VTOL X MK 2

Engine-Based VTOL UAV

VTOL X MK 2 is an advanced engine-powered Vertical Take-Off and Landing (VTOL) Unmanned Aerial Vehicle (UAV), designed for long-endurance aerial surveillance, reconnaissance, and intelligence-gathering missions. Combining vertical take-off and landing capabilities with extended flight endurance, the platform is designed to operate in areas where conventional runway infrastructure is unavailable or limited.

The platform is designed to support persistent aerial observation, real-time situational awareness, and monitoring of strategically important areas across diverse operational environments.

Key Features & Specifications

Parameter	Description
UAV Type	Vertical Take-Off and Landing (VTOL)
Propulsion	Engine-Based VTOL
Payload Capacity	5 kg
Endurance	Up to 12 hours
Primary Role	Surveillance & Reconnaissance

Application Areas

1. Border Security and Surveillance – Persistent aerial observation of border areas and sensitive locations.
2. Maritime Surveillance – Monitoring coastal regions, maritime zones, and offshore activities.
3. Forest Monitoring – Monitoring forest areas, detecting unauthorised activities, and supporting conservation operations.
4. Illegal Mining Detection – Identifying and monitoring unauthorised mining activities over large geographical areas.
5. Defence and Security Operations – Supporting aerial observation and mission-level situational awareness.
6. Aerial Observation – Providing extended aerial monitoring for operational assessment and surveillance.