

AresX™ Drone

Small Four-Rotor Surveillance UAV system



AresX™ NV Eagle-1500 is a multi-rotor surveillance UAV with advantages of simple construction, high-strength in fuselage, quick disassembly, and space-efficient. The whole mechanical body adopts all-carbon fiber material, ensures the reliability and high-strength of the connection between arms and the fuselage.

It can be used in many law enforcement departments such as public security, anti-terrorism, transportation, fire protection, border defense, electric power, and environmental protection.

Features & Advantages

Super long-duration, good waterproof & wind-resistant performance, long range flight, optional optical zoom, high definition 1080p lens, as well as multi-purpose module equipment as call-out module, air delivery module, high altitude lighting module, gas monitoring module, infrared thermal imaging module and so on. Quick module replacement ensures good mobility.

Box type transport, be able to be consigned by air; convenient pluggable structure; complete take-off preparation within 3 minutes.

Adopt the modular design idea, payload modules include multiple types as visible light, infrared and megaphone to meet the demands of different industry users.

The system experiences sensor, high humidity, salt-mist, extreme cold and extreme hot tests prior to delivery to ensure service safety under extreme environment. Enable the UAV to fulfill the task under severe weather such as high altitude, strong wind and moderate rain.

UAV platform could achieve multiple functions with different payloads to meet user needs in different scenarios, and provide customized services for industry users.

SPECIFICATION

AIRCRAFT PLATFORM	
Typical Dimension	1853*1853*470mm (including paddle)
	1269*1269*470mm (without paddle)
Bare Weight	9.3 kgs (with battery)
Maximum Take-Off Weight	15 kgs
Control Radius	10 km
Max. Payload Weight	5 kgs
Cruise Duration	45 min (3kgs payload)
Cruising Speed	50 km/h
Maximum Cruising Speed	72 km/h
Maximum Climbing Speed	5 m/s

AresX™ Drone

Small Four-Rotor Surveillance UAV system

Maximum Take-Off Altitude	4000 m	
Hovering Accuracy	level ± 1m, vertical ± 0.5m	
Typical Mission Payload	Visible light/Infrared/Megaphone	
Wind Resistant Ability	5 level (normal case)	
Rain Resistant Ability	Moderate rain flight	
Structural Life	≥ 100 sorties	
Body Material	carton fiber	
Failed-Safe	Data link abnormal-automatic return Lose satellite signal-land in situ Low power-automatic return	
PLAYLOAD TYPE - Visible Light		
Dimension	105*115*85 mm	
Weight	262 g	
Sensor	CMOS, 1/2.33" maximum pixel: 12.76 million, effective pixel: 12.40 million	
Lens	3.5x optical zoom lens, 22-77mm equivalent F2.8 (wide angle) - F5.2 (telephoto), FOV 92° (wide angle) 35° (telephoto)	
PLAYLOAD TYPE - Infrared		
Angle of Pitch	10° ~ 90°	1) be able to configure with or without PTZ according to demand 2) auto brightness & contrast 3) infra load without PTZ has laser lighting can be opened or closed manually 4) Infra load with PTZ has the capacity of target locating and tracking
Azimuth	n×360°	
Image Resolution	640×512	
Target Recognition Distance	≥300m (relative humidity ≤60%, visibility ≥2km, temperature different ≥5k, armed solidier)	
Electronic Magnification	≥2x	
NETD	<100mk (F=1)	
Compression System	H.264	
PLAYLOAD TYPE - Megaphone		
Weight	680 g	
Wireless Transmission Distance	≤ 15km	
Megaphone Power	≤ 100W	
Megaphone Distance	450m without wind 550m following wind	