



# HEROTECH8

OPEN AIR

**DRONE IN A BOX**

*24/7 Aerial Surveillance*

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**EMVELIA**

TECHNOLOGIES

TAKING YOU FORWARD

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# Autonomous Drone

## Enhanced with Computer Vision Technology



### Aircraft

Max Flight Time (no wind)	46 minutes
Max Hovering Time (no wind)	40 minutes
Max Flight Distance	30 km

### Hasselblad Camera

Sensor	4/3 CMOS, Effective pixels: 20 MP
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 to f/11 Focus: 1 m to $\infty$ (with autofocus)
ISO Range	Video: 100-6400 Still Image: 100-6400
Shutter Speed	Electronic Shutter: 8-1/8000 s
Max Image Size	Main Unit: 5280×3956

View Full Specs: <https://www.dji.com/gr/mavic-3/specs>

## MAVIC 3

Imaging Above Everything



# Automated Drone Station Technology



Drones are prepared to be deployed in under 60 seconds. Typical drones will fly up to 50 km/h.



Technology is compatible with Milestone and Genetec Video Management Systems (VMS).



Automatic recharging is achieved through a wired connection and typically lasts < 1h for a full charge.



Equipped with Wi-Fi datalinks for local networks and 4G modems for over-the-internet control.

## CONTINUOUS DRONE OPERATIONS

Configured to provide round-the-clock and continuous drone operations, landing only to be recharged.

## REMOTE OPERATIONS

Systems can be deployed and operated through secure internet infrastructure. Through an online app, end-users can receive and share the video feed, upload missions and take control when necessary.



## FULLY AUTOMATED TAKEOFF AND LANDING

Drone operations are fully automated, from the airspace checks, to the automated takeoff, the drone flight, the landing and recharging procedures. The end-to-end operation is automated to reduce dependency on the end-user.

## 3RD PARTY DRONES

We integrate commercial-off-the-shelf drones into our system. This allows us to capitalise on rapidly developing vehicular technology that is already widespread and utilised by industry, and keep costs down.

## WEATHER RESISTANT

Systems are designed for the rugged environment - waterproof and wind-resistant, with internal heating and cooling systems to ensure that we can operate in the heat and snow.



# Automated Drone Station

## Applications



### Security & Surveillance

1. Perimeter patrolling
2. Automated alarm response
3. Site monitoring



### Persistent Monitoring

Air Patrol allows for continuous aerial monitoring of large-scale facilities.



### Immediate Response

Deployment is achieved in under 60s.



### Detect and Address Risks

From the air, surveillance and monitoring is significantly improved, allowing drones to see over obstacles and track targets.



### Automation

Automation reduces dependency on personnel whilst improving safety and security performance.



### Facility/Asset Management

1. Asset inspection
2. Facility monitoring
3. Area surveying



### Automation

Automation reduces dependency on on-site personnel to improve safety.



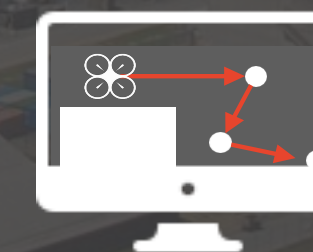
### Data Access

Data automatically collected and uploaded to the cloud - accessible over the internet or local network.



### Large Coverage

Drone can be utilised to repeatedly cover large areas in a short amount of time.



### Remote-Operation

Command, control and stream video without setting a foot on-site - saving time and cost.



# Customer Use Case



- Security across large power plant infrastructure
- 8x flights per day per system overseen by security team
- Expanding use-cases for inspection of out-of-reach areas - e.g. chimneys, rooftops of tall structures
- Achieved surveillance over inaccessible perimeter
- Reduced number of patrol personnel
- Reduced number of CCTV
- Greatly reduced time taken for inspection of tall structures



# Customer Use Case



- Nuclear plant facility monitoring
  - Infrastructure inspection throughout plant decommissioning lifecycle
  - Routine remote rooftop and wall inspections
  - Storm damage assessments
- 
- Reduced logistical overhead (travel to/from site)
  - Improved time of inspection
  - Improved safety - reduced rope-access dependencies



# Example Use Case

## Construction Inspection



### Construction Inspection

- Site monitoring
- Orthomosaics
- Construction progress monitoring
- Marketing footage
- Remote specialist planning



# Example Use Case

## Vaccine Manufacturing Plant



### Vaccine Manufacturing Plant

- Routine aerial patrols across expansive security perimeter
- Routine rooftop inspections
- Storm damage assessments
- Improved time, safety for building inspection.
- Achieved surveillance across hard to monitor areas.
- Control via internal IT infrastructure



# Example Use Case

## Power Distribution Plant



### Power Distribution Plant

- Facility/asset monitoring of power distribution network
- Close up thermal inspection of transformers
- Routine flights of nearby power line assets
- Improved time, safety for inspections.
- Entirely remote operation - no associated logistics
- Increased number of inspections, providing more informative data to improve asset maintenance scheduling



# Example Use Case

## Fire & Smoke Detection



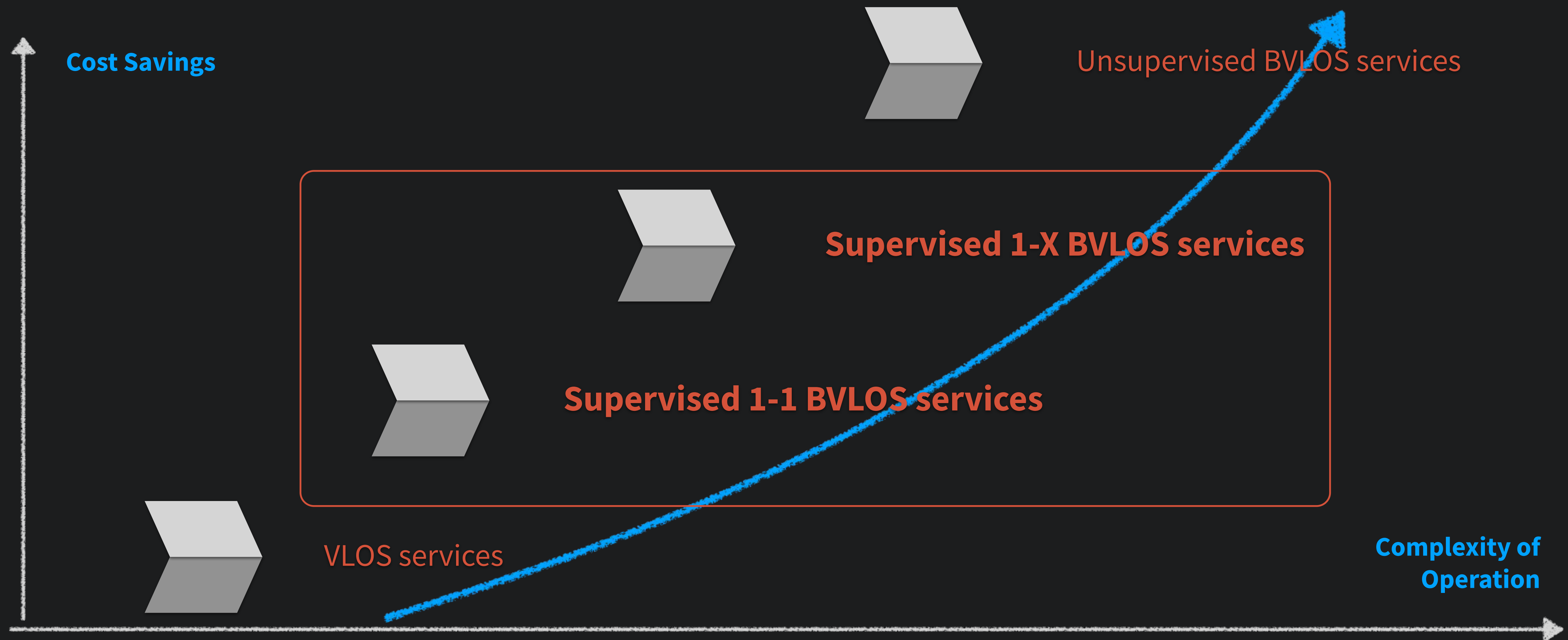
### Fire & Smoke Detection

- Geographical area monitoring
- Close up thermal inspection
- Routine flights
- Improved time, safety for inspections.
- Entirely remote operation - no associated logistics
- Increased number of inspections, providing more informative data to improve asset maintenance scheduling



# Automated Drone Technology

Why HEROTECH8?





# Procurement

## Flexible Plans



	Purchase	Leasing
<b>Drone with Station Box</b>		
DJI MAVIC 3 Drone	✓	✓
Recharge Station Box	✓	✓
Configuration Software	✓	✓
Unlimited Cloud Storage	✓	✓
Secure Cloud Portal Access	✓	✓
Installation & Training	✓	✓
Installation Services	✓	✓
○ Site Survey & Feasibility Assessment		
○ Remote Performance Monitoring		
○ Direct Engagement with National Regulator		
Priority Support	✓	✓
Warranty	1 Year	Unlimited
○ 100% Component & Service Maintenance Cover		
<b>4G SIM Card with Unlimited Data</b>	✓	✓





Emvelia is an Innovation Technology company creating state-of-the-art solutions.

We are pioneering the use of technology for business, taking visions and turning them into cutting-edge solutions.

HEALTHCARE

FINANCE

DRONES

MANUFACTURING

SHIPPING

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SOUND & ACOUSTICS

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