Maximum Takeoff Weight:	24kg
Maximum horizontalflight speed:	120km/h	Maximum payload weight:	8kg(Standard payload:3kg)
Mission cruise speed:	72km/h	Video link control distance:	50km
Maximum Flight Altitude (Average Altitude):	5000m	Operation temperature:	-20~55℃℃
Maximum Endurance(With no load):	4h	Hover accuracy:	Vertical+20cm,Horizontal+ 1.5m
Maximum voyage:	320km	Wind Resistance:	VTOL:level 5, horizontal: level 6, gust: level 7

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V500E Electric

Extremely Intelligent, Cloud-based, Modular and Systematic

210km	2.5h	50km	15kg
Maximum range	Maximum endurance	Operation radius	Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

V500E

The most complete VTOL series

V500E adopts pure electric design, and the EFI engine is stable and easy to maintain. V500E is cloud-based, modular and systematic. It has the ability of completely autonomous operation, and can be equipped with high-precision stable photoelectric pod to provide users with more convenient and reliable operation, more flexible application and lower operating threshold.

V500E has been widely applied into many fields including aerial photogrammetry, disaster monitoring and assessment, emergency monitoring, forest fire prevention and urban fire control, and territorial resources survey.

Cloud-based

- Fully automatic intelligent takeoff and landing, flight, AI intelligent target identification and tracking.
- It adopts highly cambered blade, high lift coefficient, and be suitable for prolonged hanging.

Modular

- Assembly and disassembly can be completed in 15 minutes without any tools, and multiple mission payloads can be customized.

Systematic

- The aerodynamic streamline design perfectly fit with the cloud-based flight and data processing platform.

Technical Parameter

Overall Size:	4940*2560*900mm	Maximum Takeoff Weight:	60kg
Maximum Flight Speed:	110km/h	Standard Payload:	10kg
Standard Cruise Speed:	83km/h	Maximum Payload:	15kg
Engine:	Brushless Motor	Operating Temperature:	-20~60℃
Endurance:	2.5h	Maximum Flight Altitude (Average Altitude):	6000m
Maximum Range:	210km	Wind Resistance:	For Cruise Mode, Level 6/For VTOL, Level 4

The most complete VTOL series

V380PRO

Extremely Rapid and Agile, Flexible and Windproof

210km	2.8h	50km	8kg
Maximum range	Maximum endurance	Operation radius	Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

V380PRO

By integrating the advantages of multi-rotor and fixed-wing UAVs in an innovative way, in combination with the tilt-rotor technology, V380Pro VTOL fixed-wing UAV realizes the autonomous switching between multi-rotor and fixed-wing modes, with significantly improved load capacity and endurance. V380Pro is characterized by flexible assembly, convenient operation, large space and payload, and customizable pods.

Extremely Rapid and Agile

◆Assembly and disassembly can be completed in 15 minutes without any tools, and support customized pods.

Flexible and Windproof

◆It has multi-power redundancy and multi- sensor redundancy design with safety and efficiency.

Convenient Operation

◆Multiple payload/range schemes can be implemented to meet the requirements of more scenarios.Large space and large payload.The volume of V380PRO reaches 15L, realizing higher loading requirements.

Technical Parameter

Overall Size:	3800*1550*800mm	Maximum Takeoff Weight:	25kg
Maximum Flight Speed:	110km/h	Standard Payload:	5kg
Standard Cruise Speed:	80km/h	Maximum Payload:	8kg
Endurance:	2.8h	Operating Temperature:	-40~60℃
Maximum Flight Altitude (Average Altitude): 6500m		Wind Resistance:	For Cruise Mode, Level 6/For VTOL, Level 4

The most complete VTOL series

V330PRO

The Aerial "Scout" Responds Quickly

Aerial Scout Quick Respond Unique Insight

270km	3.5h	50km	4kg
Maximum range	Maximum endurance	Operation radius	Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

V330PRO

V330PRO, known as the "aerial scout", is a UAV with the main function of aerial surveillance. It adopts modular, rapid dismounting and small lightweight design, which is convenient for users to deploy quickly on site. V330PRO is characterized by fast response, intelligent surveillance, and super-long endurance and so on.

Fast response

◆Three-minute on-site rapid assembly realizes small packaging for large aircraft.

Super Endurance

◆Up to 3.5 hours of flight time.

Intelligent Surveillance

◆It is equipped with a 3-axis light-weighted special spherical pod with slip rings to achieve 360° continuous rotation. It can also be equipped with 30 times high-definition visible light camera, laser range finder, infrared camera, etc., with target tracking and AI recognition functions.

Technical Parameter

Overall Size:	3143*1692*411mm	Maximum Takeoff Weight:	18.4kg
Maximum Flight Speed:	120km/h	Maximum Load Weight:	4kg
Standard Cruise Speed:	70km/h	Body Weight:	9kg
Endurance:	3.5h	Operation radius:	50km
Maximum Flight Altitude (Average Altitude):	4500m	Wind Resistance:	For Cruise Mode, Level 6/For VTOL, Level 4

The most complete VTOL series

Z4

Unique and Flexible,
New Era of All-Weather Aerial Survey

150km
Maximum range

2h
Maximum endurance

15km
Operation radius

1.2kg
Maximum payload

10X EO pod

30X EO pod

IR camera

24.3 megapixel orthophoto camera

42.4 megapixel orthophoto camera

Multispectral dual camera

121 megapixel five-lens oblique camera

Z4

Z4 is characterized by small size, portability, multi-purpose, simple assembly, convenient operation and so on. The compact body design enables it to be stored and transported in a small space. It only takes 1 minute to complete the assembly.

The IP45 industrial protection design of Z4 enables it to adapt to all kinds of severe weather conditions (moderate rain/light snow), take off and land in a force 6 gale, and carry out patrol inspection on forests, oil fields, highways, border lines and so on, meeting the requirements of all-weather operation.

Compact Body

◆Assembly can be completed within 1 minute.

Big Power

◆Multi-power redundancy, multi-sensor redundancy and IP 45 protection make it meet the requirements of all-weather operation.

Flexibility

◆Multiple payload/range schemes can be implemented to provide users with more choice.

Technical Parameter

Overall Size:	2400*1100*330mm	Maximum Takeoff Weight:	7.3kg
Maximum Flight Speed:	110km/h	Maximum Ascent Rate:	4m/s
Standard Cruise Speed:	70km/h	Maximum Descent Rate:	5m/s
Endurance:	2h	Work Temperature :	-10～60℃
Maximum Flight Altitude (Average Altitude):	4500m	Wind Resistance:	Level 6

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CLOUD IIS

Aerial Generalist, Intelligent New Ecology

32km	1h	15km	10kg
Maximum range	Maximum endurance	Operation radius	Maximum payload

EO Pod

EO & IR pod

EO & IR & RFD pod

3-in-1 multi-function module

Loudspeaker module

Noise dispelling module

Highlight module

Multi-throw module

Gas detection module

Water collection module

Transmission module

3KG small cargo cabin

Cloud IIS

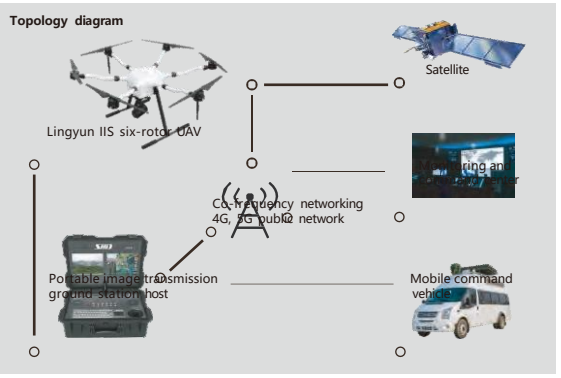
Cloud IIS adheres to the design concept of “more intelligent, more simpler” upgrades the second-generation intelligent flight control system, and provides a safer and more intelligent flight experience by integrating multiple redundant sensor design. SMD Cloud IIS is characterized by long endurance and large load capacity. In terms of industrial design, it adopts IP56 industrial waterproof protection, which can realize all-weather operation; the power system uses airtight big power brushless motor, which can meet the requirements of ultra-long endurance.

Intelligent flight

◆SMD CLOUD IIS upgrades to 2nd-Gen intelligent flight control system and integrates multiple redundant sensors, cm-level-accuracy RTK & PPK, high integration GCS software, level IP56 waterproof.

Intelligent obstacle avoidance

◆With millimeter-wave radar intelligent obstacle avoidance system, it can automatically conduct intelligent terrain perception and intelligent landing point screening to ensure flight safety in complex environment.



Endless intelligence

◆The new mounting module interface can mount a variety of task modules such as EO pod, EO & IR pod, searchlight, loudspeaker, thrower.

Technical Parameter

Duration:	1h	Maximum Takeoff Weight:	15kg
Climbing Rate:	≥2.9m/s	Maximum Load Weight:	10kg
Channel Rate of Videolink:	≥8Mbps	Climbing Rate:	≥5.8m/s
Protection Level:	IP56	Operating Temperature:	-10～50℃
Maximum Flight Altitude (Average Altitude):	4500m	Wind Resistance:	Level 6

The most complete VTOL series

Q280

Large Payload Logistics Transport Uav

20km
Maximum range

0.5h
Maximum endurance

100kg
Maximum payload

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Q280

Q280 adopts a six-rotor design. Its most distinct feature is high vertical lift force, with an effective payload up to 100 kg. Q280 is characterized by large payload, fast response, long endurance and high system integration; with flexible and efficient fuselage design, it has sufficient capacity and strong power to secure air logistics.

Delivery in minutes

◆Q280 can be assembled within one minute, and can be "delivered in minutes" between different cities.

Large load capacity

◆The "large capacity" of the UAV makes it more convenient to handle goods; the maximum load capacity is 100Kg, so subpackaging is not required for emergency delivery.

Intelligent logistics

◆Q280 has the advantages of easy maintenance and operation, efficient transportation and low operation cost, and is the best choice for air logistics transportation.

Technical Parameter

Rotor Outer Diameter:	4500mm	Maximum Takeoff Weight:	280kg
Flying Speed:	40km/h	Maximum Payload:	100kg
Navigation Mode:	GPS+Inertia Guidance	Maximum Range:	20km
Endurance:	0.5h	Operating Temperature:	-20~50℃
Service Life:	5000 Sorties	Wind Resistance:	For VTOL, Level 5/For Horizontal Flight, Level 6

The most complete VTOL series

Manned UFO

6km
Maximum range

15min
Maximum endurance

500kg
Maximum payload

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Manned UFO

The UFO-shaped shell inside the skeleton that complies with engineering mechanics can not only rectify and reduce resistance, protect internal equipment, and provide a safe driving space for personnel, but also plays a key role in improving the aesthetics of the aircraft and giving it a sci-fi visual effect; the bubble-shaped cockpit integrated with the UFO body is also an ingenious feature of the entire design. Manned UFO mainly used in aerial tour and flight entertainment scenarios.

Our Mission: Let manned UFO travels to tourist resorts around the world, let people appreciate the beautiful scenery with God's vision, and create a new era of aerial entertainment!

High Comfort

◆ Smooth flight, low noise, and good user experience. Traditional helicopters are noisy, generally exceeding 90 decibels. Electrically driven eVTOL can significantly reduce noise by controlling the propeller tip speed.

Features

◆Vertical take-off and landing, no runway required, autonomous driving, low noise, pure electric drive, zero emissions, multiredundant safety design.

Low Cost

◆Production costs and operating costs are significantly lower than helicopters, with a drop of 60%.

Technical Parameter

Diameter: 5000mm	Standard Takeoff Weight: 500kg
Passenger Capacity: 2 people (75kg/person)	Body Weight: 350kg
Navigation Method: GNSS/ Inertial Navigation System/GPS/RTK/Lidar	No-Load Endurance Time: 15min
Materials: Glass Fiber, Carbon Fiber, Aluminum Alloy, Aviation Laminate, PMI	Full Load Endurance: 10min
Maximum Range: 6KM	Wind Resistance Level: Level 5

Ground Control Station 1

- Adopt dual-screen structure design of high brightness LCDs, realizing the simultaneous display of images and flight data.
- Support intra-frequency networking and 4G public network equipment to connect images to the command center for management.
- Receive 1080P HD video in real time, without continuous mosaic, pause and frame loss and with good color rendition effect.
- Physical keys: lock/unlock, takeoff, automatic route, return, landing, throw, photograph/camera, zoom and pan-tilt rocker keys can realize the quick and effective control of the aircraft and airborne mission module.
- Single screen size: ≥ 10.4 inches, brightness: ≥ 1000 nits, sunlight readable.
- Videolink resolution: 1080P, 1080i, 720P, 576i.
- Multiple data output interfaces (USB×2, HDMI×1) .
- Videolink distance:≥10~100km.
- Operating time: ≥ 5 hours.

Ground Control Station 2

- Adopt dual-screen structure design of high brightness LCDs, realizing the simultaneous display of images and flight data.
- Support intra-frequency networking and 4G public network equipment to connect images to the command center for management.
- light weighted and portable, weight only for 8kg.
- Physical keys: lock/unlock, takeoff, automatic route, return, landing, throw, photograph/camera, zoom and pan-tilt rocker keys can realize the quick and effective control of the aircraft and airborne mission module.
- Single screen size: ≥ 13.3 inches, brightness: ≥ 1000 nits, sunlight readable.
- Videolink resolution: 1080P, 1080i, 720P, 576i.
- Multiple data output interfaces (USB×4, HDMI×2).
- Videolink distance:≥10km.
- Operating time: ≥ 6 hours.

SMD-GCS01 and SMD-GCS02 ground stations are portable ground stations launched by SMD. As advanced patented engineering materials are adopted, their seismic, impact and water and dust resistance have been greatly improved. Computers, flight operation software, software operation monitor, image monitor, image receiving radio, two-way data transceiver, power manager, high-capacity battery and antenna and other equipment are integrated in the ground stations.

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