INTELLIFLEYE

L4 AUTONOMOUS FLIGHT UAV

S400A

Gas Detection Version



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Presented By:
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Introduction to S400A

The S400A is equipped with a high-performance gas detection module. It can not only accurately monitor four key gases - carbon monoxide, hydrogen sulfide, oxygen, and methane - but can also be expanded via a customized module to monitor up to 28 different gases, meeting the professional needs of various industries.

Whether in mine tunnels without satellite signals or industrial areas with strong electromagnetic interference, the S400A, leveraging its exceptional navigation technology, achieves precise positioning, real-time path planning, and autonomous obstacle avoidance flight, ensuring the efficient completion of missions



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Core Value

“Enabling Autonomous and Intelligent Gas Detection in Inaccessible or High-Risk Environments”

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The S400A can perform mobile autonomous air monitoring in dense environments like high-rise residential areas, providing accurate data for urban air quality. Simultaneously, it can rapidly detect natural gas leaks, effectively preventing the risk of explosions and fire accidents.

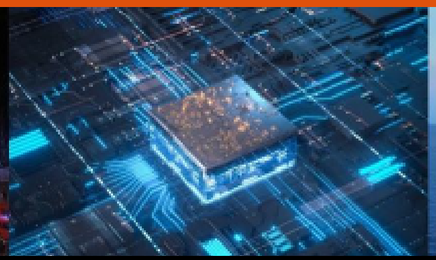


Designed for high-risk areas such as chemical plants and mines, the S400A utilizes mobile monitoring technology to analyze air composition and concentration in real-time, effectively preventing hazardous gas leaks and ensuring safety and health.

Application Scenarios



Emergency Response



Semiconductor Manufacturing



Oil & Gas Platforms



Mine Inspection

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Basic Parameters

Product	Item	Parameters
Gas Sensor	Standard Module Detectable Gases	Carbon Monoxide, Hydrogen Sulfide, Oxygen, Methane
	Expansion Module Detectable Gases (Optional)	Hydrogen, Nitrogen, Ethylene Oxide, Sulfur Dioxide, Nitrogen Dioxide, Hydrogen Fluoride, Phosphine, Hydrogen Chloride, Hydrogen Cyanide, Chlorine, Vinyl Chloride, Nitric Oxide, Benzene, Toluene, Trimethylamine, Styrene, Methyl Mercaptan, Dimethyl Sulfide, Dimethyl Disulfide, Carbon Disulfide, Formaldehyde, Alcohol, Ozone, Ethylene Oxide

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Basic Parameters

Product	Item	Parameters
UAV	Intelligent Flight Level	L4b
	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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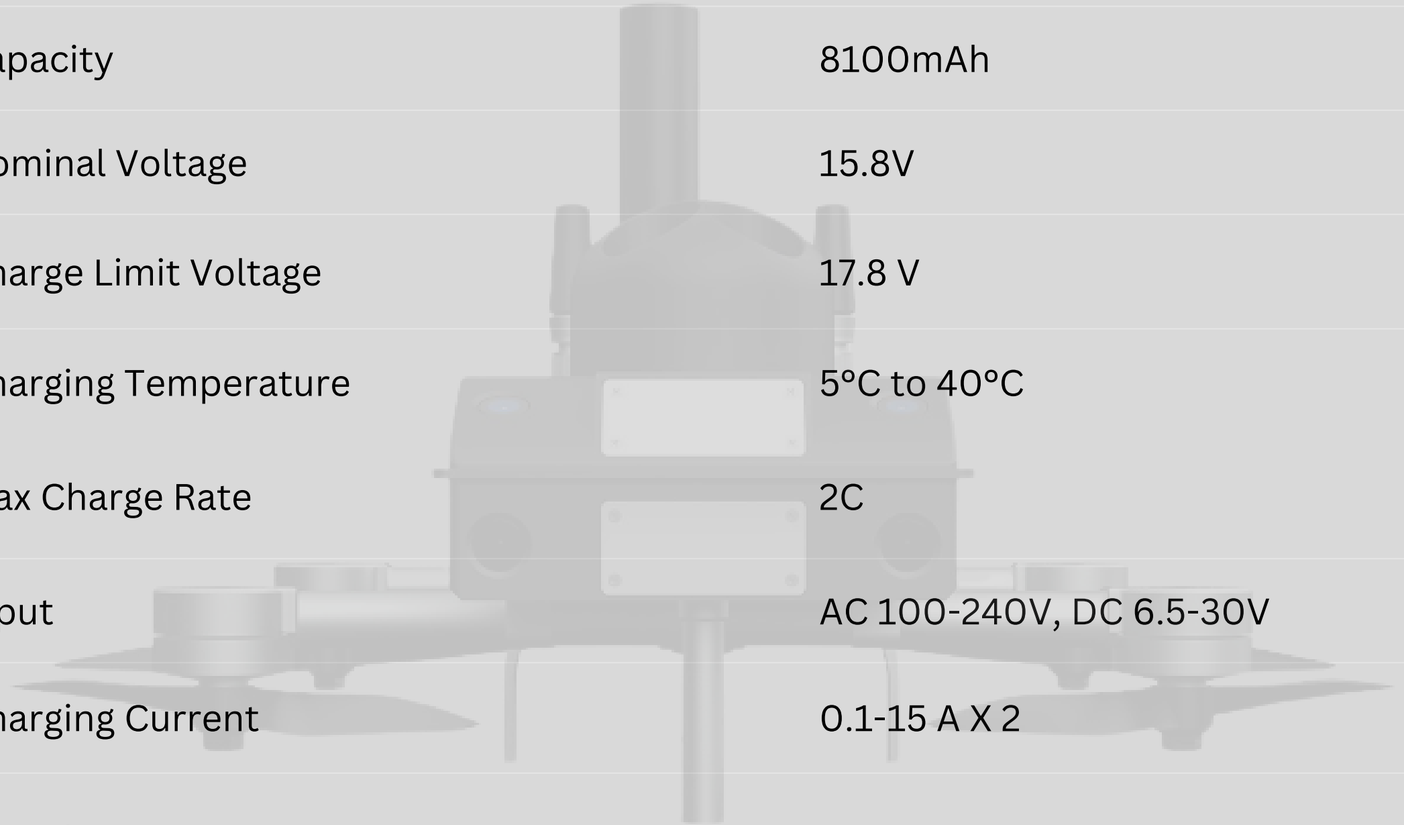
Basic Parameters

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
		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
	Active Lighting	Enabled in complete darkness flight mode): Active lights in front, bottom, and top directions, brightness adjustable.

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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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The S400T is a highly capable, autonomous drone designed for reliable critical operations in the most challenging environments, using its advanced thermal imaging and intelligent flight systems to enhance safety, efficiency, and effectiveness in search, rescue, and inspection tasks.



More Information:

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