AUTONOMOUS SECURITY

Your Autonomous Eye In The Sky

Revolutionizing Security with an
Autonomous Drone-in-a-Box application,
delivering efficiency and precision

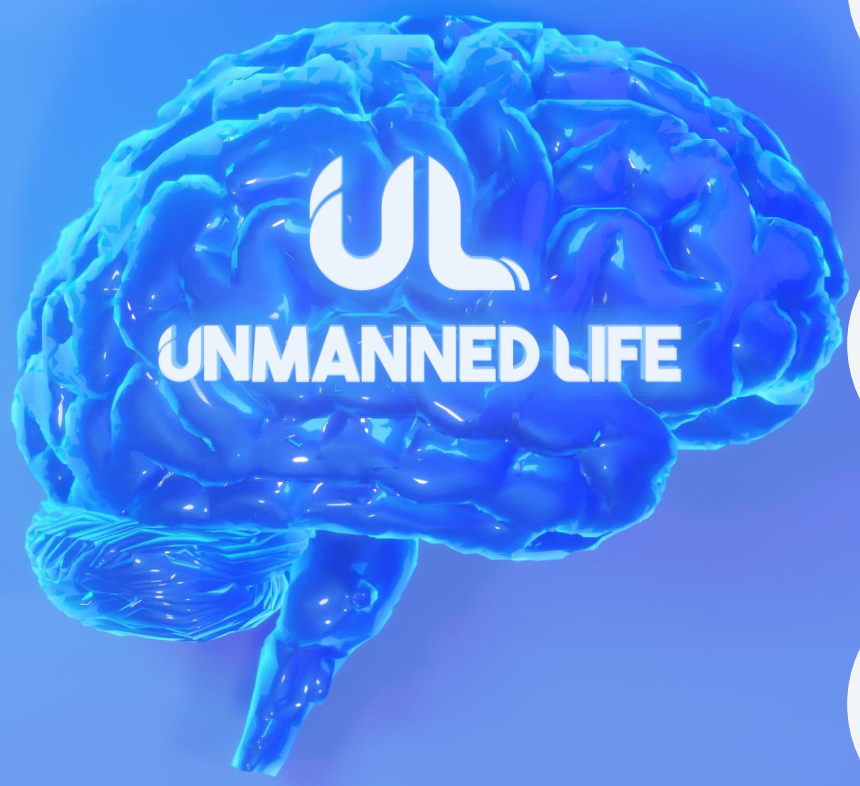
U-SECURITY

By Unmanned Life

UNMANNED LIFE

WWW.UNMANNED.LIFE

About Unmanned Life



Extensible Across Use Cases

Although the platform comes pre-configured for Security, the platform allows you to grow your robotic operations across multiple, autonomous applications over time.

Software Agnostic Towards Vendors

The software platform supports robots from different vendors with varying operating systems and interfaces, enabling efficient robotic teams without compatibility concerns.

Interoperable Technology Across Systems

Our network-interoperable approach enables seamless connectivity across a range of networks, coupled with cloud and edge computing to provide flexibility and enhanced capabilities to end-users.

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The Challenge

Conventional security measures, such as patrols and CCTV cameras have limitations in scalability, data integration, and efficient area coverage

Manual Surveillance
is error-prone, expensive, and likely dangerous

Fixed Surveillance
can be expensive, and invites malicious workarounds

Aerial Surveillance
Helicopter costs are substantially greater

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Introducing Unmanned Life's cutting-edge autonomous drone-in-a-box surveillance product, delivering efficiency and precision, whilst seamlessly integrating into diverse settings and systems.

Drone Fleet Orchestration

Autonomous Surveillance Missions

24/7 operations

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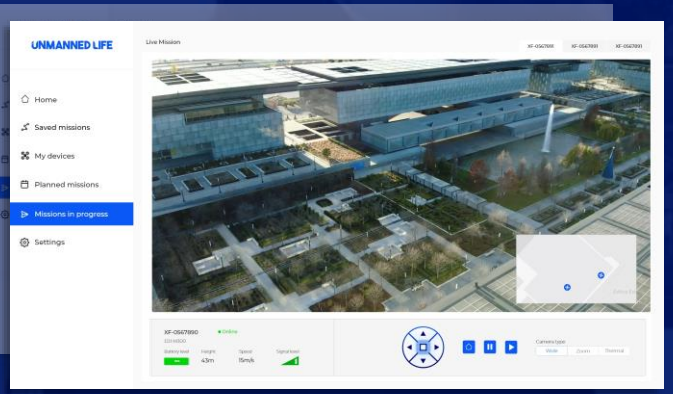
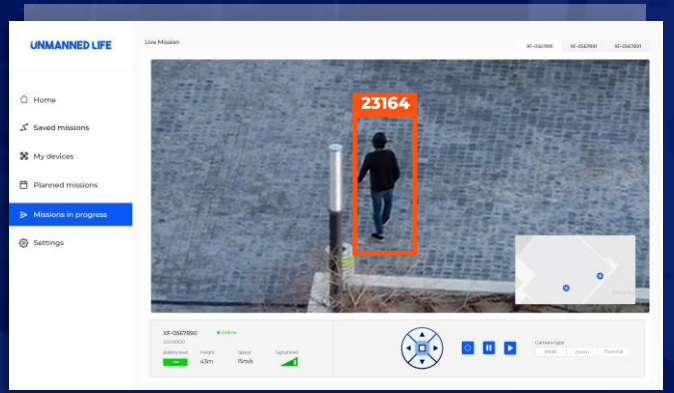
W H A T W E D O

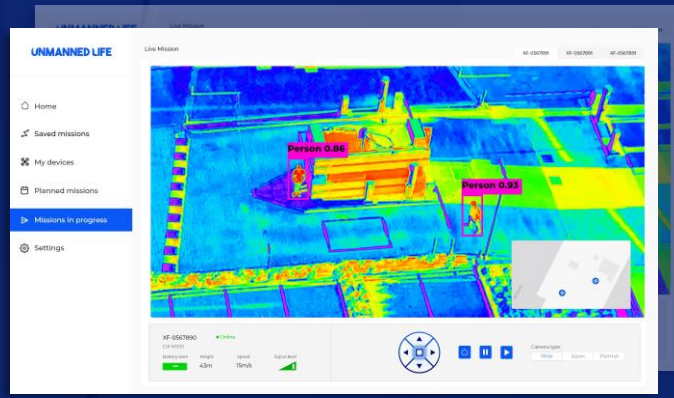
ENABLING SEVERAL
USE CASES



SITUATIONAL AWARENESS



INTRUSION DETECTION



THERMAL IDENTIFICATION

Day / Night SECURITY

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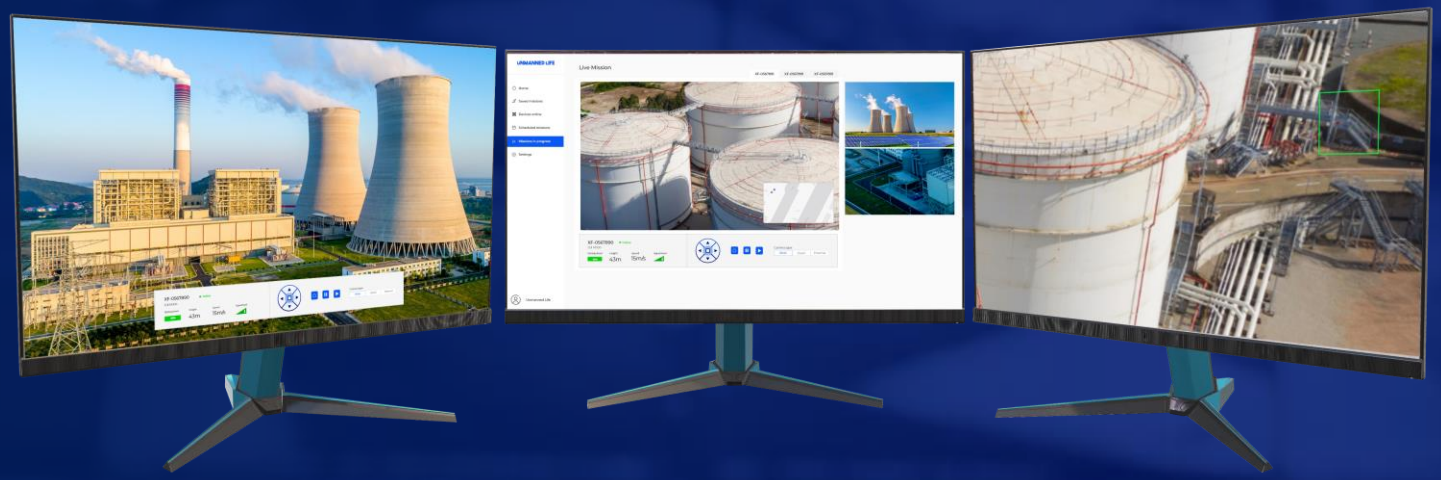

UNPARALLELED
SECURITY CAPABILITIES

BVLOS Ready

Operations can be conducted remotely, regardless of the distance

Swarm Orchestration

Coordinating teams of autonomous drones to work together for security rounds

AI-Powered

Autonomous decision-making through AI for advanced analytics

Network Agnostic

Ensuring seamless connectivity, regardless of the type of on-site network

Secured Data Flows

Layering mobile network protection alongside our cybersecurity protocols

Modular

Easy to maintain and upgrade, with frequent new feature releases

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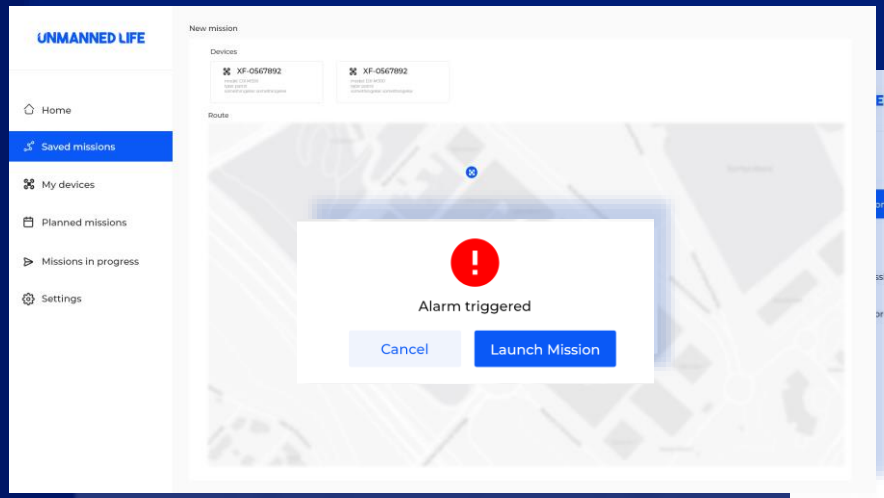
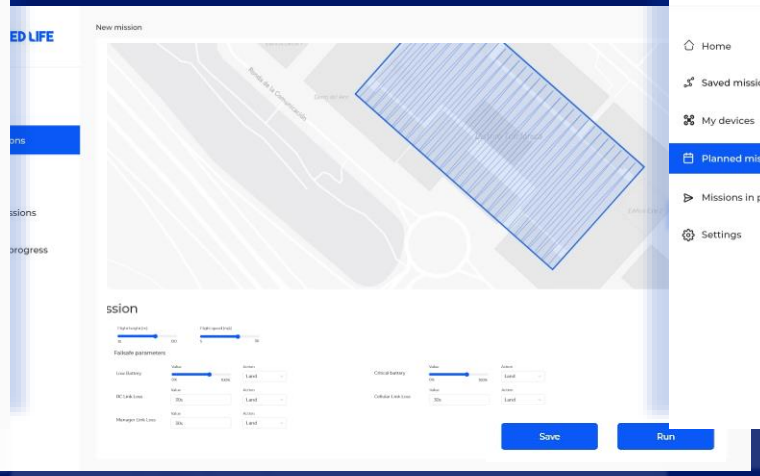
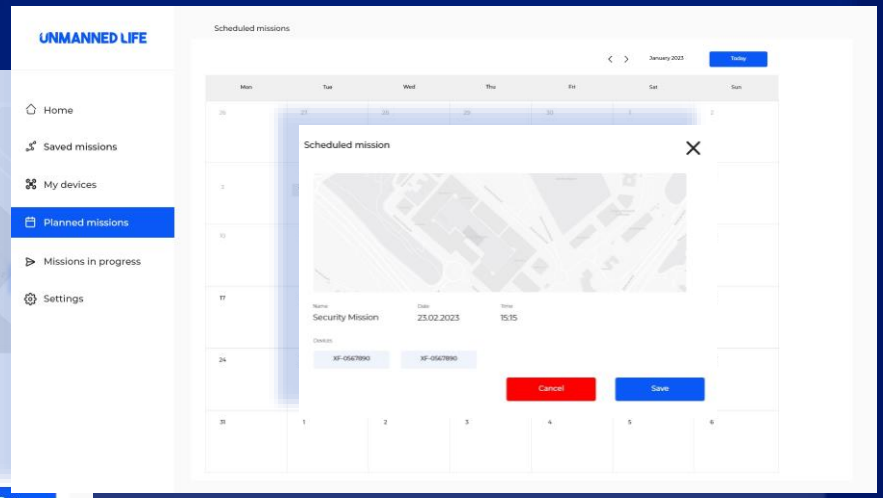
MULTIPLE
DEPLOYMENT METHODS







Event Trigger

Ensure situational awareness with autonomous drone launches to sensor locations.

On-Demand

Select the mission and parameters in real-time for prompt security rounds ad-hoc.

Scheduled

Upload predefined missions to the platform to ensure frequent surveillance rounds.

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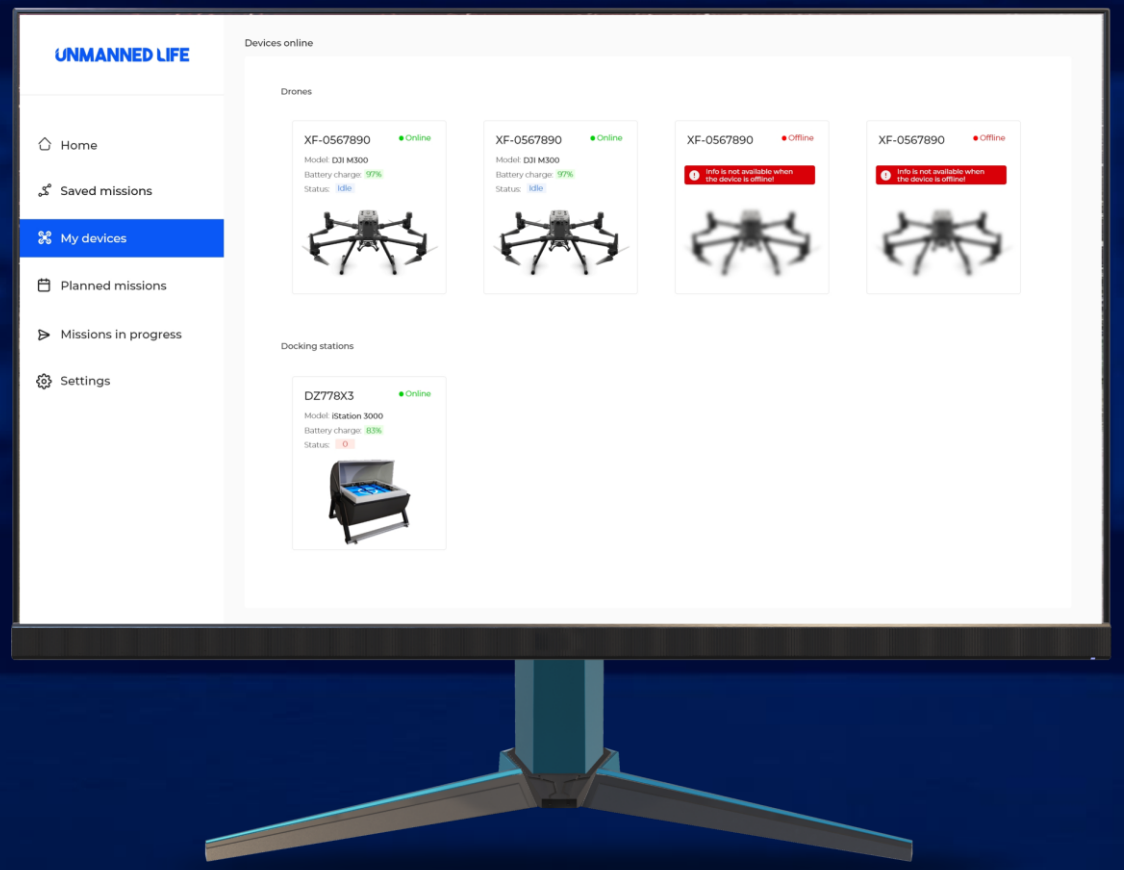
QUICK AND EASY
MISSION SETUP

Select the Hardware 1

Configure and Launch the mission 2

View Real-Time video Data and Post-Mission Insights 3



Features

- Device Connections to Platform Over Mobile Networks
- Centralization of agnostic Device Data via one interface
- Device Descriptions
- Device Status and Health
- Weather status (rain, humidity and wind)

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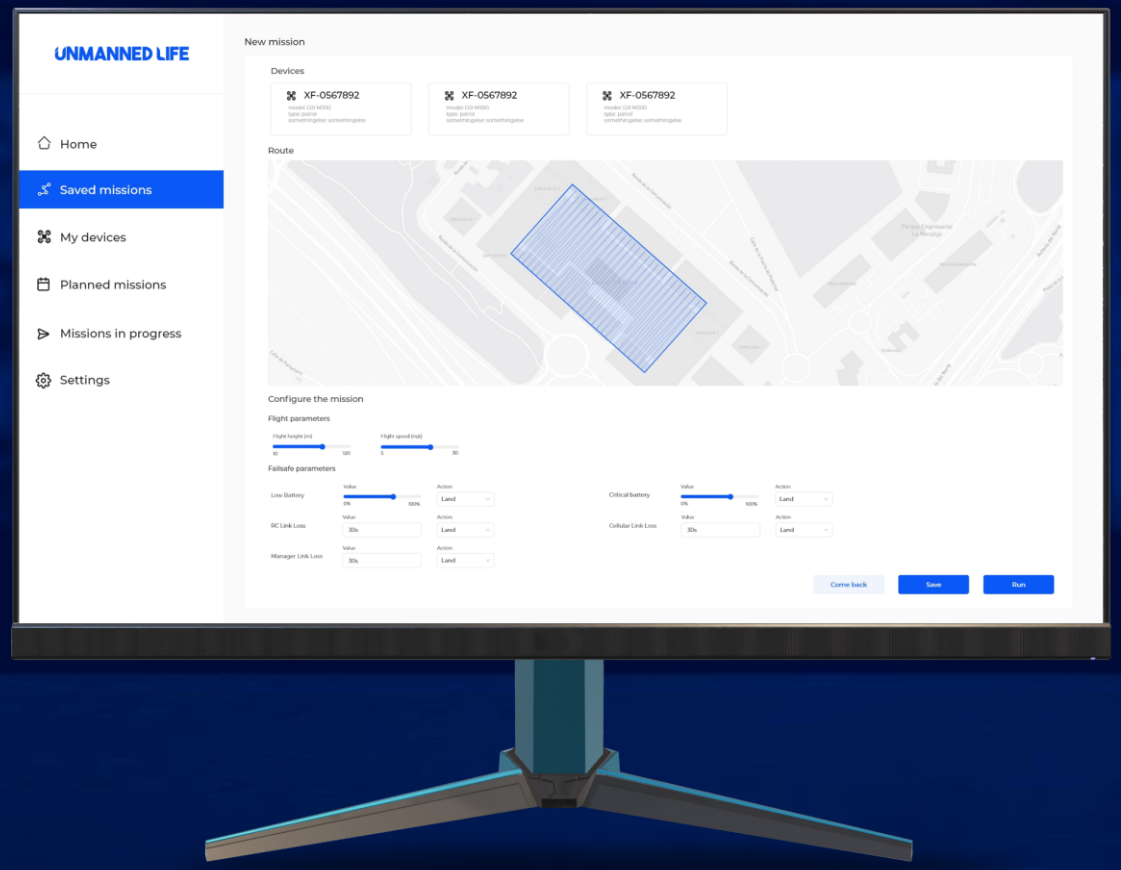

Features

- Customisable Failsafe Procedures
- AI parameter selection
- Boundaries and Geofencing
- Omnidirectional Collision Avoidance

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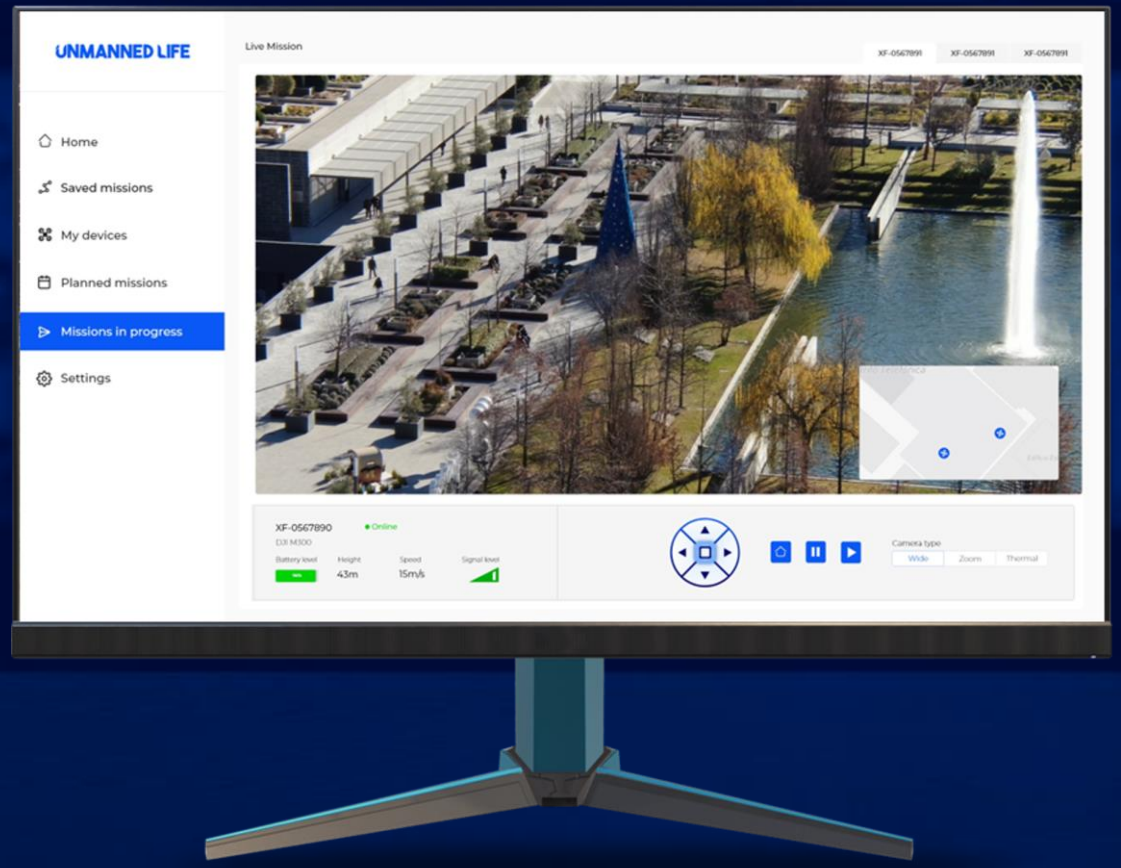

Features

- AI Decision Making and Pathing
- AI detection
- Camera Gimbal Control
- Teleoperations
- Live Mission Editing

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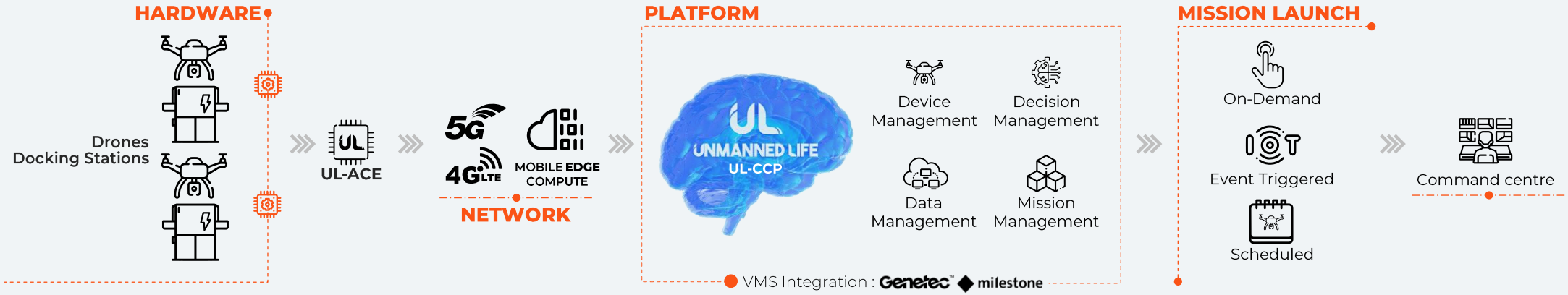
ARCHITECTURE



ARCHITECTURE

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NEXT-GENERATION
HARDWARE FOR SUPERIOR FUNCTIONALITY

UL-Box

Water Resistance: IP45

Mobile Connectivity: 4G/5G

DJI M300

Water Resistance: IP45

Temperature Range: -20°C to 50°C

Wind Resistance: 54 km/h

Flight Time: 35-50 minutes, payload dependent

HEISHA D135 Autonomous Docking Station

Water Resistance: IP65

Temperature Range: -20°C to 50°C

T3 Weather Tower

Weather Monitoring (rain, humidity and wind)

Enhanced Signal Reception

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Benefits of U-Security

- **Constant Availability**
  24/7 capabilities
- **Remote Issue Identification**
  AI capabilities for rapid detection
- **Fast Event Response**
  Up to **60km/h** flight speeds
- **Ease of Use**
  Fast setup with visual prompts

Over 12x Annual ROI

Mission Setup Time:
<2 mins from scratch

Area Coverage in One Flight:
>100 Hectares

Drone Battery Life:
35-50 Mins

Flight Speed Parameters:
1-60 km/h

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PRICING MODEL

Hardware

- DJI M300 RTK Drone and Components
- DJI Zenmuse Camera Payload and Gimbal
- UL-Box Companion Computer per Drone
- Heisha D135 Docking Station
- Heisha T3 Weather Tower

+

System Setup

- A single installation of the platform available on-prem, cloud, or edge.
- Hardware Configuration
- Network Integration
- End-User Training and Documentation
- Simulations and Testing

+

Licence Per Device

- Platform Usage Licence
- Standard Support as per Service Level Agreement

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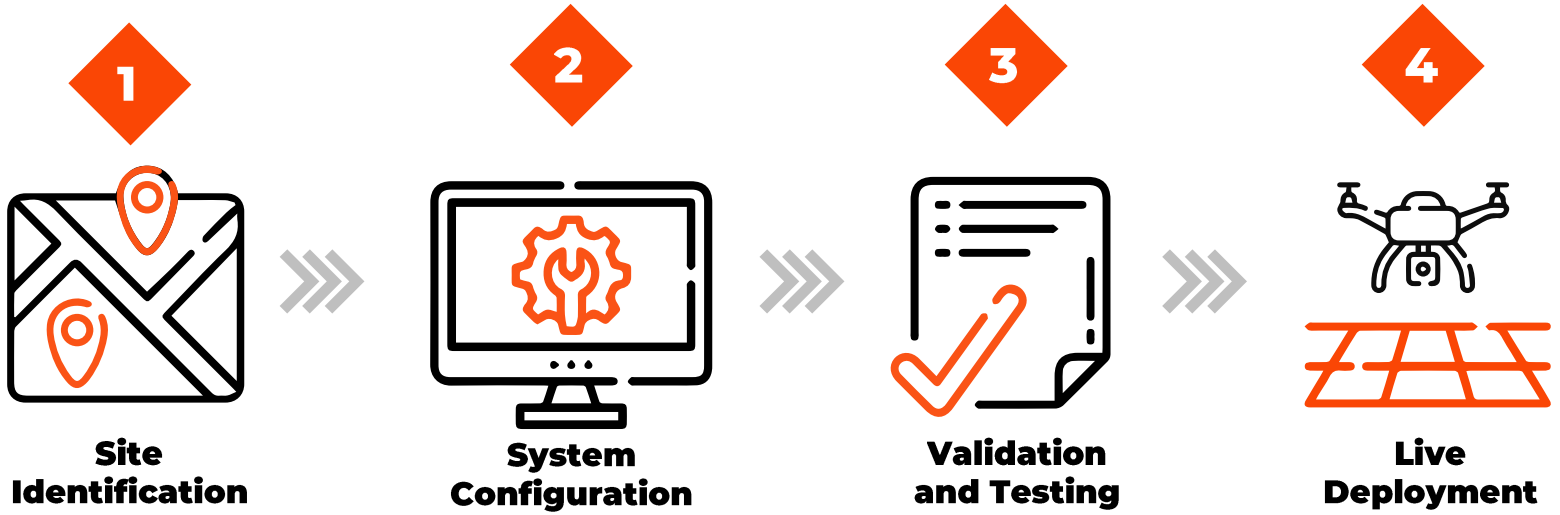
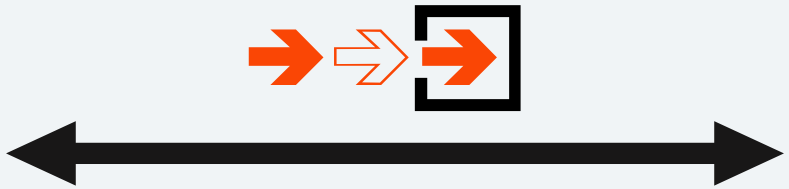
Deployment Timeline





1-2 Months

*Procurement and Flight Permit Dependent

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OUR GLOBAL FOOTPRINT

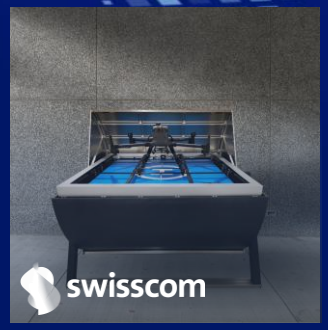
Enterprise Headquarter Surveillance
Spain

Facility Surveillance

Spain

Standard and Triggered Port Surveillance
United Kingdom

Multi-Site Surveillance Pilots
Canada



Enterprise Facility Triggered Surveillance
Switzerland

EDGE-Hosted Port Surveillance
Belgium

Drone-Based Situational Awareness
Germany

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Client Success Story

Keeping Telefonica's HQ Safe

Watch our video

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Client Success Story

How We Solved Telefonica's Security Problems

The Challenges

- The ground had three concurrent guards frequently patrolling the headquarters both day and night.
- False alarms meant unnecessary callouts at early hours
- Video data needed to securely flow through the central security system.

Telefónica

The Solution

- Two Autonomous Drones
- AI at the Edge for Person Detection
- Seamless Integration to Central Command
- Public 5G Connectivity

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The Benefits for Telefónica

- 80x Faster Response When the Environment is Unattended
- 35% savings in Operational Costs in the case of unattended sites
- 66% Reduction in Employee Time Spent on Surveillance Tasks
- 15x More Resource Efficient than Manual Surveillance
- Additionally used to inspect solar panels on the building rooftop

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