DRONEYARDS

Fly High Fly Smart

# DY SUDARSHAN



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

# DY
# SUDARSHAN

| CONFIGURATION | |
|---|---|
| UAV Type | VTOL Fixed-Wing Tactical UAV |
| Wingspan | 3.5 Meter |
| Airframe Material | Full Carbon Fiber Composite |
| Structural Design | Modular Tactical Airframe |
| Flight Configuration | Hybrid VTOL + Fixed Wing |
| Weather Resistance | Light Rain & Dust Resistant |
| Operational Range | 20 km One-Way |
| Maximum Speed | 100 km/h |
| Payload Type | ISR / Dual Ordnance Drop |
| 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 Combined |
| 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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