INTELLIFLEYE

L4 AUTONOMOUS FLIGHT UAV



S400T

Thermal Imaging Version

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Presented By:
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Introduction to S400T

This UAV is specially equipped with a high-resolution 640x512 thermal imaging camera, supporting three image modes: black hot, white hot, and pseudo color. It can perform temperature measurement within a range of -20°C to 150°C, with a measurement error of only ±3°C. The S400T is suitable for various scenarios and all-weather monitoring, capable of promptly identifying and discovering potential risks.

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 excellent environmental adaptability and intelligent flight performance.

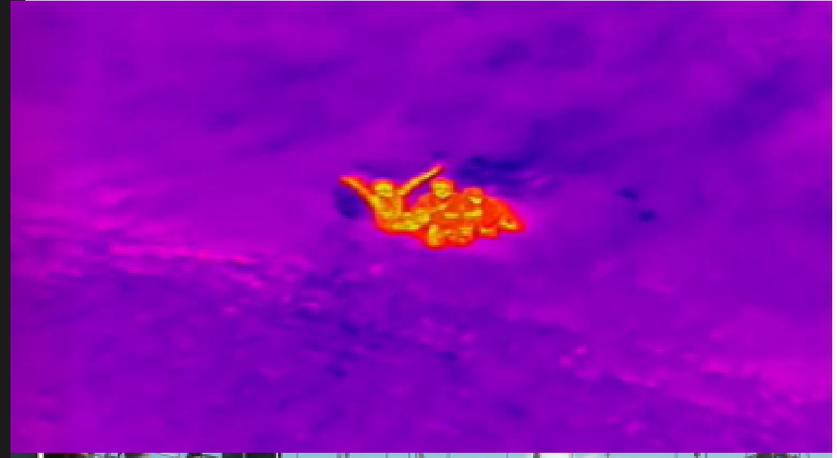


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Core Value

"Autonomous, all-weather thermal imaging for critical detection and rescue"

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The S400T can perform search and rescue missions in complex environments such as mines and subway tunnels. Compared to traditional night vision equipment, its high-resolution thermal imaging camera can quickly identify trapped individuals in a more conspicuous manner, greatly saving precious time for rescue operations.

During routine inspections in scenarios like GIS substations, the S400T can promptly detect abnormal heat sources, enabling potential faults to be quickly identified and handled, thereby minimizing losses as much as possible.

Application Scenarios



Fire Warning



Indoor Search and Rescue



Chemical Pipeline Inspection

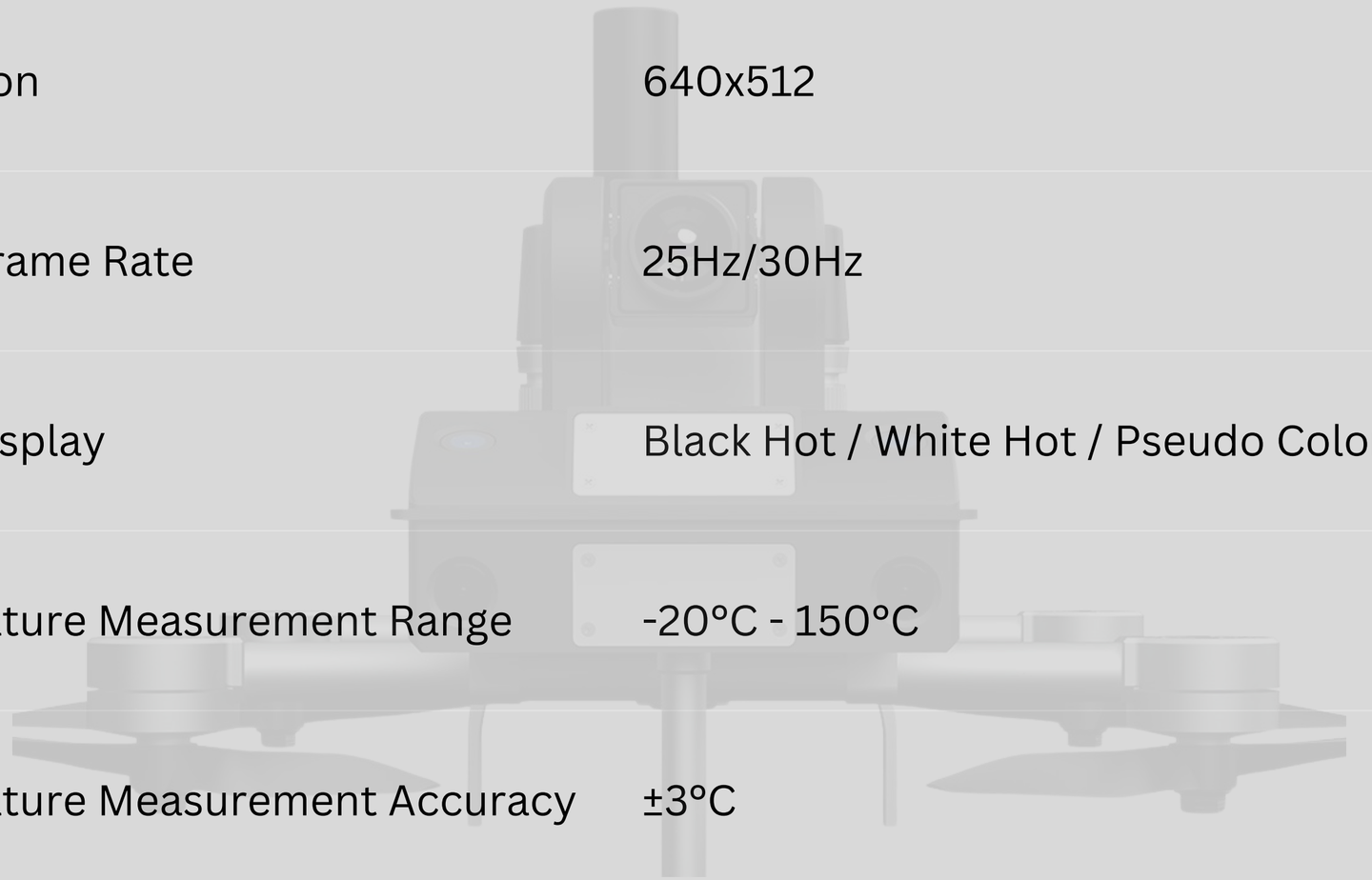


Power Station Inspection

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Basic Parameters

Product	Item	Parameters
HD Gimbal & Video Transmission	Resolution	640x512
	Digital Frame Rate	25Hz/30Hz
	Image Display	Black Hot / White Hot / Pseudo Color
	Temperature Measurement Range	-20°C - 150°C
	Temperature Measurement Accuracy	±3°C



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Basic Parameters

Product	Item	Parameters
UAV	Intelligent Flight Level	Capable of fully autonomous intelligent flight in 90% of complex scenarios without pilot control, featuring spatial environment perception, obstacle recognition, and real-time path planning. Complex environmental conditions include: no satellite signal, strong electromagnetic interference, confined spaces, and complex obstacles
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	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:

Visit Website
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