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L4 AUTONOMOUS FLIGHT UAV



S400H

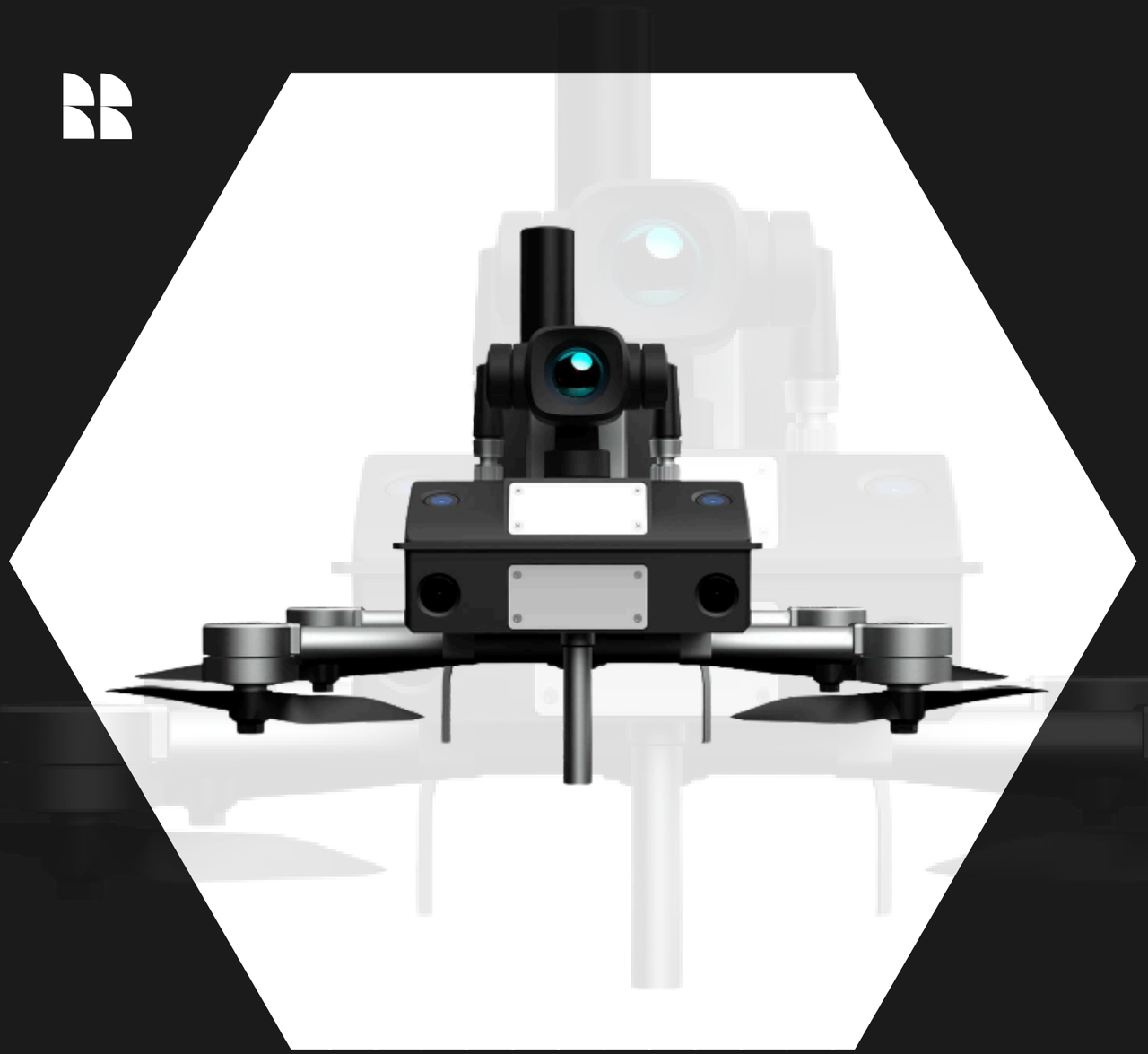
HD Video Transmission Edition

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Introduction to S400H



This UAV is specially equipped with an 8-megapixel high-definition CMOS sensor, combined with an excellent gimbal and video transmission system, providing outstanding image data acquisition capabilities. Benefiting from the built-in active light source, the S400H can rapidly and safely perform high-precision 3D reconstruction and real-time HD image transmission in complex environments.

Even under extreme conditions such as no satellite signal and strong electromagnetic interference, it can perform high-precision navigation, real-time path planning, and autonomous obstacle avoidance flight, demonstrating its exceptional environmental adaptability and intelligent flight performance.

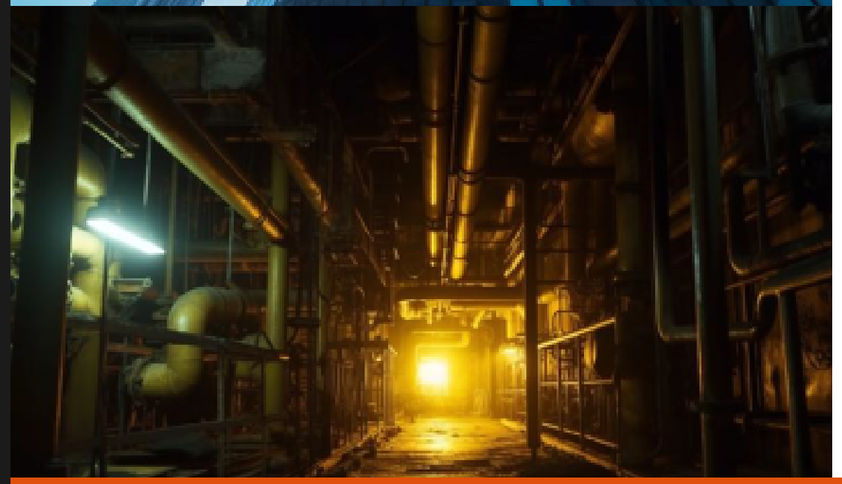
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Core Value

"Autonomous, high-fidelity data capture in GPS-denied and complex environments where other drones fail"

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The S400H is designed to operate in GPS-denied environments such as warehouses and dense high-rise buildings. It efficiently handles tasks from cargo inventory to the precise doorstep delivery of parcels and food, offering a practical solution to the industry's persistent "last mile" problem

The S400H can perform autonomous flight inspection missions in complex scenarios such as substations, subway tunnels, and underground pipe networks. It can quickly identify and locate fault points, while simultaneously transmitting high-definition detailed images of the fault location back to the ground station in real-time, providing direct evidence for decision-making

Application Scenarios



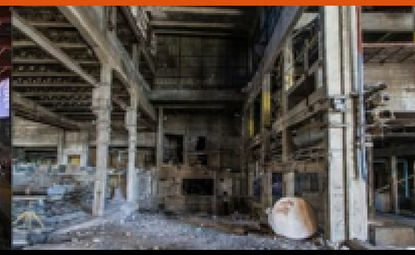
Bridge Inspection



Counter-terrorism in Alleys



Venue Security Inspection



Dangerous Building Survey

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Basic Parameters

Product	Item	Parameters
HD Gimbal & Video Transmission	Lens	Fixed focus, 6x digital zoom
	Image sensor	Sony 1/1.7-inch, Effective Pixels: 8 MP
	Controllable Tilt Range	-135° to +45°
	Controllable Pan Range	-160° to +160°
	Roll Range	-30° to +30°

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Basic Parameters

Product	Item	Parameters
UAV	Intelligent Flight Level	Capable of fully autonomous intelligent flight with spatial environment perception, obstacle identification, and real-time path planning, requiring no pilot control in 90% of complex scenarios.
		Complex environmental conditions include: no satellite signal, strong electromagnetic interference, confined spaces, and complex obstacles
	Takeoff Weight	1370 g
	Dimensions (without protective frame)	386 x 388 x 178 mm (L x W x H)
	Dimensions (with protective frame)	402 x 403 x 178 mm (L x W x H)
	Diagonal Wheelbase	293 mm
	Max Ascent Speed	4 m/s
	Max Descent Speed	4 m/s

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Basic Parameters

Product	Item	Parameters
UAV	Max Takeoff Altitude	4000 m
	Max Hover Time (sea level, no wind)	28 minutes
	Max Obstacle-free Flight Speed	10 m/s
	Autonomous Obstacle Avoidance Flight Speed	0-3 m/s (Speed depends on environmental obstacle complexity)
	Operating Temperature	-15°C to 40°C
	Communication Method	H-mesh Ad-hoc Network / 4G
	Communication Frequency (Ad-hoc Network)	2.4 GHz
	Hovering Accuracy	±5 cm (when visual positioning is active)
	Propeller Size	7 inch

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Basic Parameters

Product	Item	Parameters
Battery	Battery Type	Polymer Lithium Battery
	Capacity	8100mAh
	Nominal Voltage	15.8V
	Charge Limit Voltage	17.8 V
	Charging Temperature	5°C to 40°C
	Max Charge Rate	2C
Charger	Input	AC 100-240V, DC 6.5-30V
	Charging Current	0.1-15 A X 2
	Charging Power	DC 325 W X 2

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This S400H UAV redefines operational possibilities by mastering autonomous flight in the most challenging GPS-denied and complex environments. It delivers critical, high-fidelity visual data reliably, enabling informed decision-making where it was previously impossible. This makes it an indispensable tool for inspection, delivery, and security missions beyond the reach of conventional drones.



More Information:

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