DRONEYARDS

Fly High Fly Smart

DY VEERGATI



RUDRASTRA XL-VTOL IS A NEXT-GENERATION HYBRID UAV ENGINEERED FOR LONG-RANGE SURVEILLANCE. ITS ADVANCED PAYLOAD INTEGRATION SUPPORTS REAL-TIME INTELLIGENCE.

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CONFIGURATION	
UAV Type	Fixed-Wing Tactical UAV
Wingspan	>3 Meter
Airframe Material	Full Carbon Fiber Composite
Structural Design	Modular Tactical Airframe
Flight Configuration	Fixed Wing
Weather Resistance	Light Rain & Dust Resistant
Operational Range	40 km One-Way
Maximum Speed	200 km/h
Payload Type	Kamikaze
Wind Resistance	Up to 45 km/h
VTOL Motors	High Torque Brushless Motors
ESC Type	High Reliability Military Grade ESC
Battery Type	High Density Li-Ion / LiPo Pack
Camera Type	Dual Sensor EO/IR Stabilized Gimbal
Thermal Detection	Human & Vehicle Detection

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CONFIGURATION	
Video Transmission	Real-Time Encrypted Feed
Recording Capability	Onboard HD Recording
Image Stabilization	Electronic + Mechanical
Target Lock	Supported
Payload Mechanism	5 Kg Explosive
Payload Capacity	Light Rain & Dust Resistant
Flight Controller	Advanced Autonomous Flight Computer
Navigation Modes	Manual / Stabilized / Auto
Return-To-Home	Automatic
Position Hold	Supported
Telemetry Type	Long Range Encrypted Digital Link
Video Transmission	HD Real-Time Transmission
Frequency Support	Multi-Band Compatible
Ground Control Integration	Tactical GCS Compatible
Signal Encryption	Signal Encryption

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SAFETY & TACTICAL FEATURES

- Autonomous Mission Execution
- Encrypted Real-Time Video Feed
- Anti-Loss Return-to-Home System
- Precision VTOL Landing
- AI Assisted Tracking & Reconnaissance
- Night Surveillance Capability
- Dual Payload Deployment System
- Carbon Fiber Low Weight Tactical Design
- Real-Time Telemetry Monitoring
- Emergency Flight Recovery Mode
- Silent Long-Endurance Cruise Profile
- Rapid Field Deployment Capability

RECOMMENDED MISSION ROLES

- Tactical Surveillance
- Border Reconnaissance
- Night Operations
- ISR Missions
- Search & Rescue
- Payload Delivery
- Precision Payload Drop Missions
- Area Mapping & Monitoring
- High Altitude Observation
- Strategic Reconnaissance Operations

FEATURES









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