

Ciyes's Aerial Robotics represents the pinnacle of autonomous drone technology. With its swappable payloads and cutting-edge features, this drone is engineered to confidently tackle any operational challenge.

## **YOUR MISSION-CRITICAL AERIAL PARTNER**

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# **CIYES'S AERIAL ROBOTICS**

**Ultimate Autonomous Drone Solution**



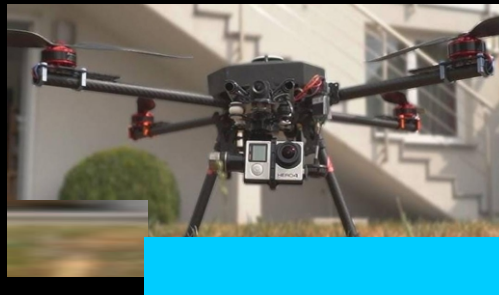
## COMPREHENSIVE APPLICATION DOMAINS

Ciyes's Aerial Robotics is a breakthrough autonomous drone designed to tackle challenges in hard-to-reach locations, revolutionizing precision and efficiency across critical industries. Meticulously engineered for agriculture, security and infrastructure inspection, this drone delivers unparalleled performance and reliability.

## UNIQUE CAPABILITIES

### Swappable Multi-Payload Capabilities

- Effortlessly interchange payloads to adapt to mission requirements
- Supports advanced thermal cameras and specialized sensors
- Flexible configurations including:
  - o Single payload options
  - o Dual payload configurations
  - o Upward-facing gimbal integrations



### Extended Autonomous Mission Features

- Automatic takeoff and landing technology
- Battery hot-swapping for uninterrupted operations
- Comprehensive autonomous flight capabilities:
  - o Waypoint navigation
  - o Pre-scheduled takeoff and landing
  - o Precise hands-free mission planning

### Advanced Safety and Navigation

- Sophisticated obstacle avoidance technology
- Auto-docking for seamless recharging
- Real-time surveillance with integrated features:
  - o Live video streaming
  - o Person/target detection and tracking
  - o Automatic return-to-home safety measures

## DETAILED TECHNICAL SPECIFICATIONS

**Portability:**  
Foldable and lightweight design

**Flight Performance:**

- o Maximum Flight Time: Over 50 minutes
- o Maximum Speed: 20 m/s
- o Service Ceiling: 3,000 meters above sea level

**Environmental Capabilities:**

- Wind Resistance: Stable up to 12 m/s
- Transmission Range: 15 km

**Physical Characteristics:**  
Weight: 3.7 kg (without payload and battery)

### Public Safety

Enhance:

- o Search and rescue operations
- o Firefighting efforts
- o Law enforcement capabilities

### Mapping & Surveillance

Precise aerial data collection for:

- o Urban planning
- o Terrain analysis
- o Border security

### Infrastructure Inspection

Safely evaluate:

- o Power lines
- o Pipelines
- o Wind turbines

### Agriculture

Capabilities include:

- o Crop monitoring
- o Irrigation optimization
- o Vast farmland surveying

### Thermal Imaging

Specialized detection capabilities:

- o Heat signature identification
- o Rescue mission support
- o Wildlife monitoring

## AUTONOMOUS FLIGHT TECHNOLOGY HIGHLIGHTS

- Seamless payload transitions
- Hands-free waypoint navigation
- Intelligent safety protocols:
  - o Automatic home return on:
    - § Signal loss
    - § High winds
    - § Low battery conditions
- Quick battery hot-swapping
- Advanced obstacle avoidance

