



AR ROBOTICS

SECURITY & DEFENSE

UGV FOX

Unmanned Ground Vehicle

TECHNICAL FEATURES

DIMENSIONS & WEIGHT

- Height: 51.2 in (1300 mm)
- Length: 66.9 in (1700 mm)
- Width: 35.4 in (900 mm)
- Track Width: 47.2 in (1200 mm)
- Approach Angle: 30°
- Ground Clearance: 8.7 in (220 mm)
- Curb Weight: 650 lb (295 kg)
- Payload Capacity: 661 lb (300 kg)

MOBILITY

- Propulsion: Dual electric motors
- Maximum Speed: 6.2 mph (10 km/h)
- Operational Autonomy: 6–10 hours
- Battery System: Dual lithium iron phosphate (LiFePO₄) batteries
- Traction System: Tracked or wheeled configuration



The future in surveillance

UGV FOX is designed to redefine perimeter surveillance and monitoring operations across industrial facilities, factories, residential complexes, and other critical environments requiring reliable and continuous security.

By replacing or complementing human patrols, FOX enables persistent, data-driven surveillance with reduced operational risk.

FOX is capable of operating in hazardous environments such as areas with explosion risks caused by gas or fuel leaks, or locations with structural instability. In these scenarios, the vehicle can safely collect critical information and transmit real-time video and sensor data, minimizing human exposure while ensuring situational awareness and operational continuity.

Artificial Intelligence

Beyond core safety functions, UGV FOX can optionally integrate advanced AI analytics to enhance situational awareness and operational control. The system can detect personal protective equipment such as safety shoes, helmets, and goggles; read industrial clocks and temperature gauges; measure boiler temperatures using thermal imaging; recognize products and packaging; perform facial and license plate recognition; and detect perimeter intrusions, damaged or broken fencing, and other anomalies.

Through AI-driven learning models, the UGV can be trained to identify a wide range of objects, behaviors, and operational scenarios, enabling autonomous decision-making and continuous improvement over time.

EQUIPMENT

VISION

52x optical zoom PTZ camera with night vision (150 m)
 Long-range thermal imaging system
 Four fixed cameras providing 360° situational awareness

NAVIGATION

GPS antenna (RTK)
 Anti-collision sensor suite
 Solid-state 3D LiDAR system (360°)

COMMUNICATIONS

RF / Wi-Fi / 4G / 5G connectivity
 Satellite communication antenna
 Two-way (bidirectional) audio system

ENVIRONMENTAL SENSORS

Gas detection sensors
 Oxygen level monitoring
 Temperature and humidity sensors
 Pressure sensors
 Fever detection
 Heart rate monitoring
 Additional sensors upon request

READERS

QR and barcode scanning
 RFID reader
 Additional identification systems upon request

LIGHTING SYSTEMS

High-intensity LED headlights
 Rear LED position lights
 Emergency strobe lights

OPERATION MODE

Autonomous and manual operation modes, with seamless switching between remote control and full autonomy



Benefits

- Protects human lives and safeguards critical assets
- Enhances data collection accuracy and consistency
- Improves operational control and production processes
- Strengthens perimeter and internal security operations
- Learns and adapts to client-specific tasks and workflows
- Eliminates personnel exposure during perimeter patrols
- Operates reliably across all terrains and weather conditions
- Reduces operational disruption caused by staff absenteeism
- Significantly lowers labor and operational costs



Markets

- Industrial facilities and industrial parks
- Forestry operations
- Private security and surveillance companies
- Energy sector: mining, oil & gas, and energy transportation
- Airports and seaports
- Civil forces: civil defense and fire brigades
- Logistics and transportation hubs
- Correctional facilities and penitentiary centers
- Hospitality and entertainment venues: hotels, casinos, theme and amusement parks, stadiums, and large venues
- Gated communities and residential complexes



Support