



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

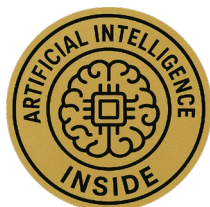


Markets

- 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



AR ROBOTICS

SECURITY & DEFENSE

UGV BULL – Unmanned Ground Vehicle



TECHNICAL FEATURES

DIMENSIONS

Height: 1510mm
Length: 2045mm
Width: 1220mm
Track Width: 1150mm
Front Angle: 30°
Clearance: 400mm

WEIGHT

Weight: 750kg
Load Capacity: 1500kg
Winch capacity: 2000kg
Motorization: 2 electric motors

TECH SPECS

Power: 220CV
Hybrid
Maximum speed: 10km/h
Autonomy: 12 hours (more autonomy option available)
Track: 225mm

OTHERS

Polymers and steel



Multi-platform vehicle

The UGV BULL was designed as a multifunctional platform with **artificial intelligence**, featuring **more than 440 video analytics** for information gathering and decision-making in the field. It is capable of performing logistics-related tasks (up to 500 kg), serving as an exploration vehicle, or acting as a front-line vehicle that transmits live video through its powerful camera with military-grade communications. These key specifications allow the BULL to be used in multiple environments, both in the private and public sectors.

Functions

Limit is your imagination:

- Supplies transportation (up to 500kg)
- Exploring vehicle
- Fronting vehicle
- Communication hub
- Firefighter
- Multiple armament
- Drone launch base
- Crack detection in frozen lands



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SECURITY & DEFENSE

STANDARD EQUIPMENT

VIDEO

4 Fixed cams in 360
1 BIESPECTRAL CAM (Visual + THERMAL)
DVR

NAVIGATION

GPS antenna
Anti-Collision Sensors
RF / WiFi / 4G / 5G
3D LiDAR (optional)

COMMUNICATION

Military Communication System
Bidirectional Audio System (optional)
MESH communication system

ELECTRONICS

On board PC
USB external ports
RJ45 external port
Stand alone video storage

NOTABLE

Gen manual operation
Automatic heating or refreshing system
Airtransportable
Slings kit (optional)
Side trunks

OPERATIVE

All terrain certified
Working temp. : -40°C to 50°C
Hybrid Motor

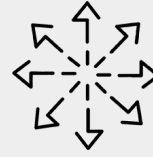
LIGHTING SYSTEM

Nato lights (optional)
Focused LED lights
Rear lights
Front LED lights

REMOTE CONTROLLER

Autonomous driving trough Waypoints
Control case
Short distance control
Target following

Multifunctional control station water, shocks and dust resistant. Quick deployment with a tough and industrial system. It has two screens, joysticks to control the UGV and a robotic arm or other accessory.



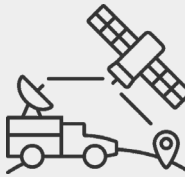
Multipurpose Base

It can be adaptable depending on needs.



Autonomous vehicle

It is capable of autonomously navigating to the target and being observed from a distance taking control if necessary.



Military grade comm system,

enlargement coverage via Mesh. Transfer rate up to 100 Mbps for audio and video.



Multi-Armament

platform is capable to adapt different types of weapons



Support

- Local technical support.
- Special projects.
- Training and coaching.





TECHNICAL FEATURES

DIMENSIONS

Height: 1400mm
Length: 3000mm
Width: 2600mm
Track width: 1500mm
Angle of attack: 40°.
Clearance: 450mm

WEIGHT

1250kg
Load capacity: 3000kg
Dragging capacity: 6000Kg

MOBILITY

Motorization: 2 Electric Motors
Power: 408 HP
Hybrid power supply
Maximum speed: 35km /h
Autonomy: 12hs (optional higher)
Track Tread: 450mm
Air-Transportable: YES

OTHERS

Nato lighting
Hybrid vehicle
Auto internal fire extinguishing.



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SECURITY & DEFENSE

UGV - Unmanned Ground Vehicle



Multiplatform

The UGV Mule was designed as a multifunctional platform with **artificial intelligence**, featuring **more than 440 video analytics** for information gathering and decision-making in the field, was designed as a multipurpose platform that can be transformed as needed, from a logistics platform to a missile launching base, thanks to its robust structure and powerful engines, it can carry more than 2 tons or tow vehicles of 6 tons. Its electronic components platform makes it easy to integrate the software and hardware necessary for any operation.

Functions

- Supply Transport
- Exploration Vehicle
- Demining Vehicle
- Search and Rescue
- Distribution Logistics Chain
- Forward Observer
- Casualty Transport
- Advanced Communication Node
- Fire Outreach UGV
- Missile Base



AR ROBOTICS

SECURITY & DEFENSE

BASIC EQUIPMENT

VIDEO

4 Fixed 360° Cameras
1 Depth Camera
Digital Image Recorder

NAVIGATION

360° Solid State 3D LiDAR
High Centimeter Accuracy RTK GPS
AntiCollision Sensors
RF / WiFi / 4G / 5G

COMMUNICATION

Military Communication System
Bidirectional Audio System
MESH Communication System

ELECTRONICS

Redundant Control Systems
220V Power Generation
External USB Ports
Manual Generator Control Panel
Automatic Heating and Cooling

HIGHLIGHTS

Air-Transportable Integrated Linga Kits
Winch
Side lockers
Central storage lockers

OPERATION

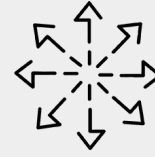
Suitable for all terrain
Operating Temp: -40°C to 50°C (-40°F to 122°F)
Submersible 1000mm (with snorkel accessory 1400mm)

LIGHTING

Natural Lighting LED Focused Lighting
Rear position light
Flashlight Kits (optional)

REMOTE CONTROL

Autonomous Waypoint Driving
Quick Deployment Case
Short Range Control
Target Tracking



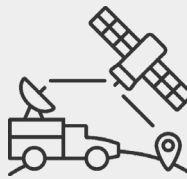
Multipurpose Base with IA

Adapts to the needs of the operation with over 440 built-in video analytics



Autonomous Vehicle

Able to navigate autonomously to the target and be observed from a distance taking control if necessary



Communication System

Military, extension of coverage via Mesh. Transfer up to 100 mbps for audio and video.



Multi-Armament

Its platform can be adapted to accommodate different types of weaponry.



Support

- Local technical service.
- Integration of special projects.
- Training and support.

Multifunctional control station resistant to water, shock and dust. Rapid deployment with a robust Intel i5 system and industrial standard keyboard, it also has two screens, joysticks for control of the UGV and robotic arm or other accessory.

