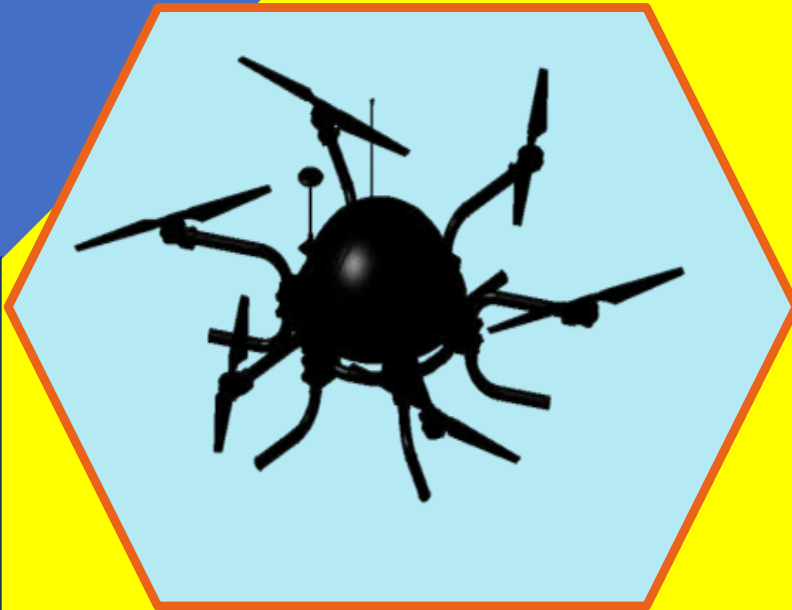




End to End *Drone* Solution

Hawk4G/5G[®] Survey

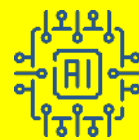
End-to-End solution for Surveying and Accurate Mapping



Hawk 4G/5G Survey



<3.4Kg



**350 Acres
per Flight**



**Single Pilot
Operation**



45 Mints



Ground Control Station Software



Introduction

Free GCS platform built for drone pilots by drone pilots.

GCS Platform is supported by all the major Android based devices like Here Link, Cell Phones, Tablets, MK15, etc.

Scalable



NextConsole

Remote Control of Cameras

Automatic Data Logging

Pilot Authorization

Fleet Management

Live Video Feed

Drone Health Monitoring

Quantum keys Encryption

Video processing using AI




The NextConsole is a cloud-based web application for your Control Center – granting you control over your entire fleet of drones from the comfort of an office. A vast range of features provides flexibility and the power to efficiently integrate aerial data into business operations.

 +91.7338554030

 ams-india.co.in

 sales@ams-india.co.in

 Peenya, Bengaluru, KA.560058...

Technical Specifications

1. UAV Parameters

S. No.	Specifications	
1.	UAV Type	VTOL Hexcopter
2.	Operational Endurance	Up to 45 Minutes
3.	Wind Resistance	Up to 45 Km/Hr (12.5m/s)
4.	UAV Weight	2.7 Kgs.
5.	UAV Dimension	(803 x 803 x 340) mm
6.	Communication and Range	- Telemetry Communication 5.8 GHz - Up to 15 km Locally (Line of Sight)
7.	Data Privacy	End-to-end A rated Encryption
8.	UAV Speed	Cruise: 10 Meters per Second Maximum: 15 Meters per Second
9.	Service Ceiling	2,000 Meters AMSL
10.	Operational Altitude	120 Meters AGL (can reach up to 2,000 Meters AMGL with required permissions)
11.	Multi-Payload Capability	Available
12.	Motor	4 nos. Dust and Water-resistant BLDC Motors
13.	Propeller	Made of Carbon Fibre: 15 inches
14.	UAV Frame	Made of Carbon Fibre
15.	Battery Specifications	Capacity: 42,000 mAh Composition: Lithium Ion Voltage: 25.2 V
16.	Battery Charger	Fast Charging: 75 Minutes Normal Charging: 150 Minutes Power Output: 150 W Power Input: 220V AC
17.	Operating Crew	Max. one person
18.	Ingress Protection Rating	IP 53
19.	Warranty	One Year
20.	Fail Safe Trigger Smart Return to Launch (RTL)	Communication Failure Low Battery Geo-fencing Breach Mission Too Big
21.	Geo-Fencing	Automatic Geo-Fencing Breach – Position Hold
22.	Anti-collision Lights	LED strobes
23.	Auto-Disarming Timeout	10 Seconds

2. Ground Control Station

S. No.	Specifications	
1.	Weight	850 Grams
2.	Dimension	(189 x 138 x 41) mm
3.	Battery Life	10 Hours
4.	Waterproof	IP 53
5.	Screen	5.5" High Brightness HD LCD Touch screen
6.	Application	UMT LaunchPad (UrbanMatrix Proprietary)
7.	Geo-fencing	Yes
8.	Communication and Range	5.8 GHz, 15 Kms. (Line of Sight)
9.	Encrypted Communication	Yes
10.	Video Transmission	1080p Full HD
11.	GSM SIM Card Compatible	Yes
12.	One Click NPNT Approval	Yes
13.	RAM and ROM	2GB and 16GB
14.	Mission Support	Fully Autonomous Survey Missions Altitude Hold and survey Hover at a Defined Waypoint Single Click Geofencing Fixed Path Mission Planning Auto-Take-off and Land Manual Flight Support w/ Video-based Navigation
15.	UAV Parameters Displayed	UAV Location Battery Health (indicator) Covered and Planned Path Camera View Flight Plans Pilot ID and UAV ID UAV Home Location Pre-flight Health Checks UAV Altitude, Speed, Angles
16.	User Controlled Flight Functionality	Take off and Land Hover Yaw, Pitch and Roll

3. NextConsole

S. No.	Specifications	
1.	Multi UAV Support	
2.	Live UAV tracking and monitoring	
3.	End to End encrypted secure system	
4.	Flight Report Generation	
5.	Pilot Access Control and Management	
6.	Real time Health Monitoring	
7.	Real time Anomaly detection	
8.	Flight alerts on email	
9.	Trigger Failsafe actions remotely	
10.	Multiple live terminals	
11.	Image Geotagging support	

4. UAV Payloads

S. No.	Specifications	
1.	RGB Day Camera	24.3MP 1.3" CMOS Sensor Manual and Automated Photo capture facility
2.	Data Storage	SD Card (32GB Camera Storage)
3.	GSD Resolution	<4 cm at 120 meters operational altitude

*Additional Payload options: RGB (36MP, 42MP and 64MP) | Thermal (640 x 512)