

System Introduction

Parameter Name		Tech Parameters	
Intelligent Airport Cabin	Mechanical parameters	Transport size	≤1900*1700*1100mm (L*W*H)
		Weight	≤600kg
	Environmental perception	Environmental perception	Support the collection of environment temperature, humidity and wind
		Electrical parameters	Input voltage
	Power consumption		2000W/5000W (with temperature control module)
	Charging power		20A
	Other	Deployment time	1min
Withdrawal time		3min	
Multi-rotor UAV	Wheelbase		1195mm (±10mm)
	Operation radius		≤7km (below 1000m @standard load, 25°C, ground wind 3 level)
	Endurance		≤40min (below 1000m @standard load, 25°C, ground wind 3 level)
	Standard load		≤0.8kg
	Max. takeoff altitude		3000m
	Max. wind resistance		5 level
	Takeoff and landing accuracy		Horizontal ≤0.3m
Payload	PTZ	Frame	Triaxial stabilization
		Stability accuracy	0.03°
	Visible light camera	Lens	10x zoom
		Video output	2MP, 1080P 30Hz
	Infrared camera (optional)	Resolution	640*480
		Wavelength	8~14 um
	Megaphone (optional)	Microwave	≥40W, ground control
4G		≥40W, phone software control	
External interface	Communication interface	RS232	
	Electrical parameter	≤20W @12V	
Communication Link	4G	Communication mode	4G/5G
		Video input	1080p/720p
		Network interface	Private protocol, supports TCP/UDP port
	Microwave (optional)	Working frequency	1427~1447MHz, ≤10Mbps
		Working range	≥10km@Intervisibility
Transmitting power	25dBm		
Working Environment	Working temperature		0°C~45°C -10°C~55°C (with temperature control module)
	Storage temperature		-20°C~60°C (without battery)
Monitoring Software	UAV control software		Real time monitoring of battery status, aircraft status, flight control of UAV operation
	Airport cabin control software		Real time statistics of the status of the cabin and its surrounding environment, remote control the airport cabin



The multi-rotor UAV unattended system can storage and charging for UAVs in the wild environment. It has the functions of easy operation, high-precision take-off and landing, remote control, autonomous charging, autonomous power failure, and multiple security strategies. It can solve the problems of users who can't fly, dare fly and can't fly well. It has been widely used in fine, high frequency, remote interactive industry.

Multi-rotor UAV Unattended System



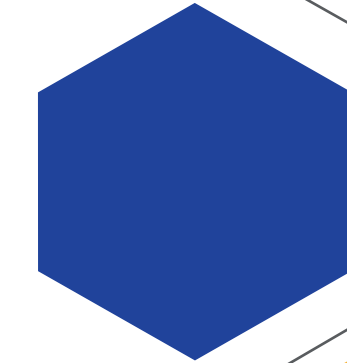
中国航天

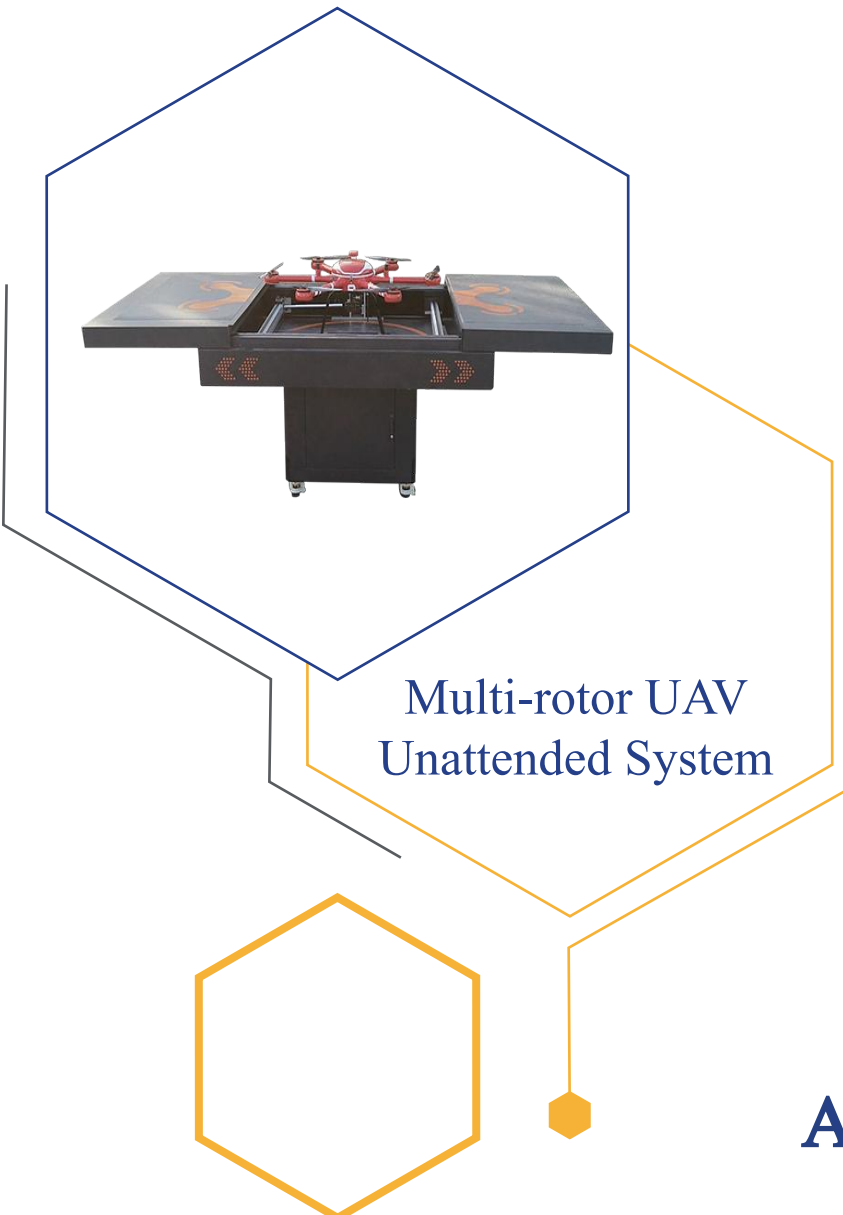
Space Star Technology Co., Ltd (SSTC)

Add: 82 Zhichun Road, Haidian District, Beijing, China
 Postcode: 100086
 Tel: +86-(010-68379381) +86-15522933615
 Web: <http://spacestar.com.cn/en/>



Space Star Technology Co., Ltd (SSTC)





- Routine inspection**
- Intensive monitoring**
- Fixed point monitoring**
- Mobile monitoring**
- Pipeline inspection**
- Power inspection**
- Traffic monitoring**
- Emergency monitoring**

Application Scenarios



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.

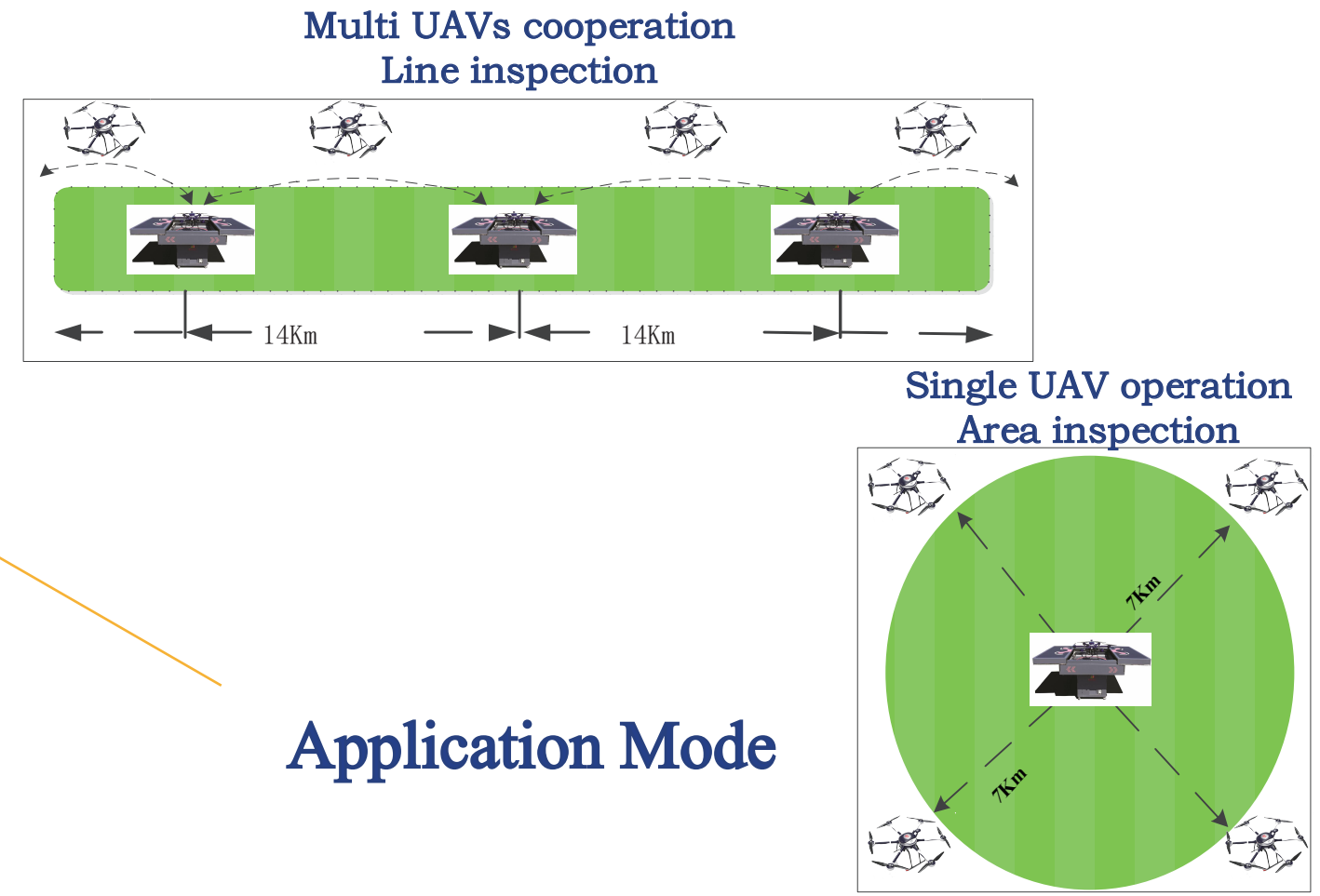
Security
The system is equipped with professional environmental monitoring unit, and three security strategies are adopted. It's covering the whole operation process. Compared with traditional applications, it greatly reduces personnel operation errors, and improves equipment security.

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.

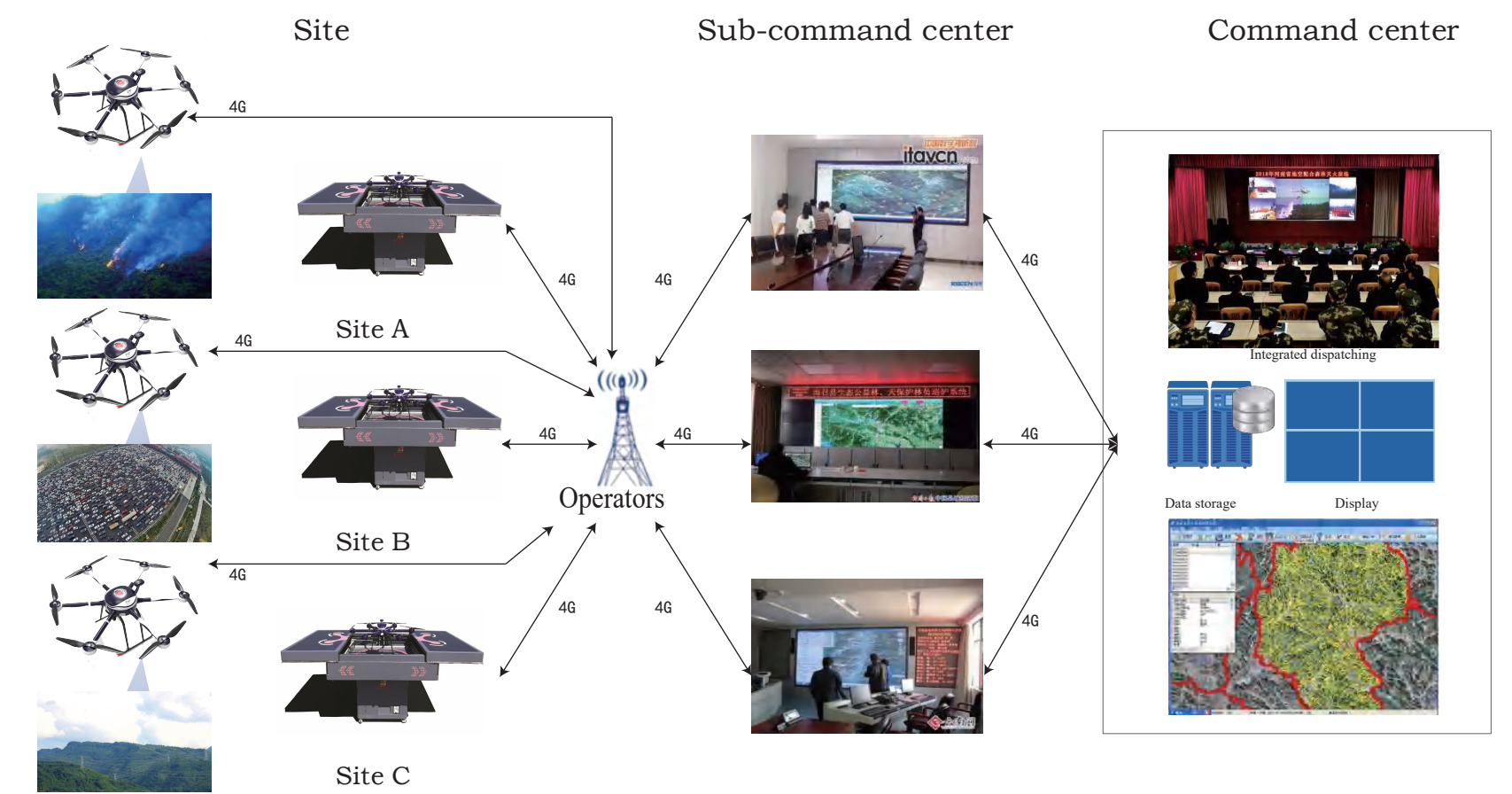
Unattended
The system subverts the existing UAV applications. The traditional manual deployment, inspection, planning, withdrawal, charging and other links are all replaced by intelligent airport cabin, and the automatic scheduled operation, fixed point operation and fixed area operation.

Easy Operation
Each UAV does not need to be equipped with a remote controller, operation 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.



Application Mode



Operation flow