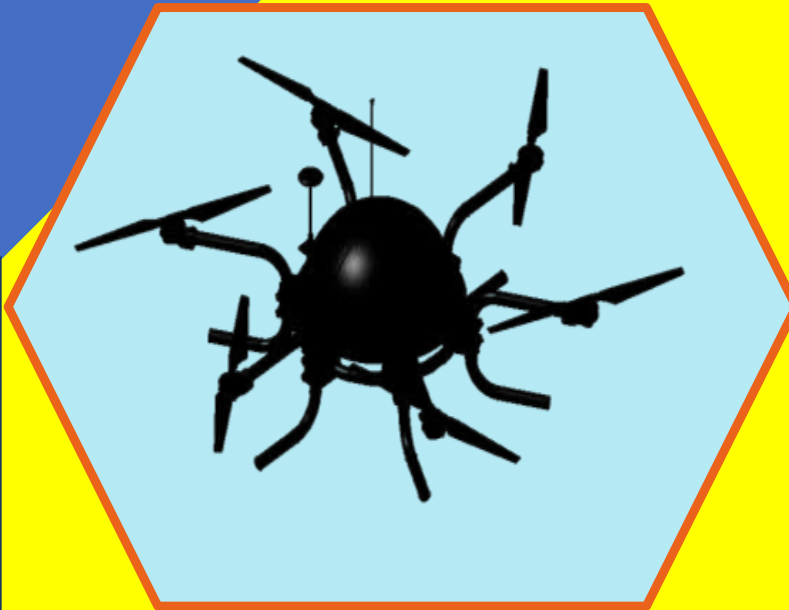




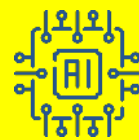
Advance Mechanical **Drones**

Survey Drone

End-to-End Solution for Surveying and Accurate Mapping



<3.1Kgs



**300 Acres
per Flight**



**Single Pilot
Operation**



45 Mints





Mission Planner

Remote Control of Cameras

Automatic Data Logging

Pilot Authorization

Flight Management

Live Video Feed

Drone Health Monitoring

Quantum keys Encryption

Video processing using AI



Mission Planner to manage the drone with ease and precision.

With a wide array of features, this application is perfectly compatible with the Control Centre, allowing the pilot to take control of the drone.

Experience the flexibility and power of the Mission Planner as it seamlessly integrates aerial data into your operations, providing you with the tools you need to efficiently manage and utilize this valuable information.

Say goodbye to the hassle of manual drone control and embrace the future of drone management with the Mission Planner.

Technical Specifications

1. UAV Parameters

S. No.	Specifications	
1.	UAV Type	Multi Rotor Hex-Plus Copter
2.	Operational Endurance	Up to 45 Minutes
3.	Wind Resistance	Up to 45 Km/Hr (6.5m/s)
4.	UAV Weight	9 Kgs.
5.	UAV Dimension	(1300 x 1300 x 350) 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	900 Meters AMSL
10.	Operational Altitude	120 Meters AGL (can reach up to 900 Meters AMGL with required permissions)
11.	Multi-Payload Capability	Available
12.	Motor	6 nos. Dust and Water-resistant BLDC Motors
13.	Propeller	Made of Carbon Fibre: 16 inches
14.	UAV Frame	Made of Aluminium
15.	Battery Specifications	Capacity: 21,000 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	Mission Planner
7.	Geo-fencing	Yes
8.	Communication and Range	5.8 GHz, 12 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	Optional
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 Geo-fencing 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

