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GDU

S200 Series UAVs

Industrial Flagship, New Level Application

720° Obstacle Avoidance

IP43 Ingress Protection Level

45

45min Flight Time

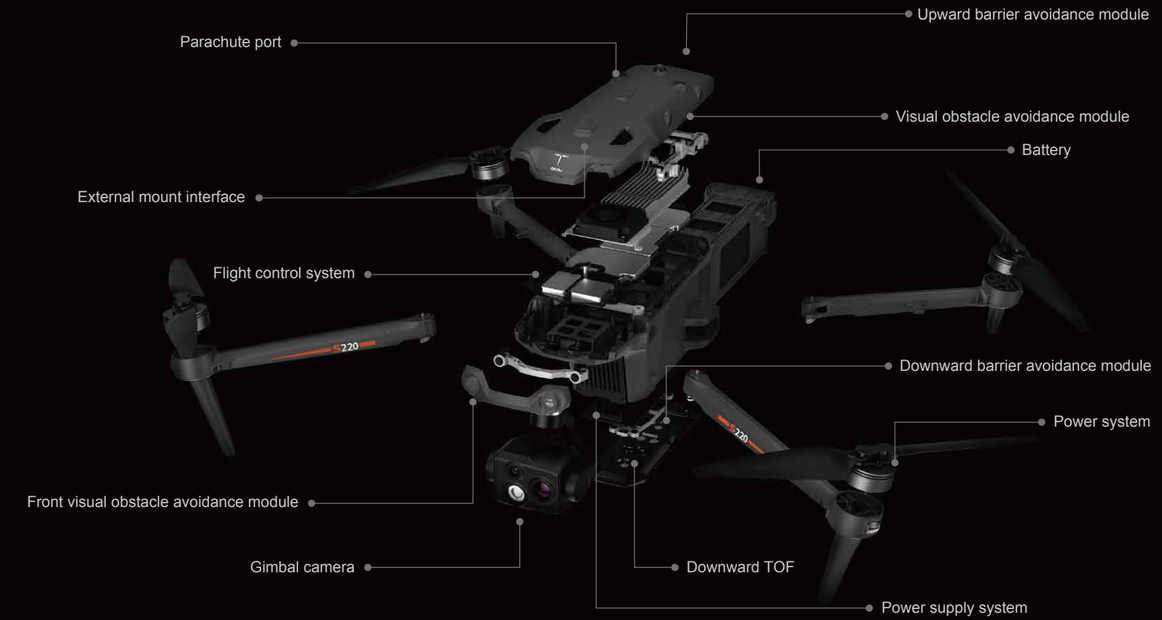
AI

AI Smart Recognition

S200 Series UAVs

The powerful power system design, more comprehensive industry application load, ultra-long battery life; equipped with the industry's leading octa-core chip, total computing power of 21T, with powerful visual intelligence AI recognition ability, can achieve cloud-edge-end collaborative work; streamlined body design, compact and portable, with powerful performance.

2050g	6000m	15km	486mm
Max Take-off Weight	Max Take-off Altitude	Image Transmission Range	Diagonal Distance



GDU | S200 Series UAVs

Satellite Communication, Connect at Ease

It has the capability of direct satellite communication, which can realize message communication in the area without the coverage of ground communication network, break the limitation of traditional communication methods, solve the emergency communication problem in the scenario without network, and provide a strong communication guarantee for sea navigation, field exploration, disaster rescue and so on.

Highly reliable

Extremely safe

Ultra compatible

5G Signal, 4K Live Streaming

5G link can achieve ultra-clear live streaming. Across the data link restrictions, it can also ensure that business is not interrupted, the status is visible, and the equipment is controllable in the interference environment, providing a new solution for traffic dredging, security inspection, emergency rescue, traffic logistics and other scenarios.

GDU | S200 Series UAVs

Visual Aid for Safe Return

It can accurately detect obstacles within the target range, and can automatically return to home when the positioning signal is weakened or lost. Excellent obstacle avoidance capabilities bring a reliable flight experience, and can flexibly cope with complex environments and various operating scenarios.

Visual Navigation for Indoor Inspection

The UAV is based on indoor autonomous inspection technology and has the ability to fly autonomous routes in indoor scenarios without GNSS signals such as substations and warehouses. It is expected to achieve fully automatic and intelligent unattended inspections with the combination of Docking Station.

S220

Ultra-HD Trio Camera for an Unobstructed View

Clear pixels/High zoom/Sensitive perception

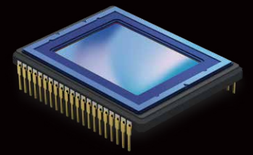
5 MP	10X Optical Zoom	160X Max Hybrid Zoom
Wide Angle Camera	Telephoto Camera	Telephoto Camera

Person recognition range reaches 2KM, vehicle recognition range reaches 6KM, vehicle recognition range reaches 300 meters, PDAF focusing time is less than 60 milliseconds, and the focus is extremely fast and clear during the zoom process. It has a three-axis mechanical gimbal and EIS electronic anti-shake, and the picture is stable and does not drift.

250mm Telephoto Camera

Supports 10x optical zoom and 160x max hybrid zoom, enabling clear shooting of targets at different distances, greatly improving work efficiency

Wide angle　　160X Zoom



High Pixel Wide Angle Camera

50MP,

Delicate and clear imaging,

More details can be seen at a glance

Thermal Camera

32x digital zoom, flagship infrared sensing capability, can quickly lock targets even during night patrols

S220 PRO

1K Thermal Camera, Portable & Powerful

Small size but premium performance, 1280*1024 HD infrared camera, better image quality and accuracy; it can greatly improve inspection efficiency; equipped with the industry's lightest 1K quad-sensor camera, it can monitor wide-angle, zoom, and infrared images at the same time, and perform point positioning within 1.5km range.

Wide-angle camera

1/0.98-inch CMOS
50MP
24mm equivalent focal length

Thermal camera

1280*1024
14mm focal length lens
32x digital zoom

Precise Laser Ranging

Range: 10~1500m

Tele camera

10x optical zoom
160x max hybrid zoom

50MP	48MP	10X	160X	1280*1024
Wide-angle Camera	Zoom Camera	Optical Zoom	Max Hybrid Zoom	Thermal Resolution

GDU | S200 Series UAVs

100T Edge Computing Power

21T on-board computing power + 100T edge computing power can be customized and flexibly expanded AI scene recognition algorithms; the distributed AI platform supports cloud-edge-device collaboration.

AI Recognition System

Multi-sensor intelligent linkage can realize real-time automatic target recognition, image following and edge recognition, achieving efficient operation and accurate data collection at the same time.

Auto recognition
Auto follow

GDU | S200 Series UAVs

Multiple Loads, Widely Applicable

It has multiple loads such as dual-sensor, trio-sensor, quadra-sensor cameras, megaphones, searchlights, AI boxes, etc. to meet the complex operation requirements of multi-task scenarios.

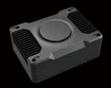
Open Payloads Ecosphere

The S200 series supports connection to third-party control platforms and other external devices to achieve integrated control of software and hardware, thereby continuously optimizing collaborative work processes, reducing development costs, and using drones as carriers to obtain more sensory information.

A-RTK-S200 Module

The RTK module can be combined with network RTK or customized network RTK services to provide high-precision centimeter-level positioning functions.

RTK position accuracy: RTK(fix)
Horizontal: 1 cm + 1 ppm
Vertical: 1.5 cm + 1 ppm
System and frequency support
GPS: L1C/A L2C/L2P BDS: B1I B2I
GLO: G1 G2 GAL: E1 E5b QZSS: L1 L2



A-AI01 Airborne AI Box

The AI box is equipped with 100Tops computing power and a built-in algorithm market, and can freely configure AI application algorithms for various scenarios.

Weight: 140g
AI computing power: 100T computing power
Protection level: IP55
Compatible with mainstream AI frameworks: Supports adaptation of industry-leading machine learning frameworks such as Caffe, TensorFlow, PyTorch, PaddlePaddle, etc., provides SDK interface, supports users to update algorithm models

ABD-200 BD Positioning Module

It can be combined with network RTK or customized network RTK services to provide high-precision centimeter-level positioning functions.

Position accuracy: fix
Horizontal: 1 cm + 1 ppm
Vertical: 1.5 cm + 1 ppm
System and frequency support
BDS B1I, B2I, B3I, B1C, B2a, B2b

TTX-01 5G module

The 5G module is an airborne network terminal that is free from the control distance limit of the remote control, real-time air access, network remote control and real-time transmission, and synchronous acquisition and processing of real-time information in the cloud.

5G network: supports SA and NSA
4G network: supports LTE TDD and FDD
Transmission rate NR SA: Max 2.5Gbps DL/900Mbps UL
NR NSA: Max 2.5Gbps DL/500Mbps UL
LTE: Max 1.5Gbps DL/200Mbps UL
Video transmission delay ≤300ms transmission rate

ADB-200 Satellite Message Module

It innovatively combines satellite communication functions to ensure information transmission and reception in areas without signals.

Signal receiving
Frequency range: 2491.75±8.16 MHz
Static power consumption: ≤0.7W
Transmitting power consumption: ≤15W

THH-200 Megaphone

The megaphone can realize tasks such as real-time audio play, recording and playback, audio file playback, warning lights, etc. in different environments.

Playback sound pressure: 107dB@1m
Audio format: Supports mp3, wav, flac, acc
Broadcast distance: 150m
Code stream: Support audio code stream ≥16Kbps

AUWB-200 UWB Module

It measures the absolute distance between micro base stations by accurately measuring the propagation time of wireless pulses in space, and calculates the position in real time, achieving 10cm-level positioning accuracy.

Position accuracy
Horizontal: 10cm + 1 ppm
Vertical: 15 cm + 1 ppm
Transmission distance: 100m
Frequency range: 3GHz~8GHz

TTZ-200 Searchlight

The searchlight can realize basic functions such as turning on and off lights, flashing lights, warning lights, flashing lights, etc. in different environments. It effectively meets the application scenarios of small drones such as night inspections, direction indication, search and rescue, etc.

Illuminance of lighting center (30W ultra-bright mode)

50m	75m	100m
20Lux	10Lux	3Lux

Lighting area

50m	75m	100m
80m²	200m²	380m²

GDU Flight II

GDU Flight II is a companion app for S200 series UAVs. It integrates industry application functions and is simple and efficient to operate. You can use the flight planning function to set routes, control drones to operate autonomously, simplify work processes, and improve work efficiency.

GDU UVER Smart Management Platform

UVER intelligent management and control platform integrates information aggregation, information processing and synchronization functions. When used with GDU Flight II, data can be uploaded to the cloud, data interoperability can be achieved, and aircraft capabilities can be expanded.

Cloud deployment

Date synchronization

Open registration

One-stop operation and maintenance monitoring

Unmanned Duty, Efficient Flight Inspection

The S200 series drones are integrated with K02 and K03 Auto Docking Station. They have super adaptability for battery replacement/charging, and cloud control is always on standby, effectively empowering the drones to fly autonomously.

Integrated design

Cloud control

Power change/charge

Auto flight

Multiple Application, Empower Low-altitude Economy

SPECS

S200

Diagonal Distance	486mm
Weight	1750g
Max take-off weight	2050g
Max flight time	45min
Max ascent speed	8m/s
Max descent speed	6m/s
Max wind speed	12m/s
Max take-off altitude	6000m
Communication distance	15km (FCC) 8km (CE/SRRC/MIC)
Wide-angle visible light lens	Effective pixel: 48MP
Telephoto visible light lens	Effective pixel: 48MP, Optical zoom: 10X, Max hybrid zoom: 160X
IP Level	IP43
Hovering accuracy (RTK)	Vertical: 1.5 cm + 1ppm Horizontal: 1 cm + 1ppm

S220

Diagonal Distance	486mm
Weight	1750g
Max take-off weight	2050g
Max flight time	45min
Max ascent speed	8m/s
Max descent speed	6m/s
Max wind speed	12m/s
Max take-off altitude	6000m
Communication distance	15km (FCC) 8km (CE/SRRC/MIC)
Wide-angle visible light lens	Effective pixel: 48MP
Telephoto visible light lens	Effective pixel: 48MP Optical zoom: 10X, Max hybrid zoom: 160X
Thermal lens	640×512@30fps
IP Level	IP43
Hovering accuracy (RTK)	Vertical: 1.5 cm + 1ppm Horizontal: 1 cm + 1ppm

S220 PRO

Diagonal Distance	486mm
Weight	1860g
Max take-off weight	2050g
Max flight time	41min
Max ascent speed	8m/s
Max descent speed	6m/s
Max wind speed	12m/s
Max take-off altitude	6000m
Communication distance	15km (FCC) 8km (CE/SRRC/MIC)
Camera	Wide, tele, thermal camera&laser ranging camera
Wide-angle visible light lens	Effective pixel: 48MP
Telephoto visible light lens	Effective pixel: 48MP Optical zoom: 10X, Max hybrid zoom: 160X
Thermal lens	1280×1024@30fps, 640×512@30fps (Option)
Laser ranging	10-1500m
IP Level	IP43
Hovering accuracy (RTK)	Vertical: 1.5 cm + 1ppm Horizontal: 1 cm + 1ppm