



# VAIMANIKA AEROSPACE

A UNIT OF VED PRABHA AEROSPACE PRIVATE LIMITED



Drone for Defence

Drone Taxi



Surveillance Drone



Agriculture Drone



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vaimanikaerospace.com



At **Vaimanika Aerospace**, we are dedicated to revolutionizing industries through cutting-edge drone technology. Our vision is to drive innovation, efficiency, and sustainability by becoming a global leader in autonomous aerial solutions. We strive to transform how businesses operate and tackle complex challenges.

### **Pioneering the Future: Transforming Industries with Innovative Drone Technology**

- **Revolutionize Industries:** Ambition to drive significant positive change across sectors with drone technology.
- **Cutting-Edge Technology:** Commitment to staying at the forefront of technological advancements in drones.
- **Global Leadership:** Aspiring to be a leading global player in the competitive drone industry.
- **Autonomous Aerial Solutions:** Focus on developing autonomous and innovative aerial solutions.
- **Empowering Industries:** Dedication to empowering sectors like agriculture, infrastructure, and emergency services through drones.
- **Innovation, Efficiency, and Sustainability:** Core values guiding product development and business practices.
- **Smarter, Safer, and More Connected World:** Aim to enhance safety, efficiency, and connectivity.
- **Setting New Standards:** Commitment to excellence and trailblazing in the drone industry.
- **Social Responsibility:** Emphasis on ethical and responsible practices in drone technology development and deployment.





At **Vaimanika Aerospace**, we specialize in cutting-edge drone solutions tailored to diverse industries. Our product range includes **Agriculture Drones, Defence Drones, Taxi Drones, Anti-Drone Systems, Surveillance Drones, and Delivery Drones**, designed for precision, reliability, and innovation. With a focus on advanced technology and customization, we empower businesses and governments to achieve unparalleled efficiency, safety, and sustainability. **Vaimanika Aerospace** reDefines the future of aviation with intelligent, high-performance drone systems.



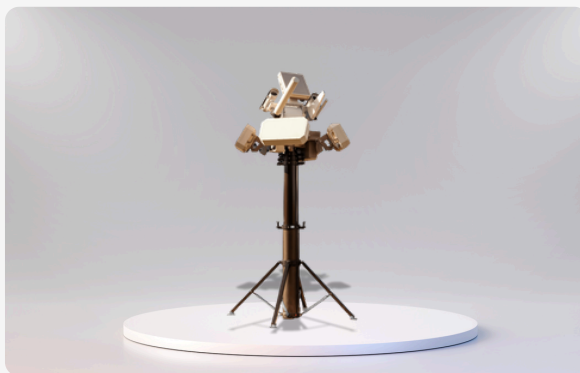
**Agriculture Drone**



**Surveillance Drone**



**Delivery Drone**



**Anti Drone System**



**Taxi Drone**



**Defence Drone**

**OUR PRODUCTS**



# AGRICULTURE DRONE

**Vaimanika Aerospace's Agriculture Drones** revolutionize modern farming with precision technology. Designed for efficiency, these drones offer crop monitoring, pest control, seeding, and irrigation management. Equipped with AI-powered analytics, advanced sensors, and eco-friendly operation, they optimize yield, reduce costs, and support sustainable agriculture, empowering farmers with cutting-edge solutions for smarter cultivation.

## Key Application

- Precision crop monitoring
- Crop health assessment
- Weed detection
- Pest and disease management
- Soil analysis and mapping
- Irrigation management
- Planting and seeding
- Fertilizer and pesticide application
- Yield estimation and forecasting
- Livestock monitoring and management
- Crop damage assessment
- Greenhouse monitoring
- Environmental impact studies
- Forestry and plantation management
- Agricultural research and development

## Market Drivers

- Increasing demand for automation
- Rising precision agriculture adoption
- Need for efficient crop monitoring
- Growing population and food demand
- Advances in drone technology innovation
- Supportive government policies worldwide
- Expansion of smart farming solutions
- Cost-effective farming resource utilization
- Growing adoption in developing regions
- Climate change impacting farming practices
- Rising demand for organic farming
- Increasing venture capital investments
- Integration with AI and analytics
- Growth in sustainable farming methods
- Expanding use in allied industries

## Key Features



**Battery Capacity**  
22,000 mAh



**Charging Time**  
30 - 40 Min



**Spraying Capacity**  
8 Acers per Hour



**Flight Time**  
Up to 15 Min



**Live Video Streaming**  
2MP FPV Camera



**Radar**  
Obstacle & Terrain Radar



**Flying Range**  
Up to 0.6Km



**Capacity**  
10L





# SURVEILLANCE DRONE

**Vaimanika Aerospace's Surveillance Drone** offers advanced monitoring capabilities with real-time video streaming, high-resolution imaging, and AI-powered tracking. Designed for security, law enforcement, and border control, it ensures efficient surveillance with extended flight times, obstacle avoidance, and secure communication, providing reliable, actionable data for critical operations in diverse environments.

## Key Application

- Border patrol and security
- Public safety and law enforcement
- Disaster response and recovery
- Crowd monitoring and management
- Traffic monitoring and management
- Critical infrastructure surveillance
- Anti-terrorism and counter-surveillance
- Environmental monitoring and protection
- Search and rescue operations
- Wildfire monitoring and prevention
- Coast guard and maritime surveillance
- Event security and crowd control
- Monitoring of restricted areas
- Wildlife conservation and anti-poaching
- Emergency medical response and coordination

## Market Drivers

- Increasing security threats globally
- Growth in urbanization and infrastructure
- Rising demand for border security
- Advancements in drone technology
- Government investments in Defence sectors
- Need for real-time monitoring
- Enhancements in drone payload capabilities
- Integration with AI and analytics
- Cost-effective surveillance solutions
- Growth in public safety sectors
- Increased adoption in critical infrastructure
- Rising terrorism and security risks
- Regulatory improvements in drone operations
- Demand for autonomous surveillance systems
- Adoption by law enforcement agencies

## Key Features



**AI Target Recognition and Positioning**



**Infrared Thermal Imaging**



**Long Flight Endurance**  
upto 40 to 70 minutes



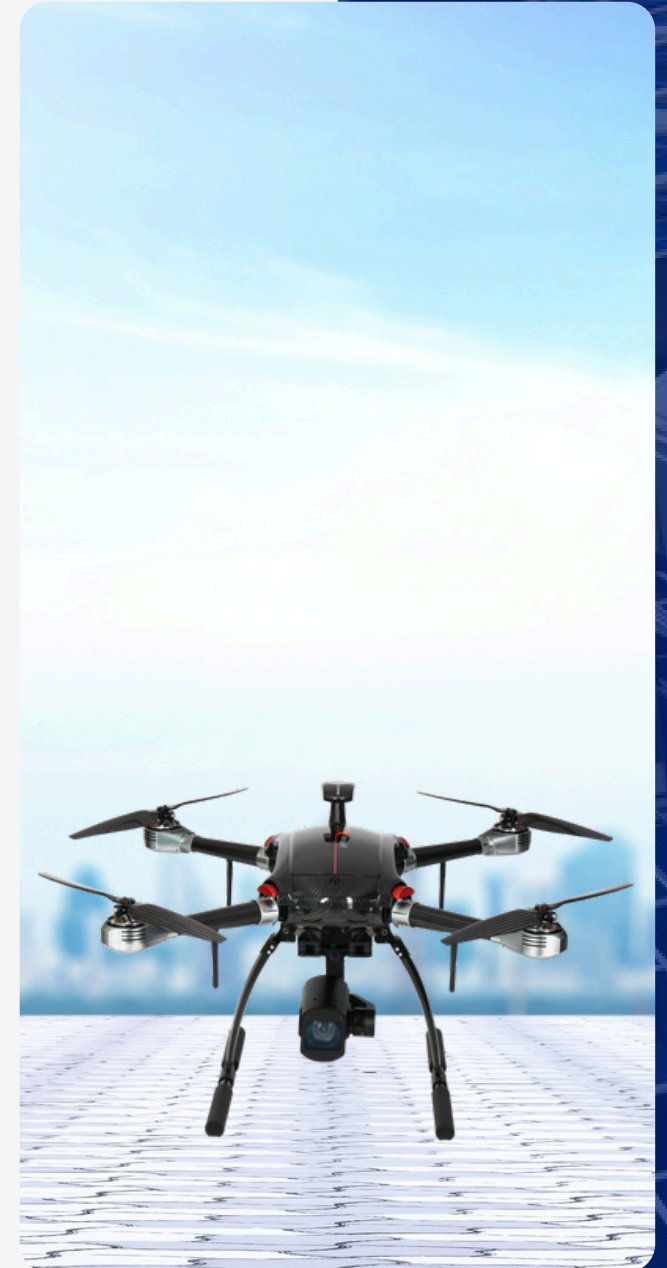
**High-Resolution Image**  
4K Resolution (3840\*2160)



**Three-Way Binocular Vision Obstacle Avoidance**



**Video Transmission Range**  
15 km to 150 km





# DELIVERY DRONE

**Vaimanika Aerospace's Delivery Drone s** offers a fast, efficient, and eco-friendly solution for last-mile delivery. With advanced navigation, obstacle avoidance, and payload capacity, it ensures secure and timely delivery across urban and rural areas. Designed for precision and reliability, our drone revolutionizes the logistics industry, enhancing customer satisfaction and operational efficiency.

## Key Application

- E-commerce package delivery
- Medical supply and vaccine delivery
- Food delivery services
- Postal and mail distribution
- Retail inventory replenishment
- Emergency response and rescue
- Same-day delivery services
- Last-mile logistics optimization
- Drone-based courier services
- Industrial equipment delivery
- Parcel tracking and verification
- Remote area access for deliveries
- Contactless delivery services
- Small and lightweight cargo transport
- Urban air mobility for goods

## Market Drivers

- Growing e-commerce industry demand
- Faster and more efficient deliveries
- Reduced last-mile delivery costs
- Advancements in drone technology
- Increased consumer expectations for speed
- Government regulations supporting drone use
- Enhanced customer convenience and service
- Lower environmental impact compared to vehicles
- Rising demand for contactless delivery
- Technological advancements in battery life
- Expansion of urban delivery networks
- Competitive pressure on logistics companies
- Development of autonomous delivery systems
- Growing infrastructure for drone operations
- Positive public perception of drones

## Key Features



**Maximum Wind Resistance**

16 m/s



**Operating Temperature**

-20°C to 45°C



**Flight Time**

30-160 minutes



**Maximum flight altitude**

6,000 m



**Radar**

Obstacle & Terrain Radar



**Flying Range**

15-80 km



**Capacity**

up to 30KG





# ANTI DRONE SYSTEM

**Vaimanika Aerospace's Anti-Drone System** offers cutting-edge technology to detect, track, and neutralize unauthorized drones. Designed for Defence and security applications, it ensures protection against potential drone threats using advanced radar, signal jamming, and automated response mechanisms. Our system guarantees reliable, efficient countermeasures to safeguard critical infrastructure and airspace.

## Key Application

- Drone detection and identification
- Jamming drone communication signals
- GPS spoofing to disrupt navigation
- Physical drone interception and capture
- Drone countermeasure in critical areas
- Protection of military installations
- Securing airports and airfields
- Shielding government buildings and embassies
- Protecting stadiums and public events
- Preventing drone-based smuggling activities
- Border security and surveillance
- Safeguarding prisons from drone threats
- Counteracting drone terrorism attempts
- Anti-drone protection for infrastructure
- Guarding sensitive industrial sites

## Market Drivers

- Rising threats of drone attacks
- Increased adoption of drones globally
- Growing security concerns at critical infrastructure
- Advancements in counter-drone technology
- Government investments in Defence systems
- Need for airport security enhancement
- Protection of military and Defence assets
- Expansion of drone regulations
- Increased use of drones for surveillance
- Growing concern over privacy violations
- Rising demand for smart city security
- Heightened risks in crowded events
- Growing counter-terrorism strategies
- Increasing use of drones in warfare
- Need for perimeter security solutions

## Key Features



Drone Detection and Identification



Wide Range Coverage



Jamming Capabilities



Real-Time Alerts



Live Integration with Existing Security Systems Streaming



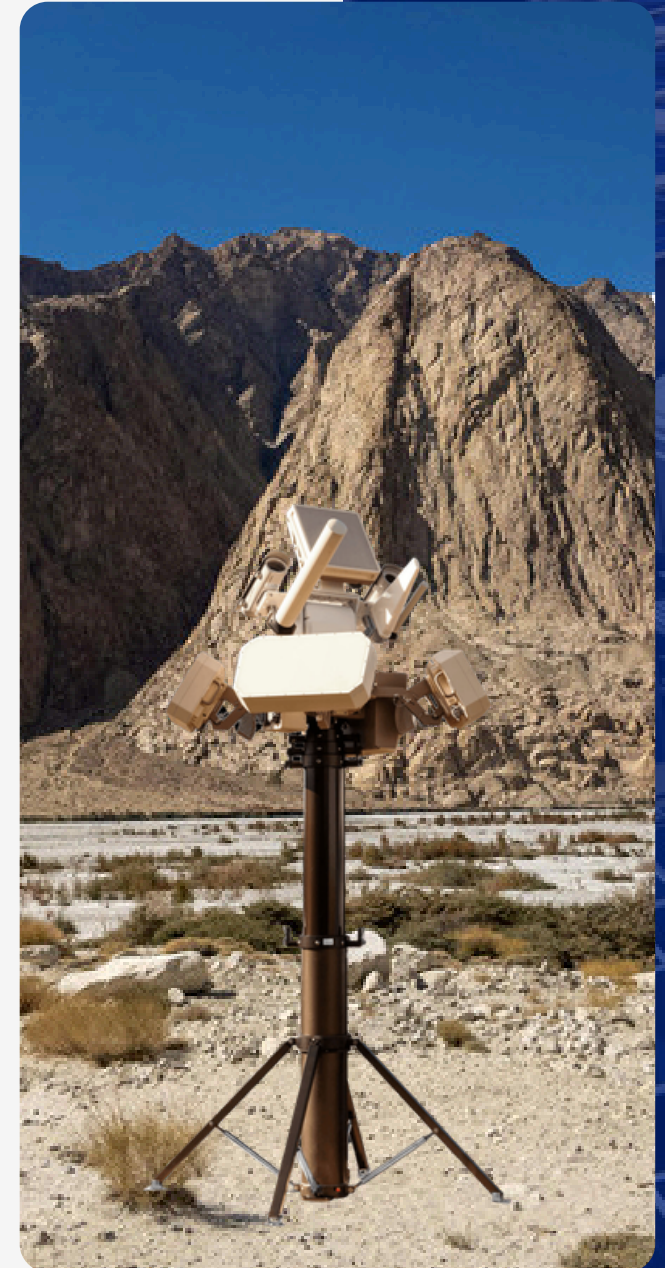
AI-Powered Tracking



Long-Range Targeting



Weather Resistant





**Vaimanika Aerospace's** Taxi Drone is a cutting-edge urban mobility solution designed for seamless, eco-friendly transportation. Featuring autonomous flight technology, advanced safety systems, and a lightweight design, it ensures efficient and reliable passenger travel. With zero emissions, vertical take-off and landing (VTOL) capabilities, and smart navigation, our Taxi Drones offer a futuristic alternative to road congestion.



## Key Application

- Urban air mobility
- Emergency medical transport
- Disaster response and rescue
- Tourism and sightseeing
- VIP transportation
- Traffic monitoring
- Environmental monitoring
- Aerial inspections
- Package delivery
- Smart city integration
- Border surveillance
- Event coverage
- Rural connectivity
- Air taxi services for corporates
- High-risk zone transportation

## Market Drivers

- Urban traffic congestion
- Demand for faster transportation
- Advancements in battery technology
- Growing smart city initiatives
- Rising environmental concerns
- Government support and regulations
- Technological advancements in autonomy
- Increasing investment in aerial mobility
- Growth in the tourism sector
- Cost efficiency of drone operations
- Development of air traffic management systems
- Rising population density in urban areas
- Need for emergency medical transport
- High demand for sustainable mobility solutions
- Integration with IoT and AI technologies

## Key Features



**Maximum Wind Resistance**

16 m/s



**Operating Temperature**

-20°C to 45°C



**Flight Time**

30-160 minutes



**Maximum flight altitude**

6,000 m



**Radar**

Obstacle & Terrain Radar



**Flying Range**

25-250 km



**Capacity**

4 Passenger



**Vaimanika Aerospace's Defence Drones** are cutting-edge solutions designed for surveillance, reconnaissance, and combat support. Equipped with advanced AI, high-resolution imaging, long-range capabilities, and precision targeting, these drones ensure unmatched performance in critical Defence operations. Built for reliability and innovation, they enhance security and operational efficiency in modern military environments.

## Key Application

- Surveillance and reconnaissance
- Border patrol and security
- Target identification and tracking
- Aerial reconnaissance in conflict zones
- Bomb detection and disposal
- Combat operations support
- Electronic warfare
- Anti-drone Defence
- Search and rescue operations
- Tactical communication relays
- Logistics and supply drops
- Precision strikes and drone strikes
- Intelligence gathering
- Area denial operations
- Disaster response and relief

## Market Drivers

- Increased Defence budgets
- Rising border security threats
- Advancements in drone technology
- Growing demand for real-time surveillance
- Need for unmanned combat operations
- Counter-terrorism initiatives
- Enhanced payload capacities
- Integration of AI and machine learning
- Demand for long-endurance drones
- Development of stealth drones
- Rising geopolitical tensions
- Expanding anti-drone systems market
- Use in disaster response and rescue
- Adoption of swarm drone technologies
- Government policies supporting drone deployment

## Key Features



Drone Detection and Identification



Wide Range Coverage



Jamming Capabilities



Real-Time Alerts



Live Integration with Existing Security Systems Streaming



AI-Powered Tracking



Long-Range Targeting



Weather Resistant





# NEWS & EVENTS

Stay updated with the latest news, events, and innovations from Vaimanika Aerospace. Explore groundbreaking advancements, industry insights, product launches, and live demonstrations. Join us at exhibitions, workshops, and special events shaping the future of drone technology and aerial solutions.





# PARTNER & CLIENTS

Our partners and clients include a diverse range of industries, from agriculture and Defence to surveillance and delivery services. We collaborate closely with businesses focused on innovation, efficiency, and technology integration. By providing high-performance drones and customized solutions, we help our partners and clients achieve their goals, enhance operational efficiency, and drive advancements across various sectors.



राष्ट्रीय प्रौद्योगिकी संस्थान गोवा  
National Institute of Technology Goa





## Office Address

### Bihar

- IIT Patna, 5th Floor (Left), Block-9, Bihta, Dayalpur Daulatpur, Patna, Bihar 801106
- Plot No. 570, 10B, Rajendra Nagar Main Rd, Mahmudi Chak, Rajendra Nagar, Patna, Bihar 800016 (Head Office)
- Plot No. C-12, Industrial Area, Phase-1, Goraul, Narayanpur, Bedaulia, vaishali, Bihar 844118 (Manufacturing Office)

### Maharashtra

- Somaiya Vidyavihar, Room No. 520, Bhaskaracharya Building, Vidyavihar, Mumbai, Maharashtra 400077

### Madhya Pradesh

- 104, Capital Hills, Mahabali Nagar, Kolar Road, Bhopal (M.P.) - 462042

### Himachal Pradesh

- Sham Lal Lath, Resident of S/O Banwari Lal Lath, V.P.O Panoh-i (185), Una, Himachal Pradesh - 174303

### Chhatisgarh

- Berla, Bemetara, Chhattisgarh - 491332

### Karnataka

- No. 1289, 1st Floor, 25th Main Road, Jayanagar 9th Block, Bengaluru, Karnataka - 560069



### Vaimanika Aerospace

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