FRT-737

AUTONOMOUS SECURITY PATROL ROBOT

FRT-737

FRT-737 is an AI-powered patrol robot built for continuous surveillance and rapid threat detection. Designed for airports, government zones, and public spaces, it delivers 360° visibility and secure communication to support law enforcement round-the-clock.

Benefits of FRT-737

Advanced Patrol Intelligence

- 360° AI surveillance with real-time analysis
- Facial and license plate recognition
- Thermal imaging for low-light visibility
- Supports large-area coverage autonomously

Faster Threat Detection

- AI spots abnormal behavior and intrusions
- Sends instant alerts to command centers
- Reduces false positives with edge processing
- Operates reliably in high-traffic zones

Efficient Response System

- Two-way audio for live interaction
- Emergency alerts with precise geolocation
- Quick crowd management and control
- Reliable support for law enforcement teams

Centralized Smart Operations

- Unified dashboard to manage multiple units
- Remote communication and diagnostics
- Seamless integration with security networks
- Scalable for smart cities and critical sites

Airports & Public Safety

AI-powered surveillance

FRT-737 uses a panoramic PTZ camera with AI to deliver complete situational awareness. It captures every angle and event in real time, ensuring nothing goes unnoticed in high-security zones.

AI-Based Threat Detection

With edge AI processing, FRT-737 identifies suspicious movements, unauthorized access, and abnormal behavior instantly. It filters noise and minimizes false alarms for accurate threat detection.

Two-Way Audio & Emergency Alerts

Integrated speakers and microphones enable real-time communication and broadcast capabilities. Respond faster during incidents and guide crowds with voice commands and alerts.

Facial and License Plate Recognition

Equipped with smart recognition systems, the robot scans and verifies faces and vehicle plates. It improves access control and helps security teams track and log activity effectively.

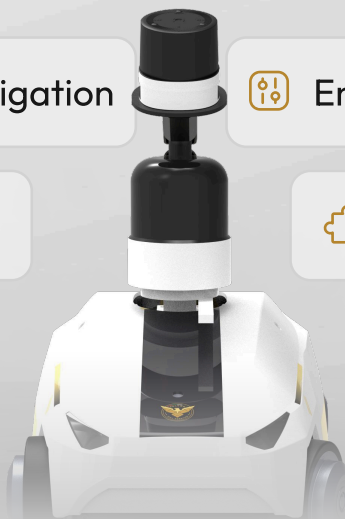# Additional **Features**

- Autonomous and manual navigation
- Encrypted communication network
- Thermal imaging detection
- Cloud-connected surveillance

Airports & Public Safety

FRT-737 elevates airport and urban security by delivering autonomous patrolling, real-time threat detection, and rapid emergency response. With AI-powered surveillance and encrypted communication, it ensures safer spaces, reduced risks, and smarter law enforcement support.

24/7 Autonomous Patrols

- Seamless monitoring across terminals and public zones
- Consistent threat assessment without fatigue
- Reduced reliance on manual surveillance

Faster Emergency Response

- Instant alerts for unusual behavior
- Two-way audio for incident handling
- Supports live coordination with law enforcement

Operational Efficiency

- Automates routine patrols and scanning
- Enhances security staff allocation
- Covers blind spots with precision AI

Data-Driven Intelligence

- Tracks incidents with time-stamped video logs
- Supports investigation with facial and plate recognition
- Real-time data sharing to command centers

Critical Features

- ☑ AI-Powered Threat Detection
- ⚡ Automatic Self-Charging
- ◇ Facial & License Plate Recognition
- ◎ All-Terrain Patrolling Capability

Government & Embassy Security

FRT-737 strengthens government and diplomatic security with smart surveillance, autonomous threat detection, and encrypted communication. It ensures a constant protective presence around embassies, consulates, and government buildings by supporting intelligence teams and reducing risk.

Persistent Protective Presence

- Round-the-clock patrolling around sensitive zones
- Maintains constant watch over perimeters and entry points
- Deters unauthorized access through visible AI monitoring

Secure Communication & Alerts

- Encrypted two-way audio for classified incident handling
- Emergency alert system for rapid command center response
- Discreetly manages real-time interactions during critical events

Access Intelligence & Verification

- Facial recognition for employee and visitor verification
- License plate scanning for secured-entry vehicle checks
- Supports blacklisted individual detection

Operational Autonomy

- Operates independently or with manual override
- Smart route planning based on site-specific protocols
- Reduces human workload while increasing vigilance

Critical Features

- ▯ Encrypted Two-Way Audio System
- ↗ Edge AI Processing for Fast Response
- ◎ Facial Recognition Access Control
- ⚠ Automated Emergency Alert System

Public Events & High-Density Areas

FRT-737 provides active crowd monitoring and real-time incident response during events, protests, and festivals. It helps law enforcement maintain public order with instant alerts, live communication, and AI-driven surveillance that scales with the crowd.

Crowd Behavior Monitoring

- Tracks movement and gathering patterns
- Detects suspicious or aggressive behavior
- Alerts command center in real time

Live Public Communication

- Issues voice alerts via public address system
- Enables two-way communication with field teams
- Helps guide crowds safely in emergencies

Threat Detection at Scale

- Facial recognition to flag known individuals
- Monitors unattended objects or irregular activity
- Supports rapid incident documentation and review

Flexible Deployment

- Operates across varied event venues and open areas
- Runs autonomously for long durations
- Adapts to changing routes and crowd density

Critical Features

- AI Crowd Monitoring System
- Public Address & Communication Module
- Facial Recognition Alerts
- Real-Time Incident Logging

Urban Streets & Border Zones

FRT-737 is engineered for rugged outdoor patrols across city streets, industrial parks, and border regions. With weather-resistant design and smart autonomy, it strengthens situational awareness, enforces perimeter security, and supports ground teams in dynamic environments.

Autonomous Outdoor Patrolling

- Navigates complex urban and border landscapes
- Covers large zones without manual oversight
- Operates day and night in varying weather

Perimeter Surveillance & Control

- Detects intrusions or unusual activity
- Scans for unauthorized vehicles and personnel
- Sends live alerts to nearby security teams

Resilient Field Performance

- IP44-rated chassis for weather protection
- Handles uneven terrain with strong suspension
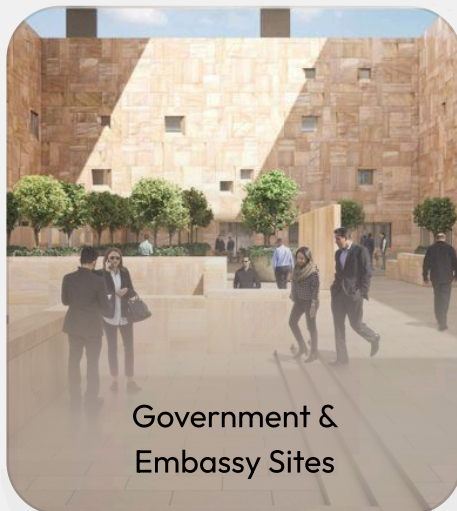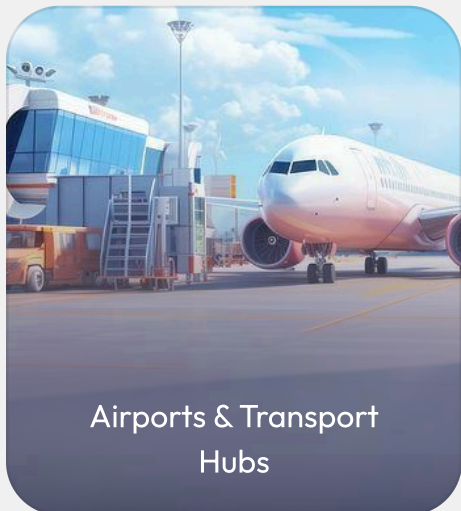- Operates consistently during long shifts

Support for On-Ground Forces

- Shares real-time data and video to command centers
- Communicates with officers during patrol
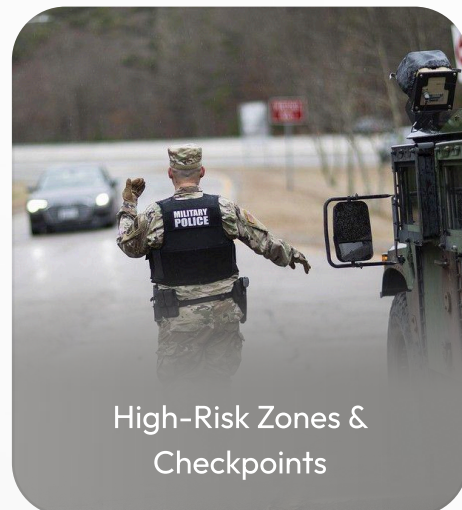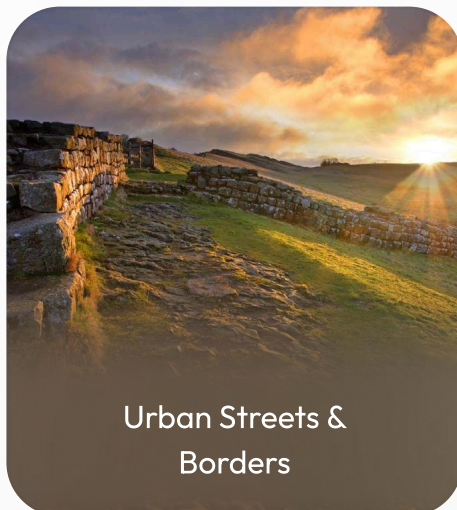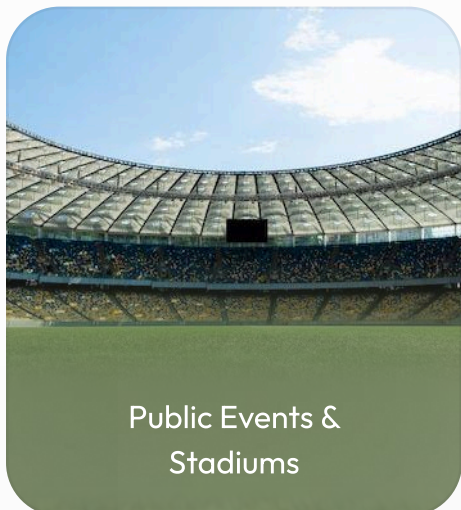- Reduces manpower needs while increasing coverage

Critical Features

- All-Terrain Navigation System
- IP44 Weatherproof Build
- Real-Time Geolocation Alerts
- Autonomous Perimeter Scanning
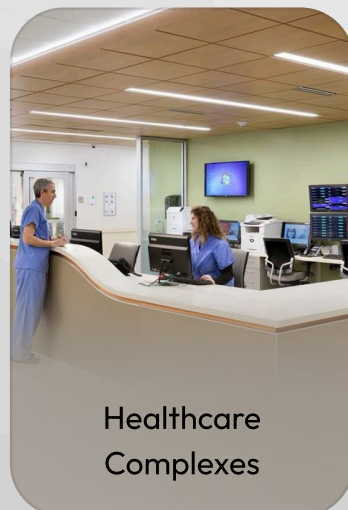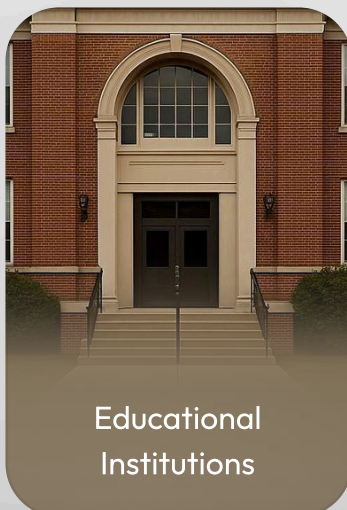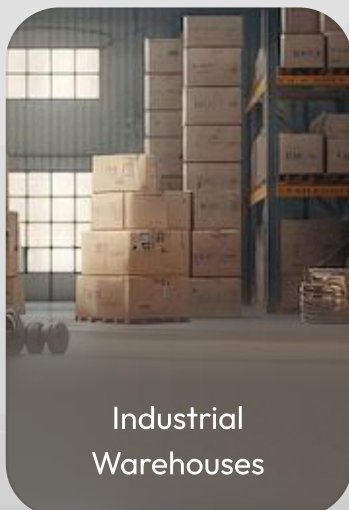
Real World Applications: FRT-737 in Action

Intelligent Surveillance

Airports & Transport Hubs

Government & Embassy Sites

Logistics & Freight Terminals

Dynamic Threat Response

Public Events & Stadiums

Urban Streets & Borders

High-Risk Zones & Checkpoints

Adaptive Security Deployment

Corporate Campuses

Industrial Warehouses

Educational Institutions

Healthcare Complexes
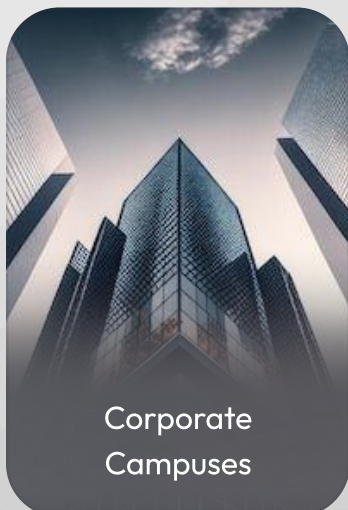
Technical Specifications

Weight 250 kg

820 × 520 mm

1600 mm
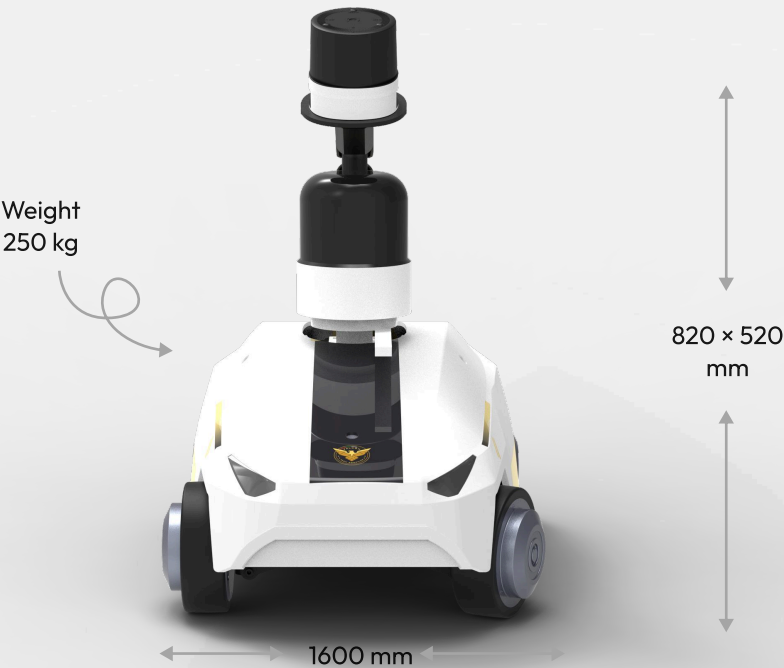
Particulars	Category	Details
Body	Ground Clearance	110 mm
	Climbing Capacity	10°
	Obstacle Height	60 mm
	Protection Level	IP44
Platform	Drive Motor	1800W DC Brushless Motor
	Drive Form	Motor Drive; Steer: Ackermann
	Suspension	Non-independent suspension
	Navigation Modes	Autonomous & Manual
Storage & Memory	Communication Interface	CAN 2.0B
	External Power Supply	48V/10A–24V/15A–12V/15A
	Charging Time	≤4 hours
Camera	PTZ AI Camera	360° coverage, night vision, facial recognition
	Thermal Imaging	Detects heat signatures in low-visibility conditions
Sound	Audio System	Two-way audio & public address system
Connectivity	Remote Access	Encrypted Wi-Fi & 4G LTE
	Cloud Connectivity	Live streaming & remote control
Battery	Type	48V / 40Ah Lithium-ion
	Mileage per Charge	40 km
	Max Speed	18 km/h
	Payload Capacity	300 kg
Sensors	License Plate Recognition	Automatic ALPR
	Facial Recognition	Integrated facial detection
	Threat Detection	AI-powered for anomaly detection
	Edge AI	Local processing for real-time alerts

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