

AresX™ Drone

Small Six-Rotor Surveillance UAV system



AresX™ NV Eagle-1100 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, and the arm joints adopt the anti-misconnection structure to ensure accuracy and precision. The pull-out & plug-in composite locking structure 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 survey camera 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.

One-click route planning, full-automatic DOM, DEM, DSM and 3D image generation.

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	1733*1733*470mm (including paddle)
	1283*1283*470mm (without paddle)
Bare Weight	9.6 kgs (with battery)
Maximum Take-Off Weight	11 kgs
Control Radius	10 km
Max. Payload Weight	1.5 kgs
Cruise Duration	45 min (1.5kgs payload)
Cruising Speed	50 km/h
Maximum Cruising Speed	72 km/h

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Maximum Climbing Speed	5 m/s	
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	
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 soldier)	
Electronic Magnification	≥2x	
NETD	<100mk (F=1)	
Compression System	H.264	
PLAYLOAD TYPE - Camera		
Brand	Sony	
Sony Type	DSC-RX1RM2	
Type of Photosensitive	CMOS	
Sensor Size	35mm full frame	
Pixel Size	4.5µm	
Pixel	42.40 million (7952×5304)	