

Flight parameters	
Model	AUAV A70
Structure layout	4-axis
External dimensions	3305mm x 3577mm x 850mm (arms and propellers unfolded) 3305mm x 3577mm x 850mm (arms unfolded and propellers folded) 1270mm x 880mm x 880mm (arms folded)
Maximum wheelbase	2628mm
Maximum take-off weight	140kg (spray)
No-load mass (including battery)	67.5KG
Agrochemical container capacity	70L
RTK positioning	Horizontal ± 10 cm, vertical ± 10 cm
No-load hovering time	15.5min
Full-load hovering time	5.8min
Power system	
Motor KV rating	46 (r/min)-V
Motor dimension	140*34*mm
Motor rated power	4650W x 4
Rated RPM	2000r/min
Main rotor diameter	1575mm (62in)
Number of main rotor	4
Main rotor material	Carbon fiber
Energy system - smart battery	
Battery model	HE102 secondary lithium battery pack
Charging voltage	78.3V
Charging current	5C
Discharging current	10C
Battery capacity	30000mAh
Single cell voltage	3.8V
Number of battery cells	18
Battery voltage	68.4V
Working temperature	0 45°C
Charging temperature:	5 ~ 65°C / Discharge temperature:
	-20 ~ 60°C
Battery weight	13.3KG
Battery mounting method	Quick plug battery

Energy system - smart charger

Charger model	HE202 All-in-one charger
Charger input voltage	110Vac-230Vac
Charger output voltage	78.3V (Maximum)
Charger output current	140A (Maximum)
Input frequency range	47Hz-63Hz
Output power	9000W (Direct connection with generator)/ 2000W (Direct connection with mains)
Output channel	1
Protection function	Over-temperature, over-voltage, under-voltage, short-circuit protection function
Operating ambient temperature	-5°C ~ 40°C
Weight	17.6KG

Spraying system

Agrochemical container volume	70L
Agrochemical container material	LLDPE
Nozzle type	Centrifugal nozzle
Total nozzles	Centrifugal nozzles 2/4
Nozzle length	1910mm
Spraying swath	4.5m-10.3m
Atomized particle size	Centrifugal nozzle 50 μ m – 500 μ m
Water pump type	Magnetic drive vane pump
Number of water pumps	2
Maximum flow rate	Two centrifuges 30L/Min Four centrifuges 40L/Min

Remote control system

Model	HD402
Data transmission and positioning	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B8 EVDO/CDMA: BC0 GSM: 900/1800 MHz WLAN: 2.4/5 GHz 802.11a/b/g/n Bluetooth: BT 2.1+EDR/3.0/4.1 LE/4.2 BLE GNSS: BeiDou/GPS/Galileo/GLONASS Radio: 2KM
Image transmission	2.4/5.8G dual-frequency SRRC:>3Km CE:>3Km
GPS point device	FCC:>2.5 km (drone flying 2.5m, without interference) GNSS: BeiDou/GPS/Galileo/GLONASS Positioning accuracy: DGNSS 0.5m RTK 0.02 m +1ppm
Display	6-inch touch LCD with 1280*720 resolution
Working temperature	-20 ~ 50°C
Charging ambient temperature	0 ~ 45°C
Built-in battery life	5h
External battery life	2h
Number of external batteries	2
Charging power	External: 33.6W/8.4V/4A*2 Built-in: 65W Max
Charging method	External: cradle Built-in: TYPE-C

Sensing system - camera

Front monocular	Virtual gimbal camera
Resolution	1920*1080
Field of view	Horizontal 80°, Vertical 120°
Night vision	Support

Sensing system - radar

Set height range	Height measurement range: 1-60m
Set height range:	0.5-30m
Obstacle avoidance range	Obstacle avoidance distance (horizontal): 1-50m View-angle coverage (3db) : horizontal 50°, vertical 10° Use conditions: drone flight relative height above 3m and speed < 13.8m/s Safety distance: 2.5m (distance between the propeller tip and the obstacle after the drone brakes and hovers stably)
