

eDrone1



PORTABLE AERIAL PHOTOGRAPHY SOLUTION

■ Lightweight and Integrated Backpack Design: Easy to Carry

Easily carry it by yourself in a variety of complex environment, with total weight less than 14 kg.

■ Unique Design: Sci-fi Look

Experience extreme waist push power, that is, flying power is levelled in the waist.

■ Modular Design: Easy to Assemble and Disassemble

No longer need any tools for assembly and disassembly and quickly finish assembly and disassembly within 2 minutes.

■ Dual Redundant Backup: Escort for Your Safety

Enjoy dual safety systems, in which eDrone1 will automatically switch over to the stand-by system if the active one (built-in system) is not working during flight.

eDrone1 is a small vertical takeoff and landing (VTOL) fixed-wing unmanned aerial vehicle system, and it can be widely used in fields, including aerial survey, agriculture, surveillance, etc. It owns the following outstanding features:

- Full autonomous flight and integrated backpack design, saving labor.
- Creative power management module that the whole unmanned aerial vehicle is powered by one battery, which simplifies the operation process and improves the efficiency of power supply.

Specification

Hardware	
Fuselage	1300 mm
Height	620 mm
Wingspan	2200 mm
Maximum takeoff weight	6.8 kg
Smart battery	18000 mAh
Smart battery charger	1200 W × 2
Radio link	840 - 845 M
Carrying case size	1200 mm (L) × 500 mm (W) × 400 mm (H)

Flight	
Flight endurance	1 hours
Cruise speed	65 km/h
Wind resistance	Level 6 (10.8 - 13.8 m/s)
Water proof	Rainfall capacity ≤ 10 mm / 24h
Take-off and landing	VTOL
Maximum flight ceiling	6000 m
Maximum takeoff altitude	4500 m
Positioning accuracy	<ul style="list-style-type: none"> ■ Vertical: 3 cm ■ Horizontal: 1 cm + 1 ppm

Software	
Flight planning software	eFlight Commander software

Payload	
Mission payload	1 kg

Payload	
	CATCH161
	
Number of CCD	1
Sensor size	35.7 mm × 23.8mm (35 mm full frame)
Effective pixels	61MP
Storage capacity	<ul style="list-style-type: none"> ■ Photo: 256GB × 1 (TF card) ■ POS: 16GB × 1 (TF card)
Working temperature	-20°C - 45°C
Weight	About 290 g (only camera)

The actual performance may vary, due to differences in individual product configuration, software versions, application conditions and environmental factors. This datasheet is only for reference. eSurvey has the right of final interpretation.