

Mjayeli Security



MJAYELI SECURITY

UASOC Concepts of Operation

Presented To:
Air Service License Council

Prepared By:
Mjayeli Security Team





MJAYELI SECURITY

About MJAYELI SECURITY

Established in 2014, MJAYELI SECURITY is a 100% black-owned and managed company delivering comprehensive security solutions across residential, commercial, and industrial sectors. Our commitment to innovation drives us to integrate cutting-edge drone technology with traditional security services, ensuring unmatched protection for our clients.

Armed & Unarmed Guards



VIP Protection Services



Armed Escort Services



Electronic Guarding



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MJAYELI SECURITY

Core Values

Our foundational principles guide every aspect of our operations, ensuring we deliver exceptional security services with unwavering commitment to excellence. These values define who we are and how we serve our clients across South Africa.



Professionalism



Integrity



Innovation



Customer
Service



Teamwork



Overview of UAS Integration in Security

The private security industry is evolving rapidly, embracing technological advancements to meet modern challenges.

MJAYELI SECURITY integrates cutting-edge drone technology to enhance operational efficiency, reduce personnel risk, and deliver superior surveillance capabilities across all security operations.

Real-Time Intelligence & Surveillance

Our UAS operations provide real-time intelligence support for both armed and unarmed personnel, enabling dynamic, high-quality aerial surveillance that aligns seamlessly with ground-based security teams.

Key Sectors We Serve

Our drone-enabled security solutions provide comprehensive protection across South Africa's most critical industries. From surface and underground mining inspections to stockpile management, we deliver real-time aerial surveillance that enhances safety and operational efficiency in demanding environments.

We leverage cutting-edge drone technology to deliver tailored security solutions for each sector, combining thermal imaging, AI analytics, and live feeds with our experienced ground teams to provide unmatched protection and intelligence.



Mining Sector



Industrial Sector



Agriculture Sector



Residential & Events



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Our Drone Fleet and Specifications

DJI Matrice 210 V2 RTK (x2 Units)
Industrial-grade drone with dual battery system and IP43 weather resistance. Flight time: 27–38 minutes at speeds up to 82.8 km/h. Features dual gimbals, RTK positioning for precision operations, and upward-facing gimbal capability for infrastructure inspections.

Professional Drone Capabilities

DJI Mavic 2 Enterprise Advanced
Compact yet powerful with 640x512 thermal and 48MP visual cameras. Flight time: 31 minutes at 72 km/h. Equipped with spotlight, beacon, speaker, RTK module, and omnidirectional obstacle sensing.



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Scope of Drone Operations

Our drone fleet enables comprehensive security and inspection services across multiple operational domains. From critical infrastructure monitoring to tactical security deployments, our UAS capabilities deliver real-time intelligence, thermal imaging, and high-resolution documentation to support armed response teams and protect assets nationwide.



**Powerline & Rail
Infrastructure**



**Distribution
Station Monitoring**



**Vegetation &
Thermal
Management**



**Construction
Surveying**



**Tactical Drone
Security**



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Powerline & Rail Line Infrastructure Inspections

Powerline Inspection Capabilities

Thermal and HD camera inspections detect corrosion, damage, and hardware faults

Hotspot identification using color-coded detection boxes for rapid fault analysis

High-resolution imagery from multiple perspectives for detailed infrastructure assessment

Rail Line Inspection Services

Comprehensive railway bridge and tunnel inspections with 3D reconstruction

Track monitoring for obstacle detection, geometry analysis, and sleeper damage

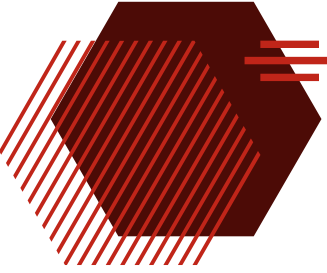
Real-time defect detection supporting proactive maintenance planning

Thermal imaging for night surveillance of energy distribution stations





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Vegetation Management & Construction Surveying

Vegetation Management with Thermal Imaging

Thermal and visual sensors assess overgrowth and fire hazards near critical infrastructure

Color-coded heat signatures identify vegetation risks and potential ignition points

Multi-spectral analysis and comprehensive fire risk assessment capabilities

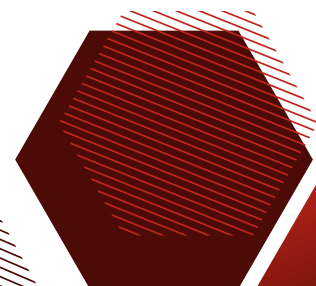
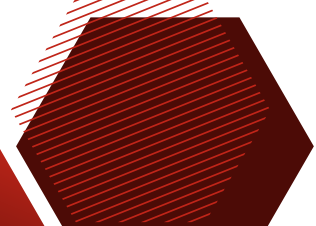
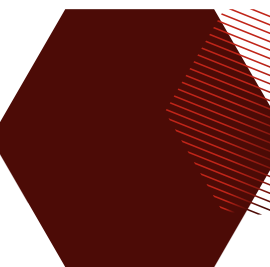
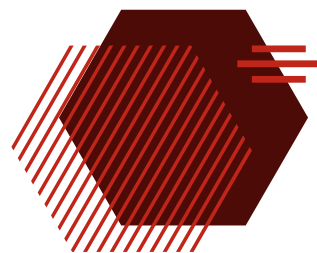
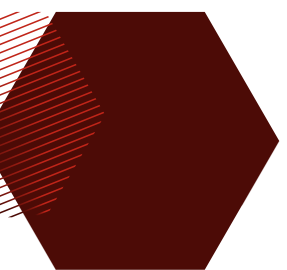
Construction Projects Surveying

LiDAR and photogrammetry technologies for precise site mapping and analysis

Aerial orthomosaic mapping, 3D modeling, and topographic analysis capabilities

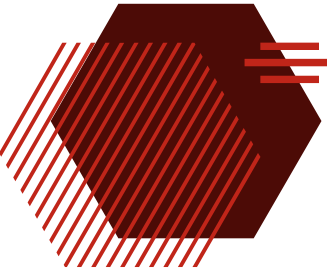
Progress monitoring, volume calculations, and earthwork analysis for large sites

Security support integration with real-time surveillance during construction phases





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Mining Sites Operations

Surface & Underground Inspections

Comprehensive aerial surveys of open-pit mines and underground entry points for safety monitoring.

Thermal imaging to detect equipment hotspots, structural weaknesses, and hazardous conditions.

Real-time surveillance of mining perimeters, access points, and critical infrastructure zones.

Volumetric Analysis & Assessment

Precise stockpile management with accurate volumetric measurements and calculations.

Cross-section analysis and 3D terrain modeling for operational planning and resource tracking.

Grade checking and ore quality assessment using advanced imaging and data analytics.

Integrated security monitoring with armed response coordination for high-value mining assets.





Drone Disaster Response

Our drones provide rapid deployment capabilities in disaster areas, delivering critical situational awareness when every second counts. Advanced thermal imaging technology enables swift fire detection and locating persons in emergency scenarios, even in low-visibility conditions. Real-time data sharing with first responders ensures coordinated, effective emergency response.

Emergency Response Capabilities

Night operations enabled for 24/7 emergency support. Our aerial surveillance systems provide first responders with live intelligence feeds, enhancing search and rescue effectiveness while keeping personnel safe from hazardous conditions.



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Tactical Drone Security Operations

Our advanced tactical drone unit operates around the clock, fully integrated with armed response teams for rapid deployment. Drones provide immediate aerial support during security incidents, enabling threat identification and suspect tracking before ground teams arrive. This seamless coordination between aerial surveillance and armed personnel ensures swift, decisive action.

Our mobile tactical vehicle serves as a command center with continuous drone power supply, enabling extended operations for perimeter monitoring and infrastructure inspection. Real-time data feeds support proactive criminal detection and evidence gathering.



24/7 Readiness with Armed Response



Real-Time Aerial Surveillance



Mobile Tactical Vehicle Support



Criminal Detection & Tracking



Operational Regions

MJAYELI SECURITY maintains nationwide coverage across South Africa with strategically positioned regional offices. Our head office coordinates operations while localized teams provide rapid response capabilities. We are prepared for satellite office expansion to meet growing client demands across all provinces.

KwaZulu-Natal & Western Cape



Limpopo & Mpumalanga



Northwest & Northern Cape



Free State & Eastern Cape





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Areas We Cover

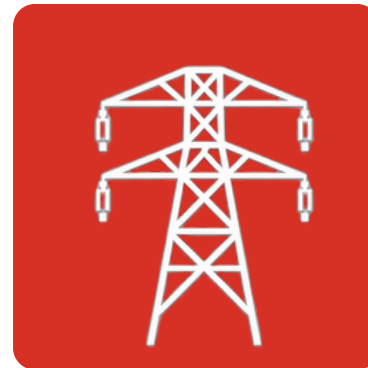
Our comprehensive drone-enabled security services extend across South Africa's most critical infrastructure sectors. From railway corridors to mining operations, power stations to industrial facilities, and major transport hubs, we deliver real-time aerial surveillance and protection where it matters most.



Railway Corridors & Rail Infrastructure



Mining Operations & Open-Pit Sites



Power Stations & Substations



Industrial & Manufacturing Facilities



Ports, Logistics & Transport Hubs



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Strategic Advantage of Drone Integration



Our UAS integration delivers a decisive competitive edge in modern security operations. Real-time aerial surveillance seamlessly augments ground teams, providing commanders with live intelligence feeds and AI-powered analytics. Drones access remote, dangerous, or expansive locations that would otherwise require significant personnel deployment and risk exposure.

This proactive, technology-forward approach enables cost-effective security solutions while leveraging our extensive regional presence and industry expertise.



Real-time aerial surveillance augmenting ground teams



Access to difficult or expansive sites



Reduced risk to personnel in hazardous areas



Cost-effective, data-driven security services



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Vision for Growth

MJAYELI SECURITY is positioned to become the leading technology-forward security provider in South Africa. By integrating advanced UAS capabilities with our established expertise, we will expand our market presence across all provinces, serving modern industries and residential communities with unmatched aerial surveillance solutions.

Our vision combines trusted, professional personnel with drone technology to deliver proactive, data-driven security services. We remain committed to staying ahead of emerging security technologies while protecting critical infrastructure across the nation.



Strengthen Market Position with UAS



Lead as Innovative Security Provider



Combine Personnel with Cutting-Edge Tech



Protect Critical Infrastructure Nationwide



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THANK YOU

Questions Welcome

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