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SABER

- Wingspan：2.5m
- Powertrain：battery & brushless motor
- endurance：120 minutes
- Camera Holder：2 axes stabilization（pitch & roll）
- Launch & recycle：Vertical takeoff and landing
- payload： 1kg Standard, 2kg maximum
- Set-up time：15 miniutes in readiness
- Flight crew：captain（bridle-wise in 48 hours training fly）

The character of Flyto SABER VTOL UAS

module	Component	Unit	character	
SABER Vtol Fixed-wing unmanned aircraft system	SABER Fixed wing unmanned aircraft	set	**Body material**	Carbon fiber, Kevlar, glass fiber composite
			Wingspan	2.5m
			Takeoff weight	6.9kg (min) -8.9kg (max)
			endurance	1, **Fixed wing mode**: 120 minutes 2, **Rotor mode**: 28 minutes
			Ceiling	Altitude≤4000m
			Cruising speed	1m/s-25m/s(Depending on the task mode, fixed-wing multi-rotor simultaneous fusion)
			Max speed	28m/s(**sea level pressure**)
			Max climb rate	6m/s(**sea level pressure**)
			payload	1kg Standard, 2kg maximum
			Launch & recycle	Vertical takeoff and landing
			Tracking accuracy	**Horizontal** 5m
				Vertical 3m
			Measuring radius	20km @ intervisibility
			emergency protection	Low battery protection, GEO fence,
			image format	RAW / jpg+ trigger position
			Airworthiness	Wind resistant to 10m/s
	Autopilot	set	Multi-rotor fixed-wing; intelligent flight;	
	Datalink	set	Micohard 1W Digital radio	
	Powertrain	set	1 × 1000w brushless power (fixed wing) & 4 × 500w brushless power (multi-rotor)	
mapping module	Camera holder	set	2 axes stabilization（pitch & roll）	
	Camera	set	SONY Rx1R m2 （42 million pixels & Carl Zeiss 35mm lens）	
Ground control system	Remote control	set	Futaba-T8fg（Optional）	
	antenna	set	7dbi omnidirectional antenna	
	Charger	set	6cell-300W charger, 24V 12.3A power supply	
	Battery	group	6cell 25C lithium battery, 24V, 22000mAh	

Introduction of Flyto SABER VTOL UAS

Flyto Saber VTOL UAS is an intelligent unmanned Independent research and development by FlyTo Technology Co., Ltd.

SABER is a combined fixed wing and MultiCopter aircraft. This sort of aircraft brings the benefit of vertical takeoff and landing, significantly greater speed and range of travel, and the ability to hover and perform copter-like tasks at the destination.

The autopilot commands the aircraft to take off, land like a copter, and to smoothly transition between the Plane and Copter-like modes. The additional rotors can also provide lift and stability in Plane modes ,that means the plane is much more secure in turbulence. Due to these advantage ,The pilot will focus on the misson rather than operating.

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