System Introduction

Parameter Name			Tech Parameters
	Mechanical Transport si		≤2820*2300*1400mm (L*W*H)
Intelligent Airport Cabin	parameters	Weight	≤1500kg
	Environmental perception	Environmental	Support the collection of
		perception	environment temperature, humidity
			and wind 220VAC
	Electrical parameters	Input voltage Power	5000W (with temperature control
		consumption	module)
		Charging power	20A
	Other	Deployment time	5min
VTOL Fixed- wing UAV	Size		Wingspan: 3200mm
	Operation radius		Fuselage Length: 1780mm
			\leq 45km (below 1000m @ standard load 25°C ground wind 2 lovel)
	Endurance		load, 25°C, ground wind 3 level) ≤85min (below 1000m @ standard
			load, 25°C, ground wind 3 level)
	Standard load		≤1.5kg
	Max. wind resistance		4 level
	Takeoff and landing accuracy		Horizontal ≤0.6m
		;	
Payloads	PTZ	Frame	Triaxial stabilization
		Stability accuracy	≤0.03°
	Visible light	Lens	30x zoom
	camera	Video output	2MP, 1080P 30Hz
	Infrared camera	Resolution	640*512
	(optional)	Wavelength	8~14μm
		Communication	RS232 ≤50W@12V
	External	interface	
	interface	Electrical	
	interface		
	W/	parameters	
Communication Link	Working frequency		1430~1444MHz, ≤6Mpbs
	Max. intervisibility distance		≥50Km @ intervisibility
	Power consumption		≤20W
	Transmitting power		33dBm
Remote Transmission	Communication mode		4G
	Video input		1080p/720p
	Network interface		TCP/IP、HTTP, etc.
Working Environment	Working temperature		0~45°C, -10°C~55°C (with
			temperature control module)
	Storage temperature		-20°C~60°C (without battery)
Monitoring Software	UAV control software		During the operation, the battery
			status and aircraft status are
			monitored in real time to control the
			UAV operation
			Real time statistics of the status of the
50100410			
Soloware	Airport con	ntrol software	cabin and its surrounding



The system has the functions of unattended, remote conautomatic trol, charging, automatic withdrawal, environmental awareness, etc., which can meet the needs of long-distance and UAV large-scale survey and monitoring in border inspection, forest fire prevention, pipeline inspection and other

VTOL Fixed-wing UAV Unattended System



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Routine inspection

Intensive monitoring

Fixed point monitoring

Mobile monitoring

Pipeline inspection

Power inspection

Traffic monitoring

Emergency monitoring

Application Scenarios



River environment inspection



Border security inspection





Highway inspection

City security inspection



Oil pipeline inspection



Power channel inspection



Forest fire inspection

Advantages and Characteristics

Remote Control

Based on 4G or private network, microwave, etc., the communication between equipment and command center is established to realize unattended.

Security

The system is equipped with professional environmental monitoring unit, and three security strategies are adopted. It's covering the whole operation process. Compared with traditional applications, it greatly reduces personnel operation errors, and improves equipment security.

Cluster Operation

In the future, the application of UAV will tend to multi aircraft cooperation mode. The efficiency of single person commanding a large number of UAVs will be greatly improved, and the convenience of unattended equipment operation is more conducive to the realization of cluster operation.



Unattended

The system subverts the existing UAV pplications. The traditional manual leployment, inspection, planning, withdrawal, charging and other links are all replaced by intelligent airport cabin, and the automatic schedule pperation, fixed point operation and fixed area operation.

Easy Operation

Each UAV does not need to be equipped with a remote controller, pperation and control by one key, which is convenient and efficiency The operation training time is shortened to less than 1 hour to realize quick operation.

Large-scale

The operation mode maximizes the endurance of the UAV. There are 4G / microwave and other modes to adapt to a variety of operation environments, and the deployment cost per kilometer is 1/3 of that of competitors, which is more suitable for large-scale inspection.



Single UAV operation Area inspection







Operation flow