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GDU

# S200 Series UAVs

*A New Industry Standard, Redefining Application Excellence*




Omnidirectional AI Obstacle Avoidance for Precision Navigation

Safe RTH with Superior Anti-Interference Capacities

4K Full-Color Starlight Night Vision

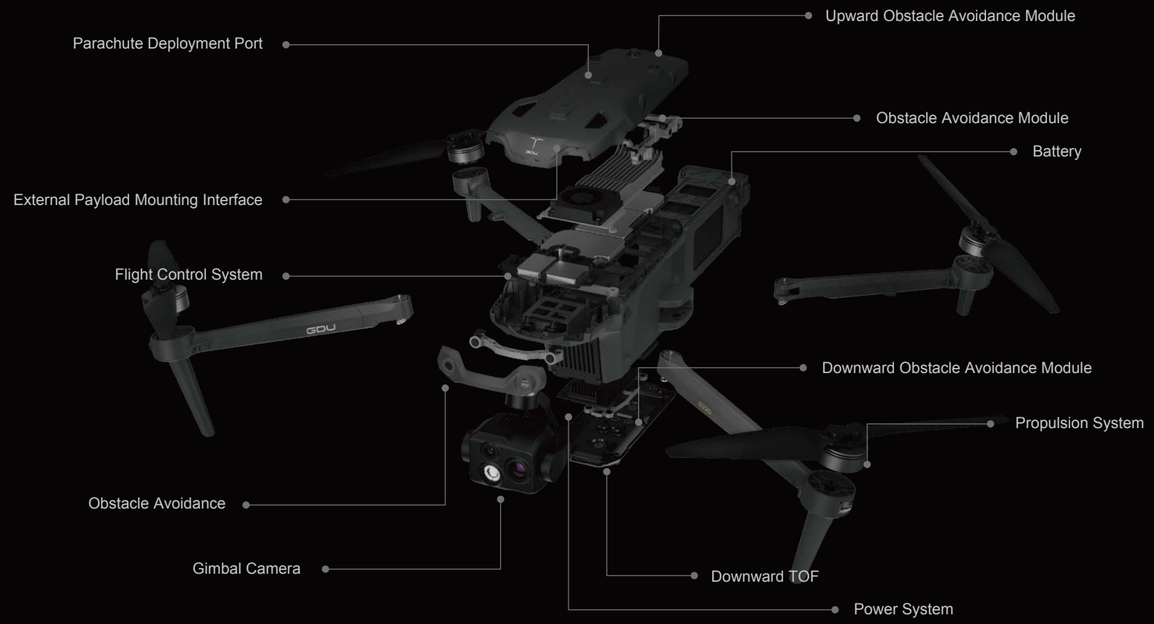
10x Optical Zoom, Lightning-Fast Focus

# S200 Series UAVs

Featuring a powerful propulsion system, this UAV offers a wide range of industrial payloads and delivers ultra-long endurance. Powered by a domestically developed, industry-leading octa-core chip with 21T of computing power, it excels in visual AI recognition and supports seamless cloud-edge collaboration for efficient operations. Its compact and portable design ensures exceptional performance.






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# Safe RTH with Superior Anti-Interference Capacities

In environments where satellite signals and data links are disrupted, the UAV utilizes visual positioning fusion navigation algorithms and frequency-hopping image transmission technology to ensure safe operation and reliable return-to-home functionality.







# AI Obstacle Avoidance for Precision Navigation

Equipped with six-direction binocular sensors and an AI obstacle avoidance algorithm, the UAV can precisely detect small obstacles, ensuring safe and stable flight.



## 10x Optical Zoom, Lightning-Fast Focus

The 48MP wide and zoom visible-light cameras support continuous 10x lossless optical zoom and up to 160x hybrid zoom. With Phase Detection Auto Focus (PDAF) as fast as 60 milliseconds, targets —near or far— are captured with remarkable clarity and instantly locked in, ensuring no moment is missed.

| 48 MP | 10x optical zoom | 160x Max Hybrid Zoom |
|---|---|---|
| Wide-Angle Camera | Tele Camera | Tele Camera |



Wide-angle imaging



160x capture

## Three-Axis Mechanical Gimbal & EIS Technology

The three-axis mechanical gimbal and EIS technology ensures stable, sharp, and smooth video capture, even during telephoto shooting at magnification above 6x.







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# 1K Infrared Imaging, Every Detail Captured

With 1K infrared thermal imaging, 2K AI-enhanced super-resolution photography, and 32x AI super-resolution zoom (Exclusive to S220Pro 1K), capturing every detail with precision.






**Wide-Angle Camera**

48 MP
Equivalent Focal Length: 24mm

**High-precision Laser Rangefinder**

Measurement Range: 10~1500 m

**Thermal Infrared Camera**

Thermal Imaging Resolution: 1280×1024
14 mm Focal Length Lens
32x Digital Zoom

**Zoom camera**

10x optical zoom
Up to 160x hybrid zoom



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## 640 Infrared 1K Super-Resolution (S220/S220Pro640 only)

This solution features a 640-resolution thermal imager, upgradable to 1K resolution using AI-powered UHR technology. It supports 32x hybrid zoom, clearly revealing distant targets. The high-precision thermal imaging enables all-weather, continuous monitoring with zero blind spots.



## Link Zoom Between Zoom and Infrared Thermal Cameras

The zoom camera and infrared thermal camera support link zooming, allowing simultaneous adjustment of the zoom ratio of both camera views within the same interface.
This greatly enhances target acquisition efficiency.



6x Link Zoom

1x Link Zoom

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# AI Ultra-Sensitivity, 4K Full-Color Starlight Night Vision

The AI ultra-sensitivity feature offers three modes, achieving a maximum ISO of 600000. Even under starlit skies, it delivers pristine, crystal-clear 4K full-color night videos.










# 5G Communication, 4K Live Streaming



The 5G Link enables ultra-clear live streaming, overcoming data link limitations. Even in environments with interference, it ensures seamless business operations, visible status, and controllable devices. This offers innovative solutions for traffic management, security inspections, emergency support, and other critical scenarios.

# AI Tracking with Relentless Precision

AI-advanced tracking function offers unerring accuracy. Once a target is selected, continuous tracking is maintained with precise positioning and automatic magnification adjustment. Seamless switching between targets is supported, and the target momentarily lost can be automatically reacquired.







# Laser Rangefinding up to 1500 m

The integrated laser rangefinder offers a maximum range of 1500m. With intelligent laser-assisted pinpointing, the target's coordinates (latitude and longitude) and distance from the aircraft can be measured with high accuracy.





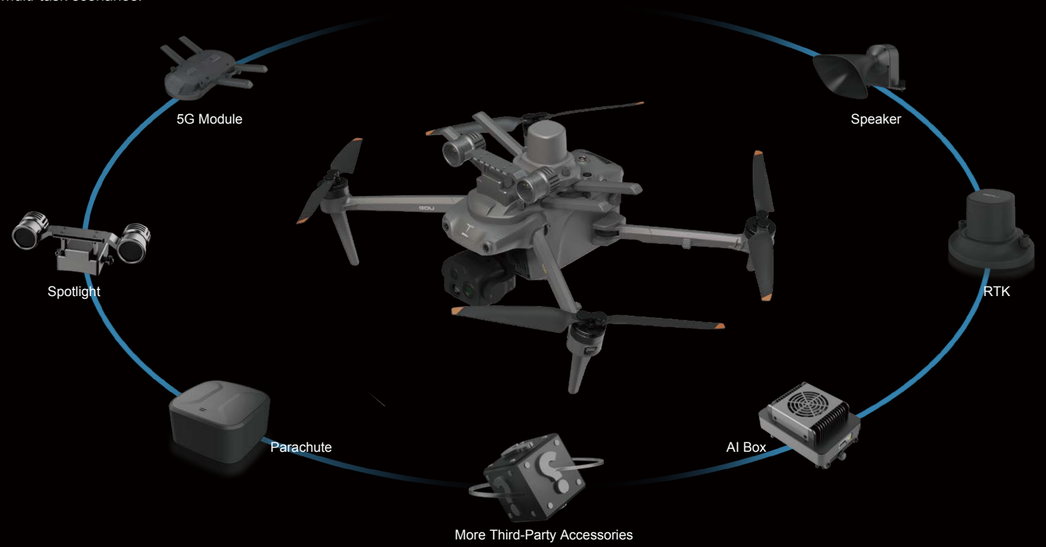




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# Versatile Payloads, Expansive Applications

A wide range of payloads are supported, including dual-sensor, triple-sensor, 640 quad-sensor, 1K quad-sensor, speaker, spotlight, AI box, and more, meeting complex operational needs of multi-task scenarios.






# Open-Payload Ecosystem

The S200 series supports connection with third-party control platforms and external devices, enabling integrated control of hardware and software. This continuous optimization of collaborative workflows reduces development costs and leverages the UAV as a platform for gathering additional sensing data.



## 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



## 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



## A4G-200A 4G Expansion Box

*The 4G Expansion Box is a TD-LTE wireless data terminal designed to overcome the control range limitations of traditional remote controllers. It enables network-based remote control and real-time transmission, with cloud-based synchronization for data acquisition and processing.*

Maximum Power Consumption: ≤5 W
Supported Bands: TD-LTE: B39 / B40 / B41
LTE FDD: B1 / B3 / B5 / B8
Weight: ≤95 g
Dimensions: 144 × 252 × 50 mm (±2 mm)
Protection Rating: IP43



## A5G-200A 5G Expansion Box

*The 5G Expansion Box is an airborne network terminal designed to eliminate the control range restrictions of remote controllers. It supports real-time aerial networking, enabling network-based remote control and data transmission, with cloud synchronization for real-time information acquisition and processing.*

Maximum Power Consumption: ≤15 W
Supported Bands: 5G NR: N1 / 28 / 41 / 78 / 79
4G LTE FDD: B1 / B3 / B5 / B8
4G LTE TDD: B34 / 38 / 39 / 40 / 41
Weight: ≤105 g
Dimensions: 144 × 181 × 38 mm (±2 mm)
Protection Rating: IP43



## 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



## PPC02 Parachute System

*The PPC02 is an emergency descent device designed specifically for the S200 series UAVs. In case of critical failure or hazardous situations, the parachute is deployed to leverage air resistance, effectively reducing the UAV's falling speed and minimizing impact.*

Maximum Payload: ≤2 kg
Dimensions: 61 × 61 × 47 mm (±1 mm)
Total Weight: ≤80 g
Deployment Time: ≤100 ms
Minimum Deployment Altitude: 30 m



## 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



## 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 the supporting flight software for the S200 series UAV that integrates the industry application function to achieve operational simplicity and efficiency. With its flight planning capabilities, users can set flight routes and control the aircraft's autonomous operations, greatly streamlining workflows and improving work efficiency.

# GDU UVER Smart Control Platform

The GDU UVER Smart Control Platform integrates information gathering, processing, and synchronization. When paired with the GDU Flight II software, it enables cloud-based data synchronization, data sharing, and enhanced aircraft capabilities.

- Cloud Deployment
- Data Cloud Synchronization
- Open Registration
- One-stop O&M and Monitoring





# Unmanned and Efficient Inspection

The S200 Series UAV seamlessly integrates with GDU's K02 and K03 auto docking stations, enabling strong battery swapping and charging and cloud-based control on standby, and empowering high-efficiency autonomous UAV patrols.

- Integrated Design
- Cloud Control
- Battery Swapping/Charging
- Autonomous Inspection



# Versatile Solutions for Low-Altitude Economy





















## Produktparameter





















| S200 | |
|---|---|
| Dimensions (Folded) | 175x272x130mm |
| Dimensions (Unfolded) | 613x699x133mm |
| Wheelbase | 486mm |
| Weight | 1750g |
| Maximum takeoff weight | 2050g |
| Maximum Flight | 38min |
| Max. Ascent Speed | 8m/s |
| Max. Descent Speed | 6m/s |
| Max. Wind Speed Resistance | 12m/s |
| Max. Altitude | 6000m |
| Communication Distance | 15km（FCC） |
| | 8km（CE/SRRC/MIC） |
| Wide-Angle Visible Light Lens | Effective Pixels: 48 MP |
| Tele Visible Light Lens | Effective Pixels: 48 MP |
| | Optical Zoom: 10x |
| | Hybrid Zoom: 160x |
| IP Rating | IP43 |
| Positioning Accuracy (RTK) | Vertical: 1.5 cm + 1 ppm |
| | Horizontal: 1 cm + 1 ppm |

| S220 | |
|---|---|
| Dimensions (Folded) | 175x272x130mm |
| Dimensions (Unfolded) | 613x699x133mm |
| Wheelbase | 486mm |
| Weight | 1750g |
| Maximum takeoff weight | 2050g |
| Maximum Flight | 38min |
| Max. Ascent Speed | 8m/s |
| Max. Descent Speed | 6m/s |
| Max. Wind Speed Resistance | 12m/s |
| Max. Altitude | 6000m |
| Communication Distance | 15km（FCC） |
| | 8km（CE/SRRC/MIC） |
| Wide-Angle Visible Light Lens | Effective Pixels: 48 MP |
| Tele Visible Light Lens | Effective Pixels: 48 MP |
| | Optical Zoom: 10x |
| | Hybrid Zoom: 160x |
| Infrared Lens | 640×512@30fps |
| IP Rating | IP43 |
| Positioning Accuracy (RTK) | Vertical: 1.5 cm + 1 ppm |
| | Horizontal: 1 cm + 1 ppm |

| S220 PRO (640) | |
|---|---|
| Dimensions (Folded) | 175x272x148mm |
| Dimensions (Unfolded) | 613x699x160mm |
| Wheelbase | 486mm |
| Weight | 1860g |
| Maximum takeoff weight | 2050g |
| Maximum Flight Time | 36min |
| Max. Ascent Speed | 8m/s |
| Max. Descent Speed | 6m/s |
| Max. Wind Speed Resistance | 12m/s |
| Max. Altitude | 6000m |
| Communication Distance | 15km（FCC） |
| | 8km（CE/SRRC/MIC） |
| Lens | Built-in Wide-Angle Lens, Tele Lens<br>Quad-sensor Camera with Infrared Lens and Laser Rangefinder |
| Wide-Angle Visible Light Lens | Effective Pixels: 48 MP |
| Tele Visible Light Lens | Effective Pixels: 48 MP |
| | Optical Zoom: 10x; Hybrid Zoom: 160x |
| Infrared Lens | 640 x512@30fps |
| Laser Rangefinding | 10-1500m |
| IP Rating | IP43 |
| Positioning Accuracy (RTK) | Vertical: 1.5 cm + 1 ppm |
| | Horizontal: 1 cm + 1 ppm |

| S220 PRO (1K) | |
|---|---|
| Dimensions (Folded) | 175x272x148mm |
| Dimensions (Unfolded) | 613x699x160mm |
| Wheelbase | 486mm |
| Weight | 1860g |
| Maximum takeoff weight | 2050g |
| Maximum Flight Time | 36min |
| Max. Ascent Speed | 8m/s |
| Max. Descent Speed | 6m/s |
| Max. Wind Speed Resistance | 12m/s |
| Max. Altitude | 6000m |
| Communication Distance | 15km（FCC） |
| | 8km（CE/SRRC/MIC） |
| Lens | Built-in Wide-Angle Lens, Tele Lens<br>Quad-sensor Camera with Infrared Lens and Laser Rangefinder |
| Wide-Angle Visible Light Lens | Effective Pixels: 48 MP |
| Tele Visible Light Lens | Effective Pixels: 48 MP |
| | Optical Zoom: 10x; Hybrid Zoom: 160x |
| Infrared Lens | 1280x1024@30fps |
| Laser Rangefinding | 10-1500m |
| IP Rating | IP43 |
| Positioning Accuracy (RTK) | Vertical: 1.5 cm + 1 ppm |
| | Horizontal: 1 cm + 1 ppm |

# Company Profile

Founded in 2015, GDU is a leading high-tech enterprise specializing in professional UAV solutions. The company integrates R&D, manufacturing, sales, operations, and data services into a unified business model. Positioned at the forefront of technological advancement, GDU leverages cutting-edge UAV technology, 5G infrastructure, big data, and cloud platforms to drive the development of the low-altitude economy.

Headquartered in Wuhan, GDU has a workforce of nearly 800 employees, with over 60% dedicated to R&D. The Company offers a comprehensive portfolio of UAV solutions, including multi-rotor UAVs, fixed-wing VTOL UAVs, autonomous UAV docking stations, a full suite of mission-specific payloads, and advanced software platforms. These include the UVER Smart Control Platform, multi-dimensional ground stations, a low-altitude operation management platform, and an AI-powered low-altitude command console. GDU's products are distinguished by their three core information security advantages: hardware security, link security, and data security. To date, GDU has delivered automated, unmanned, and customized solutions to thousands of clients in over 300 cities worldwide across various industries.

GDU holds full proprietary intellectual property rights across its entire UAV system portfolio and possesses independent R&D capabilities that span the complete UAV industry chain. With a commitment to cutting-edge technology R&D, GDU currently holds 322 patents, including 202 utility model patents, 58 invention patents, and 91 software copyrights. As a drafting unit to national and industry UAV standards, GDU continuously advances its technologies, products, and solutions in areas such as UAVs, automated UAV docking stations, intelligent payloads, software platforms, and data operations. Through its innovative offering of "automated UAV products + digital multi-sector applications + intelligent data services", GDU aims to apply smart products and services safely.



GDU is dedicated to becoming an expert in professional UAV safety applications and services. Its hardware and software products and industrial solutions have been deployed in a variety of sectors, including smart cities, power grid inspections, smart law enforcement, emergency response and firefighting, event security, intelligent park management, ecological conservation, smart tourism, and vehicle-mounted UAVs. In the fields of low-altitude data operations and urban governance, GDU's full range of UAV products plays a pivotal role in driving the digital transformation of city management, contributing to empowering new quality productivity and achieving high-quality development, making it a leader in the low-altitude economy in China.

Embodying the values of stability, reliability and craftsmanship, GDU remains committed to advancing the global technological revolution in professional UAV safety, expanding into industrial segment application markets in line with the industrialized and scaled development routes. Furthermore, GDU will actively drive the commercialization of cutting-edge technologies, such as UAVs + docking stations + 5G / AI / IoT / cloud computing. By collaborating with global partners, GDU is shaping the future of the low-altitude economy, where technological breakthroughs consistently exceed expectations.

**58**
Patents

**202**
Utility Model Patents

**61**
Appearance Patents

**91**
Software Copyrights