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AeroGCS DEFENCE

For Bharat, By Bharat, Securing the Nation's Skies

● Introducing AeroGCS Defence

Marching toward Atmanirbhar Bharat in defence technology, PDRL one of India's most trusted DroneTech innovators, proudly introduces AeroGCS Defence: a mission-ready drone software platform built to protect Bharat's skies, empower our armed forces, and safeguard our borders. More than just a Ground Control Station (GCS), AeroGCS Defence is a strategic digital shield for Bharat.

● Advance Features



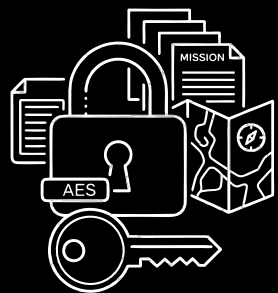
- **Firmware Signing**

Digitally signs drone firmware to prevent tampering and cyber- injection attacks.



- **Encrypted Communication**

All drone GCS communications are secured, eliminating man-in-the-middle attack risks.



- **Data Encryption**

All mission files and maps are secured using AES encryption one of the most trusted standards in defence. Each user gets a unique, password- protected key ensuring file access is restricted and secure.



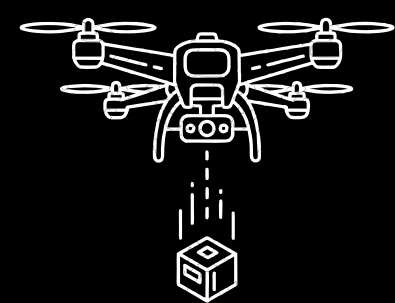
- **Offline Mission Capability**

Execute mission planning seamlessly without the need for an internet connection. with support for pre-downloaded maps and advanced GIS formats including tiff raster maps and vector shape files.



- **Target Location Identification**

Enables operators to mark and manage points of interest with precision and ease. By simply clicking on the live video feed, users can interactively mark targets, with the system automatically calculating the latitude and longitude and placing a corresponding marker on the mission map.



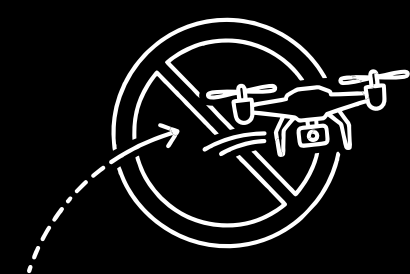
- **Precision Object Drop System**

AeroGCS Defence is equipped with an intelligent object drop system engineered for mission-critical logistics and tactical operations. This enables drones to deliver essential payloads to precise GPS coordinates, even in remote or high-risk zones.



- **Object Tracking in Live Video Feed**

Enhance surveillance and monitoring with intelligent real-time object tracking. Users can define a Region of Interest (ROI) by drawing a rectangle around an object directly on the live video feed. Once selected, the system automatically tracks the object's movement



- **Red Zone Aware**

AeroGCS Defence is equipped with Red Zone Aware capability, allowing the system to recognize and respect restricted or no-fly zones during mission planning and execution. By integrating airspace restrictions directly into the mission workflow, it ensures drones avoid unauthorized or hazardous areas enhancing safety, regulatory compliance, and operational reliability.

● Other Defence Products

● Defence Flight Controller

The Defence Flight Controller is conceptualized, designed, and manufactured in Nashik; Maharashtra is purpose-built to meet the operational needs of India's defence forces.



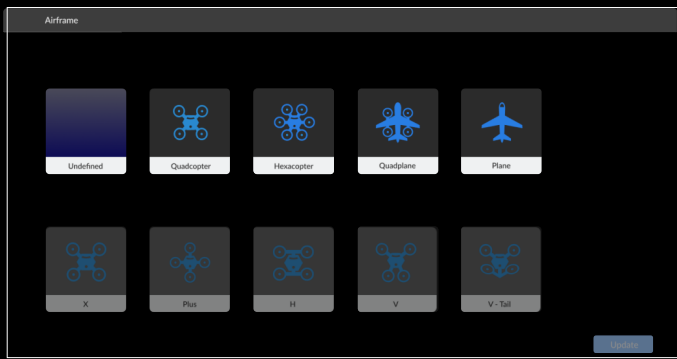
● Navic Based Navigation

AeroGCS Defence paired with NavIC-based Navigation ensures secure, precise, and India-controlled drone operations for defence and strategic missions.



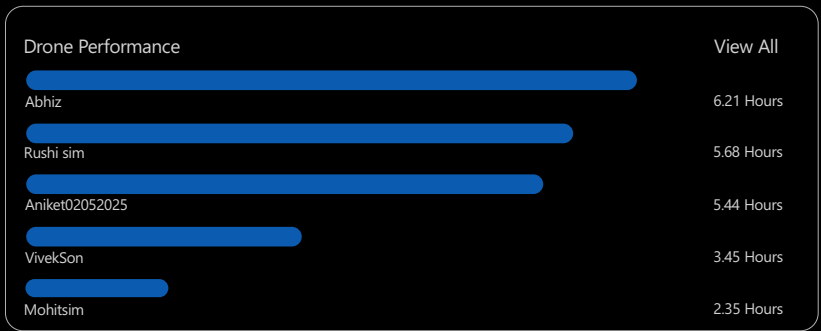
● Drone Configurator

Seamlessly configure your drone and its sub-systems using advanced, industry-preferred software trusted by leading drone manufacturers.



● Command Control Centre

Seamlessly manage your entire drone fleet from a unified dashboard, with real-time insights and complete operational control.





Thank You

KNOW MORE



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