

AONIC

INDUSTRIAL SOLUTIONS INTRODUCTION

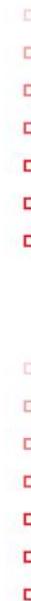
HCMC, 19th July 2025



OUR IMAGES



AONIC



DJI ENTERPRISE DRONE ROADMAP



Company Founded

2006



· Released Phantom 4, M600 and M600 Pro

2016



· Released Phantom 4 RTK, · Released PAYLOAD SDK

2018



· Released M300 RTK and Zenmuse P1/L1/H20 series

2020



Released M30 series, H20N, DJI Dock and DJI FlightHub 2, M3E, M3T

2022



Released M4E, M4T, FC 100

2025

2014

· M100, formally started exploring industrial usage



2017

M200 series released



2019

· Released Mavic 2 Enterprise series · Released DJI Terra



2021

· Released M2E Advanced



2024

· Released M350 RTK, FC30



DJI ENTERPRISE CURRENT PRODUCT LINEUP



DJI Pilot 2 APP
Manual control, mission planning

dji FLIGHTHUB 2

Drone Operations
Management Platform
(web-based)



D-RTK 3

Mavic 3
Enterprise Series

M3E

M3T

M3M

Matrice
4 Series

M4E

M4T

Matrice
350 RTK

P1

L2

H30

H30T

Dock 2

M3D

M3TD

Post-Processing

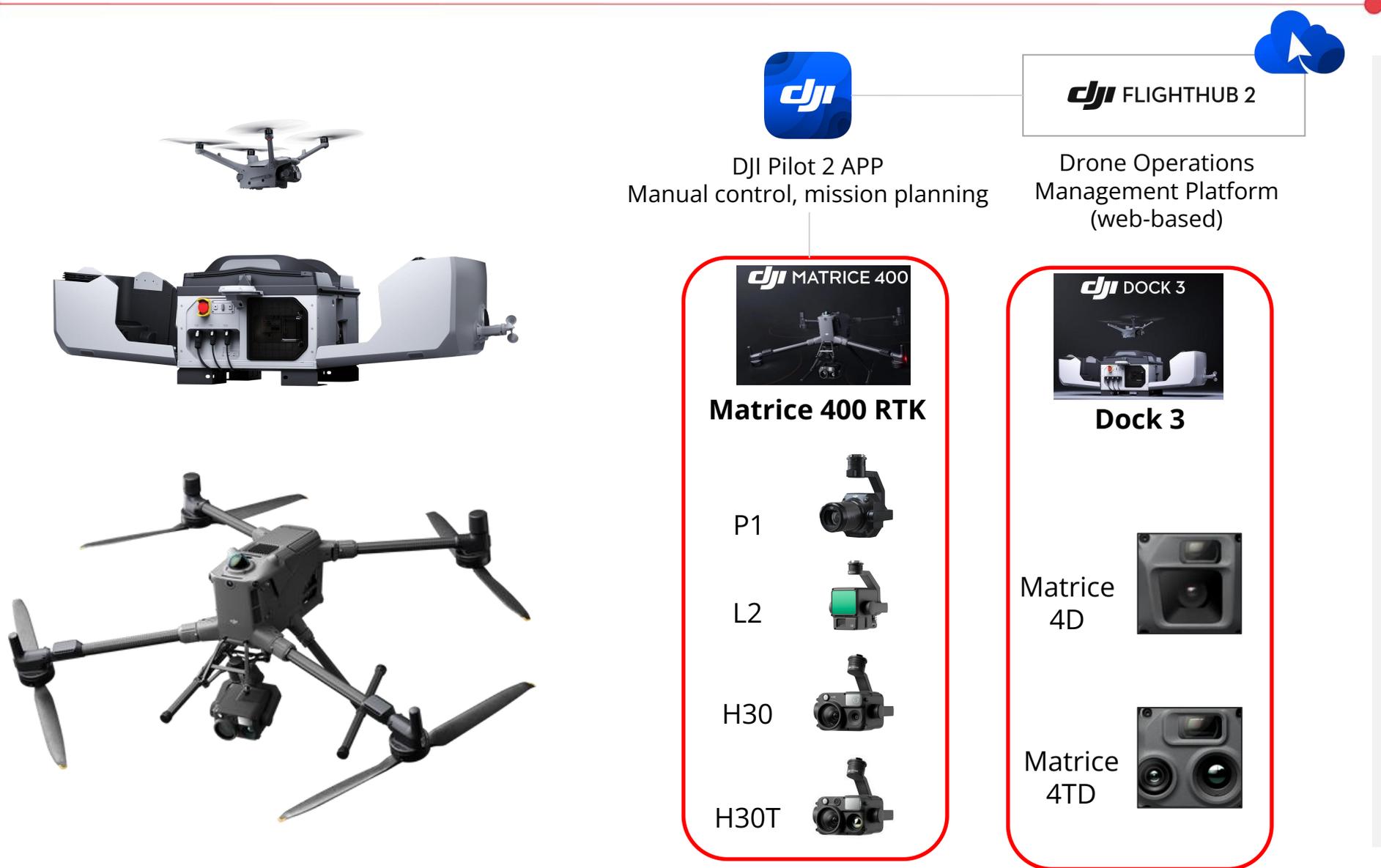


DJI Terra & Modify
2D/3D Modelling
Software (PC)



**DJI Thermal Analysis
Tool**
Thermal image analysis
(PC)

DJI ENTERPRISE CURRENT PRODUCT LINEUP



DJI Pilot 2 APP
Manual control, mission planning



Drone Operations
Management Platform
(web-based)



Matrice 400 RTK

- P1
- L2
- H30
- H30T



Dock 3

- Matrice 4D
- Matrice 4TD

Post-Processing



DJI Terra & Modify
2D/3D Modelling
Software (PC)



DJI Thermal Analysis Tool
Thermal image analysis
(PC)

DJI ENTERPRISE – 3rd PARTY HADWARE INTEGRATION



Mavic 3 Enterprise Series



Audio Broadcast



Gimbal Searchlight

Matrice 30 Series



Spotlight & Speaker

Matrice 350 RTK Series



Oblique Camera



Audio Broadcast



Gimbal Spotlight



Gas Detector



TH4 Hook



Flashing Light



Water Sampling



DJI ENTERPRISE – DJI MODULAR & PAYLOAD



Mavic 3 Enterprise Series Modular



RTK Module



Speaker

Matrice 4 Series Modular



Spotlight



Speaker

Matrice 350 RTK Payload Camera



H30T



H30



P1



L2



DJI ENTERPRISE –SOFTWARE



DJI PILOT 2

- Flight Planning & Execution
- Flight Control & Monitoring
- Payload & Camera Control
- Data Management & Analysis



DJI FLIGHTHUB 2

- Drone Fleet Management
- Livestream
- Annotation & Sync Map
- Cloud Mapping
- Mission Management
- Media Management



DJI TERRA

- 2D Visible Light
- 3D Visible Light
- 2D Multispectral
- Lidar Point Cloud
- GCP Management



DJI MODIFY

- 3D Visible Light
- Floating Part Removal
- Flattening
- Texture Repair
- Hole Fill
- Water Surface repair
- Cloud Sharing



DJI THERMAL ANALYSIS TOOL 3

- Analyse Thermal Image
- Temperature Information
- Reporting format



DJI ENTERPRISE -PRODUCT SELECTION



01

02

03

Mission Planning

Data Acquisition

Analysis/Report



DJI Pilot 2



DJI FlightHub 2



Mavic 4
Enterprise Series



M30 Series



M350 RTK
M400



Dock 3



DJI FlightHub 2



DJI Terra



DJI Modify



DJI Thermal
Analysis Tool 3



MAVIC 3 ENTERPRISE SERIES



RTK Module

Speaker



Small Commercial Drone

- Max Flight Speed: 15 m/s
- Max Take-Off Altitude Above Sea Level: 6000 m
- Max Pitch Angle: 30° (Normal Mode), 35° (Sport Mode)
- Operating Temperature Range: -10°C — 40°C

Specification	Mavic 3E	Mavic 3T	Mavic 3M
Gimbal View			
RGB Camera	4/3 CMOS, 20 MP	4/3 CMOS, 20 MP	4/3 CMOS, 20 MP
Zoom	56x Hybrid Zoom	56x Hybrid Zoom	-
Thermal Camera	-	DFOV: 61°, Equivalent Focal Length 40mm, Resolution 640 × 512	-
Multispectral Camera	-	-	Four 5MP multispectral cameras (Green, Red, Red edge & Near-Infrared)
Industry	AEC & Survey	Energy & Utilities, Oil & Gas	Agriculture
Main Function	Surveying & Inspection	Thermal Imaging & Inspection	Multispectral Imaging & Surveying

MATRICE 30 SERIES



Commercial Drone

- Max Flight Speed: 23 m/s
- Wind Resistance: 12 m/s
- Max Flight Time: 41-min
- IP55 Protection Rating
- Dual-vision and ToF sensors

Specification	Matrice 30	Matrice 30T
Gimbal View		
Wide-Angle Camera	½" CMOS Sensor, 12 MP	½" CMOS Sensor, 12 MP
Zoom Camera	½" CMOS Sensor, 48 MP	½" CMOS Sensor, 48 MP
Thermal Imaging Camera	-	Equivalent Focal Length: 40 mm, Resolution: 640 x 512, Frame Rate: 30 fps
Laser Rangefinder	Range: 3m – 1200 m	Range: 3m – 1200 m
Industry	Public Safety, Oil & Gas	Public Safety, Oil & Gas
Main Function	Inspection & Surveillance	Thermal Imaging & Inspection & Surveillance



MATRICE 350 RTK & PAYLOAD



Flagship Drone Platform

- 55 Minute Flight time
- IP55 Protection Rating
- Night-Vision FPV Camera
- Multiple Payload Configuration
- Using DJI Pilot 2 software to fly

Payload	H30	H30T	P1	L2
Payload View				
Specifications	<ul style="list-style-type: none"> • Wide-angle camera • Zoom camera • Laser range finder • NIR auxiliary light 	<ul style="list-style-type: none"> • Wide-angle camera • Zoom camera • Laser range finder • NIR auxiliary light • Infrared thermal camera 	<ul style="list-style-type: none"> • Full-frame camera • Multiple fixed-focus lens options 	<ul style="list-style-type: none"> • Frame LiDAR • High-accuracy IMU system • 4/3 CMOS RGB Mapping Camera
Industry	Public Safety, Oil & Gas, AEC& Survey	Public Safety, Oil & Gas, AEC & Survey	Energy & Utilities, Agriculture, AEC & Survey	Energy & Utilities, Agriculture, AEC & Survey
Main Function	Inspection & Surveillance	Thermal Imaging & Inspection & Surveillance	Surveying & Mapping & Inspection	Surveying & Mapping & Inspection



MATRICE 4D SPECIFICATION



DJI MATRICE 4D

Tele Camera

1/1.5 CMOS, 48 MP Effective Pixels
f/2.8, Format Equivalent: 168 mm
Vs M3D, pixels quantity increase by 4 times,
zoom capability increase by 2 times

Mid-Tele Camera

1/1.3 CMOS, 48 MP Effective Pixels
f/2.8, Format Equivalent: 70 mm

Laser Range Finder

Measurement Range: 1800 m (1 Hz) | ~5905 ft.
Range Accuracy: $0.2 + 0.005 \times D$ (m)

Wide-Angle Camera

4/3 CMOS, 20 MP
f/2.8-f/11, Format Equivalent: 24 mm
0.5-Second Interval Shooting
Mechanical Shutter
In-camera distortion correction



MATRICE 4TD SPECIFICATION



DJI MATRICE 4TD

Thermal Camera

640 × 512, f/1.0, 53 mm equivalent focal length
Infrared super-resolution, image resolutions up to 1280 × 1024

Tele Camera

1/1.5 CMOS, 48 MP Effective Pixels
f/2.8, Format Equivalent: 168 mm
Vs M3D, pixels quantity increase by 4 times,
zoom capability increase by 2 times

Laser Range Finder

Measurement Range: 1800 m (1 Hz) | ~5905 ft.
Range Accuracy: $0.2 + 0.005 \times D$ (m)

Mid-Tele Camera

1/1.3 CMOS, 48 MP Effective Pixels
f/2.8, Format Equivalent: 70 mm

Wide-Angle Camera

1/1.3 CMOS, 48 MP Effective Pixels
f/1.7, Format Equivalent: 24 mm

NIR Auxiliary Light

FOV: 6°, Illumination Distance: 100 m



MATRICE 400



Matrice 400 Highlights

Endurance, High-Speed Payload Flexibility

- 59 mins of flight time with a payload
- Maximum flight speed of 25 m/s
- Maximum route speed of 25 m/s
- 6 kg payload capacity
- 4 × E-Port V2 interfaces
- 7 payloads at the same time

Safe & Reliable

- Power-line-level obstacle sensing
- Video transmission range
FCC: 40 km | CE/SRRC/MIC: 20 km
- Airborne relay video transmission
- Full-color vision for safer flights
- IP55 protection rating

Automated Operations

- Power line follow
- Slope & geometric route

Smart & Efficient

- Smart detection
- AR projection line, map, route
- Real-time terrain follow
- Intelligent flight modes
Cruise, FlyTo, Smart Track, POI
- Ship-based takeoff/landing

Accessory Upgrades

- Brand new smart battery station
- Manifold 3 onboard computer with
100 TOPS of processing power



dji MATRICE 400



DOCK EVOLUTION



Start Of Automation

Small And Tough

Meet The Intelligent



HIGHLIGHTS



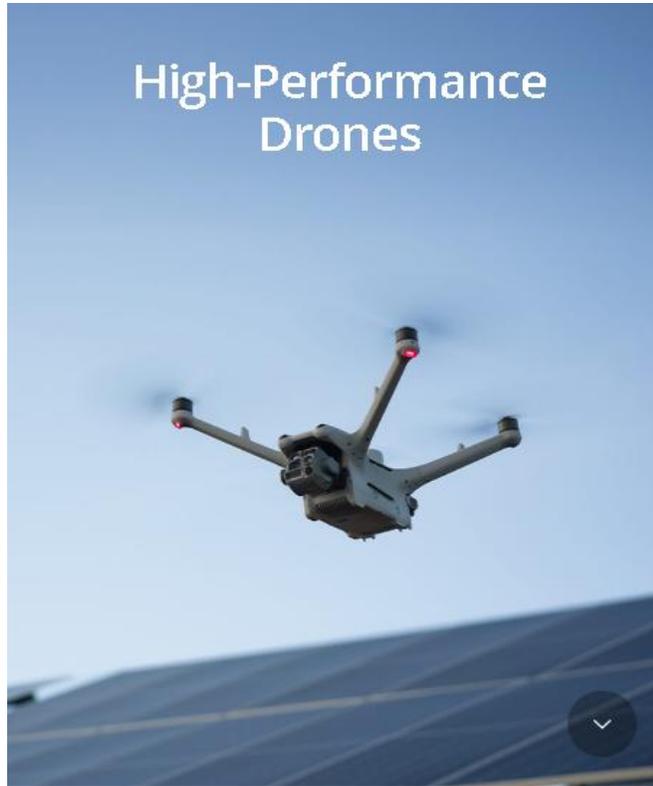
Flexible Deployment,
Ultra-Long Transmission



Efficient Operation with
Intelligent Features



Enhanced Experience
With Advanced Software



High-Performance
Drones



Master All Environment

ICE RESISTANCE



Accessories



DJI DOCK 3 ANATOMY - EXTERIOR



DJI DOCK 3 ANATOMY - INTERIOR



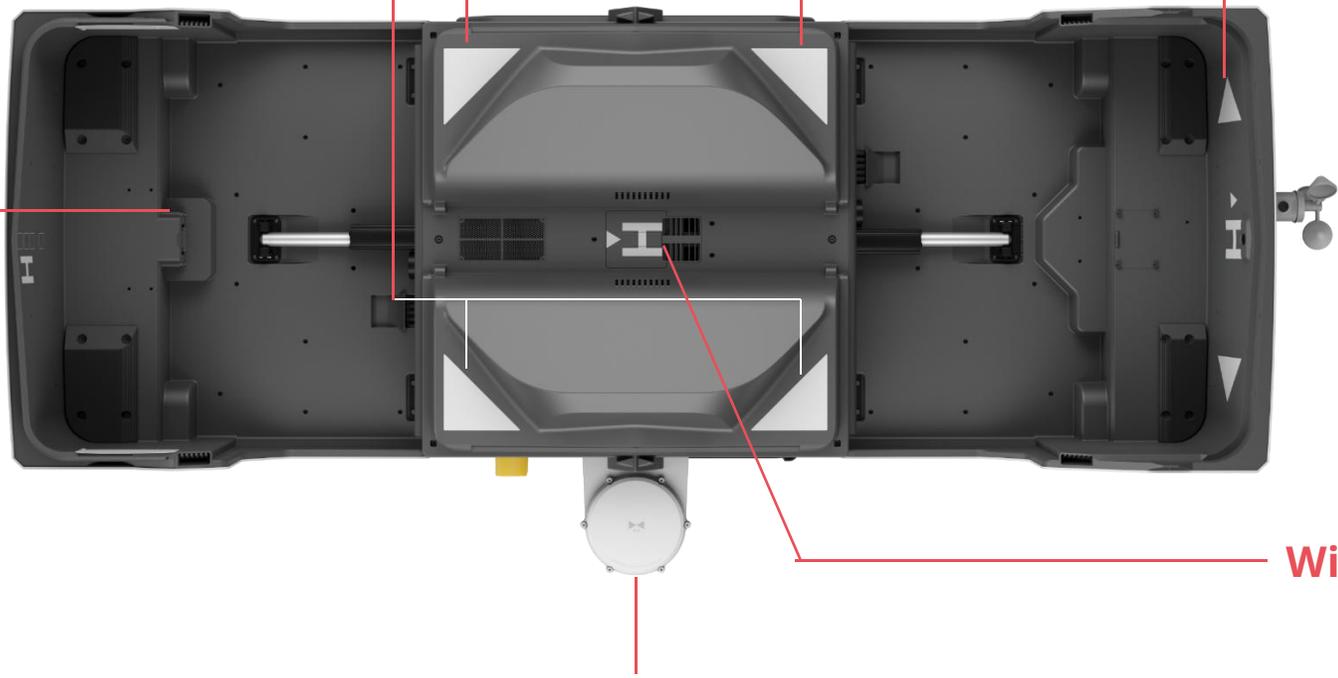
Landing mark

Landing mark

Cellular dongle 2

Wireless charging module

Main RTK antenna



MASTER ALL ENVIRONMENT



MASTER ALL ENVIRONMENTS

DOCK 3

M4D SERIES

WIND RESISTANCE

TEMPERATURE RANGE

IP56

IP55

**12m/s
during take-off/landing**

-30°~50°C

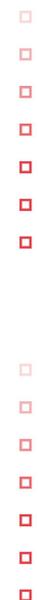
DJI Dock 3 has an IP56 rating
Work even in harsh environments



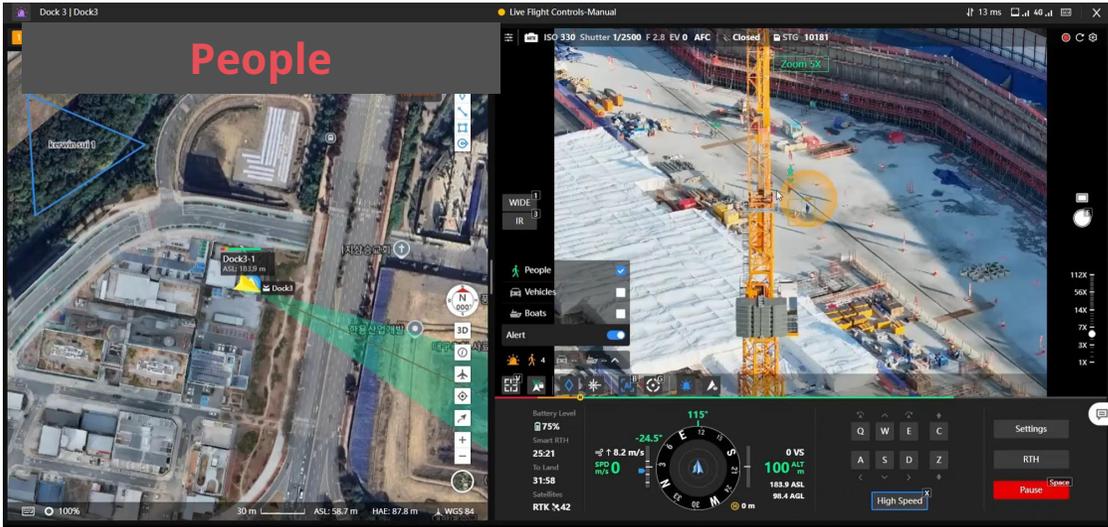
12m/s wind resistance
Anti-icing propellers



More powerful air conditioning
Dock cover can open with 10mm icing



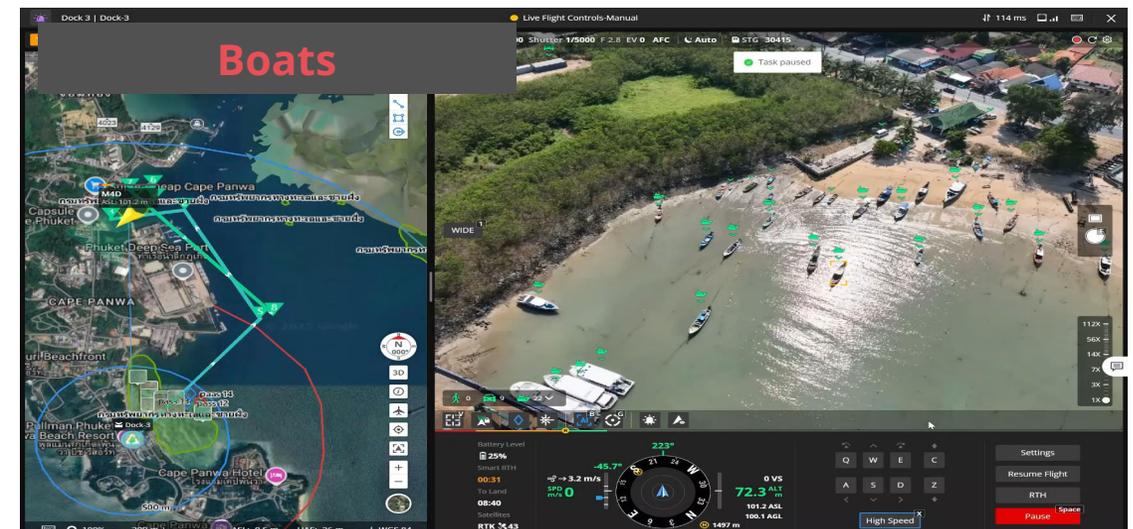
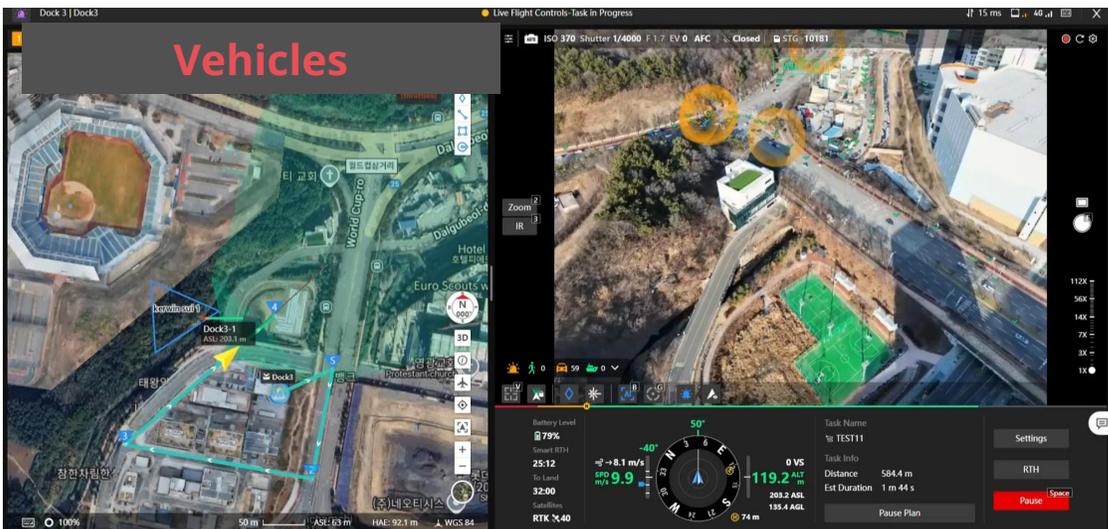
REAL-TIME DETECTION



Detect:

- People
- Vehicles
- Boats

Send a warning message on FlightHub 2 when an object is detected



ADVANCE SOFTWARE



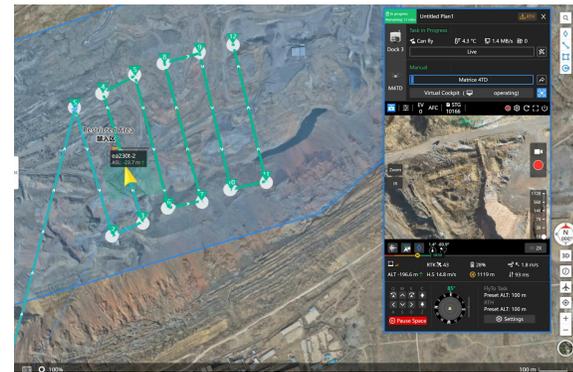
Smart Track

- Operators can use the Matrice 4D Series' auto-zoom to track vehicles or vessels for quick follow-up



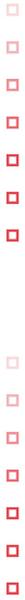
Automated Routes

- During the automated mission, the drone captures images or videos of vehicles, vessels, and temperature anomalies and alerts the operators

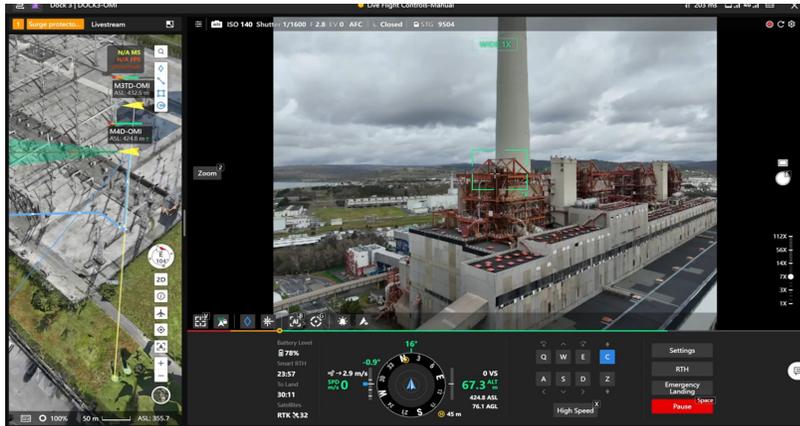


Intelligent Change Detection

- The intelligent change detection feature assists operators in analyzing area changes over time, supporting environmental protection, disaster relief, and crack detection for improved decision-making.



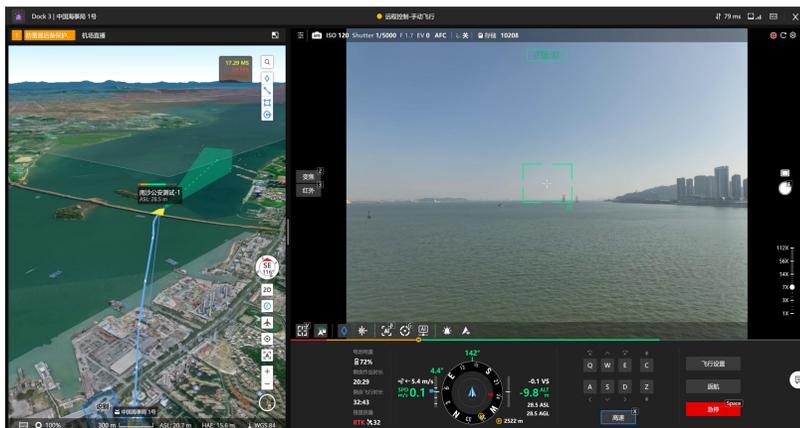
HIGH PERFORMANCE DRONES



Greater Camera Performance



Enhance The Visibility During Night



New Angle Capability

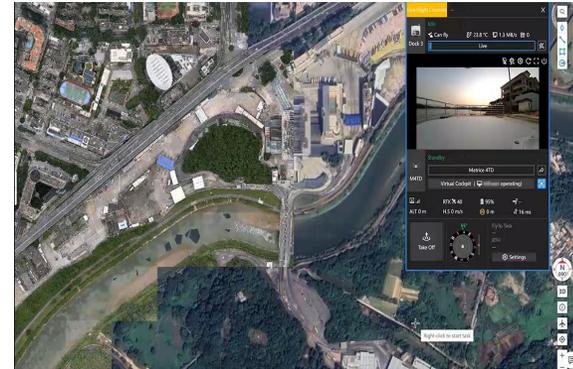


EFFICIENT OPERATION



Open and Fly

- Take off quickly and arrive at the emergency site



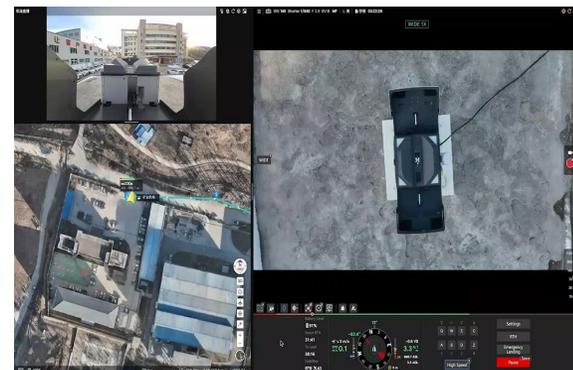
Low-Latency Live View

- Video feed is displayed in real-time with minimal delay

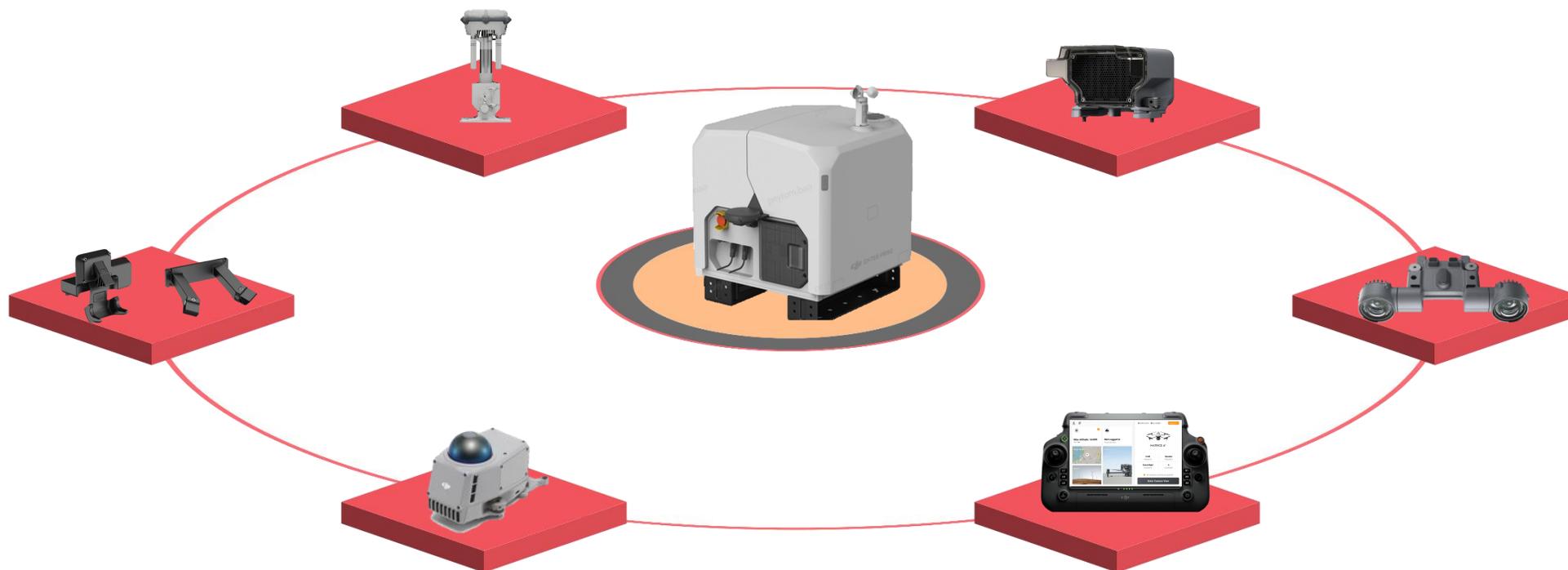


Transmit While Flying

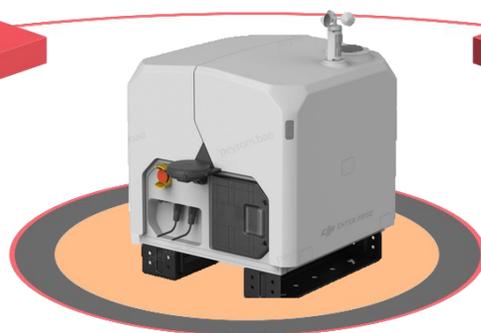
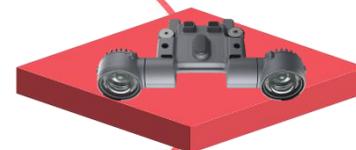
- Data transfers instantly upon landing, and a rough model is quickly generated in the cloud, boosting efficiency



ACCESSORIES

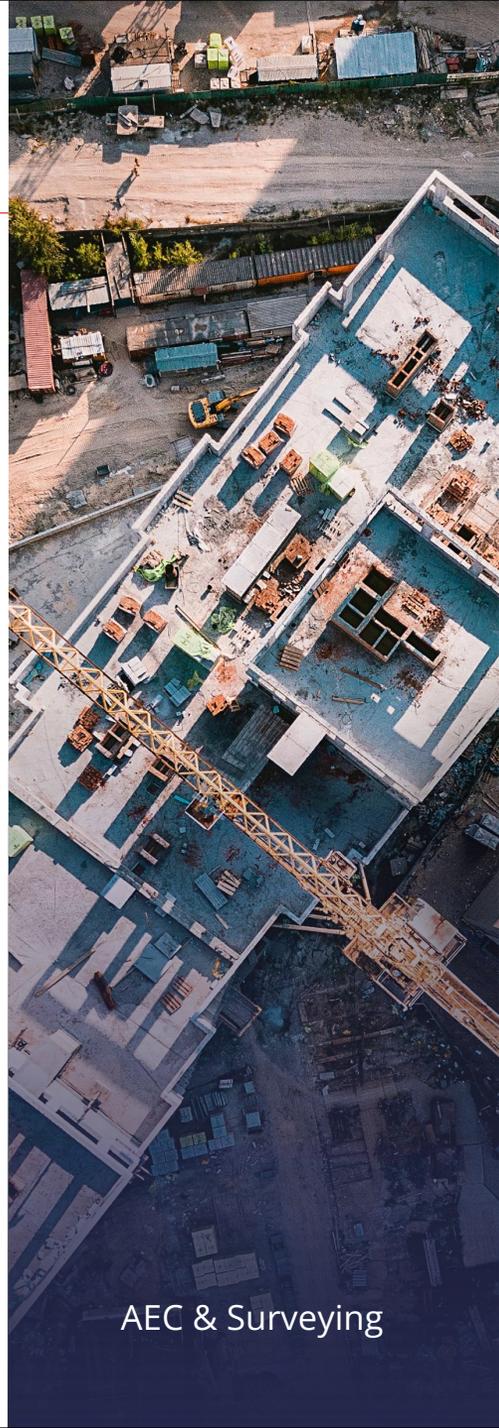


ACCESSORIES

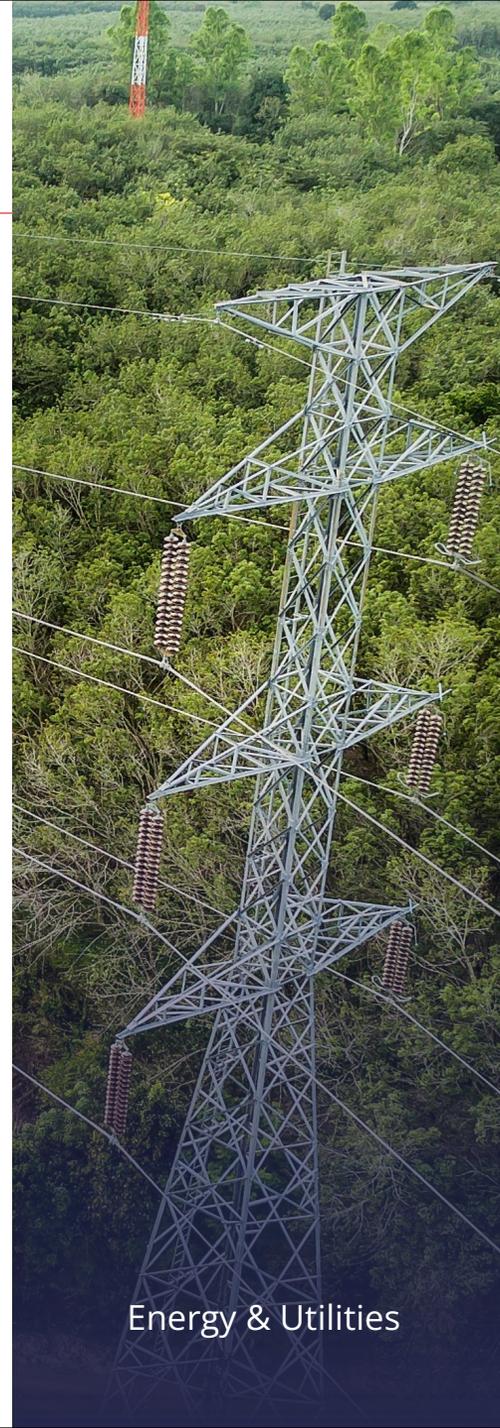




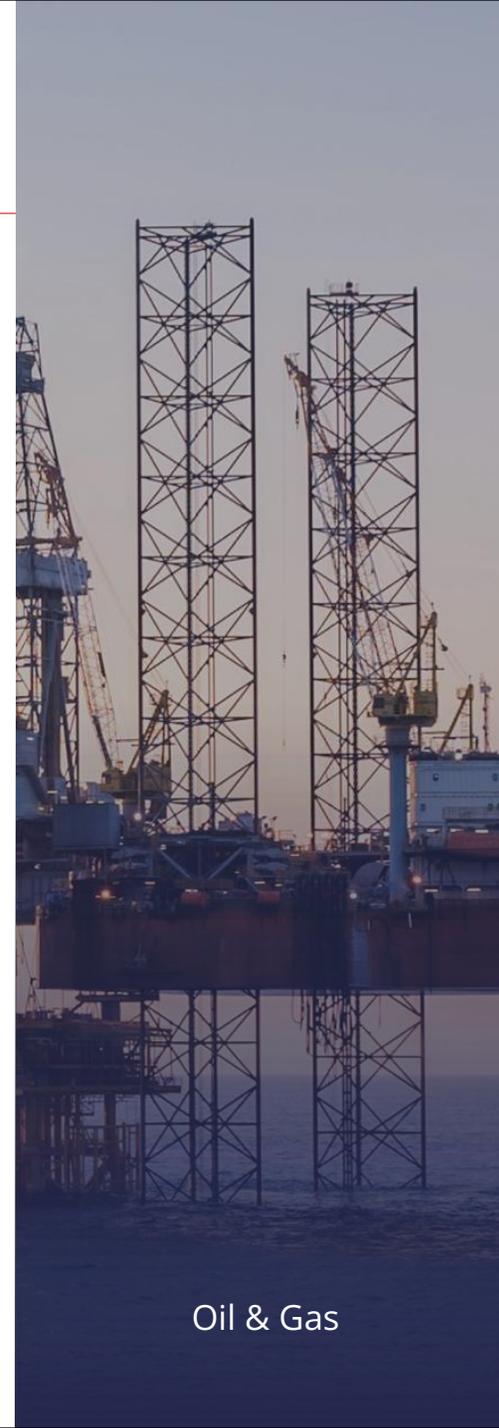
Public Safety



AEC & Surveying



Energy & Utilities



Oil & Gas



Agriculture

Applications of Drone in Public Safety Industry

- **Search and Rescue (SAR)**
- **Disaster Response and Management**
- **Law Enforcement**
 - Mission Situational Awareness
 - First Response
- **Firefighting**
 - Urban Fires
 - Wildfires

Relevant Models



Matrice 30T



Matrice 350RTK + Zenmuse H30T



MATRICE 30T IN FIREFIGHTING



DJI Pilot 2



Manual Flight



Matrice 30T



DJI FlightHub 2



Fire Monitoring



DJI FlightHub 2



Thermal Inspection

1. Mission Planning

- During fire accident, Matrice 30T can be deployed and controlled by **manual flight**.

2. Data Acquisition

- **Displaying of livestreaming of FlightHub 2** on firefighting operation allows **fast decision in short time**.

3. Analysis/Report

- Thermal camera on Matrice 30T can detect the **hottest areas** in a burning structure to identify the **source of the fire**.



MATRICE 350 RTK WITH H30T IN LAW ENFORCEMENT



DJI Pilot 2



Manual Flight



M350 RTK H30T DJI FlightHub 2



Surveillance Process



DJI FlightHub 2



Crime Scene Documentation

1. Mission Planning

- During **emergency response**, M350 RTK is deployed and controlled using **DJI Pilot 2**.

2. Data Acquisition

- By using **Smart Track** with **livestream** and **annotation**, **rapid communication** between police officers is granted.

3. Analysis/Report

- **High-resolution images & videos** act as valuable information for **crime scene investigations** and **courtroom purposes**.



MATRICE 350 RTK WITH H30T IN SAR IN VIETNAM



MATRICE 30T RESCUE ASSISTANCE IN VIETNAM



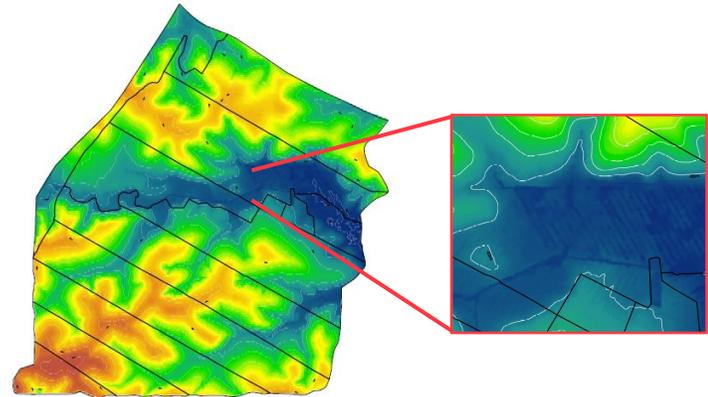
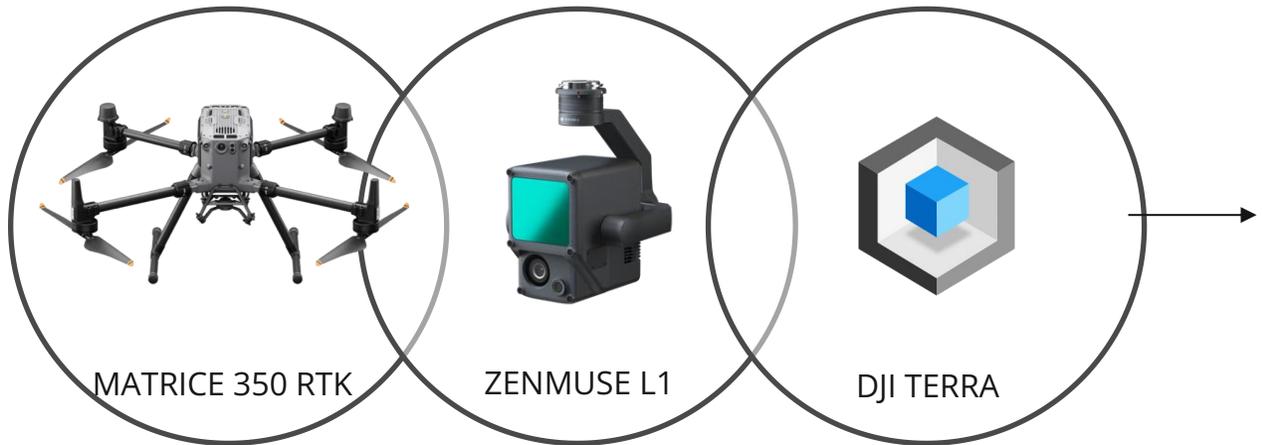
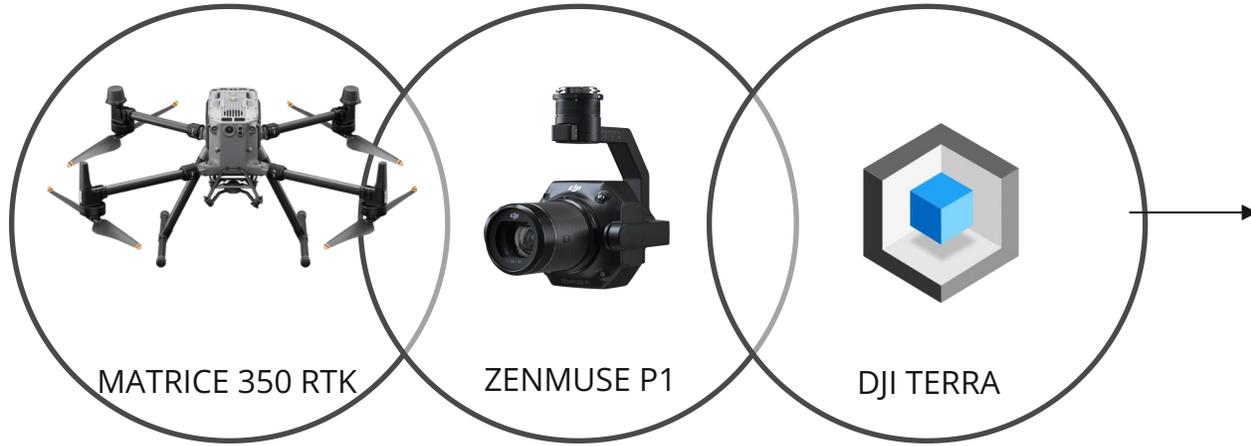


AEC & SURVEYING INDUSTRY

The ability to capture data from above, drones have been successfully integrated into surveying workflows to perform land surveys, photogrammetry, 3D mapping, Topographic surveying and more.



AEC & SURVEYING RECOMMENDED DRONES



PUBLIC SAFETY BENEFITS



IMPROVED SURVEILLANCE

Monitor **large crowds** during public events, protests, or gatherings, providing **real-time aerial views**



ENHANCED OPERATIONS

Monitor wildfires, **providing real-time data** on the spread and intensity of the fire, helping firefighters **strategize their response**



DISASTER RECOVERY

Drones can **survey large areas** quickly to assess the extent of damage to infrastructure, helping **prioritize recovery efforts**



AEC & SURVEYING BENEFITS



IMPROVED EFFICIENCY

Increased efficiency of geographic information collection & streamline data processing



REDUCED COST

Save on equipment & labor costs by automating data collection and analysis with drone & software solutions



ENHANCED SAFETY

Using drones to automate manual tasks that typically require working at height or in dangerous environments



POWERFUL INSIGHTS

Accurate aerial data to create industry-standard deliverables such as DSM, DOM, and 3D models with drone and software solutions





ENERGY & UTILITIES INDUSTRY



Applications of Drone in Energy & Utilities Industry

- **Infrastructure Inspection**
- **Surveying and Mapping**
 - Site Assessment
 - Environmental Monitoring
- **Vegetation Management**
- **Emergency Response**
 - Intrusion Detection

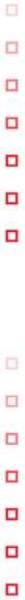
Relevant Models



Dock 2 + Matrice 3TD



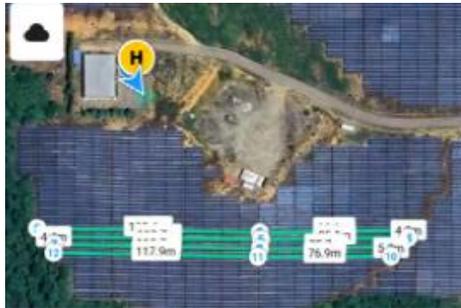
Matrice 350RTK + Zenmuse H30



DOCK 2 WITH MATRICE 3TD IN SOLAR FARM THERMAL MAPPING



DJI FlightHub 2



Waypoint Route

1. Mission Planning

- By using DJI FlightHub 2, the mission can be **planned and designed** for **thermal mapping of solar farm**.



Dock 2 + M3TD



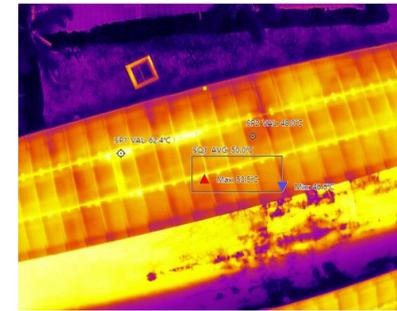
Mapping Data Acquisition

2. Data Acquisition

- M3TD executes the mission planned **automatically** for data acquisition process.



DJI Thermal Analysis Tool 3



Thermal Image Analysis

3. Analysis/Report

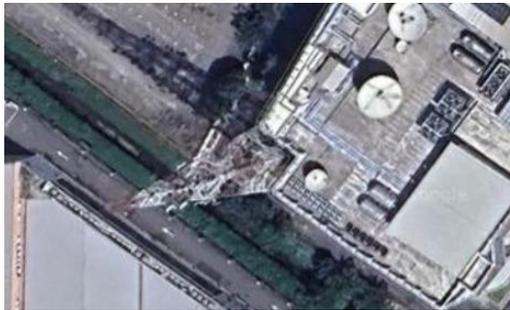
- By using DJI Thermal Analysis Tool 3, the **defect** of solar panel can be detected from the **abnormality of temperature**.



MATRICE 350 RTK WITH H30 IN TELCO TOWER INSPECTION



DJI Pilot 2



Manual Flight



M350 RTK

H30



Telco Tower Inspection



DJI FlightHub 2



Power Control Box Image

1. Mission Planning

- By using DJI Pilot 2, the mission for manual flight can be **planned and designed**.

2. Data Acquisition

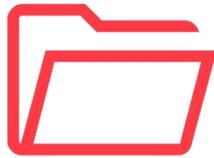
- H30 allows the inspection of telco tower from **safe distances** with **multiple angles**.

3. Analysis/Report

- The cover of the power control box is **missing** which can **lead to incidents**. The structure of the box is also **rusted**.



ENERGY & UTILITIES BENEFITS OF USING DRONES



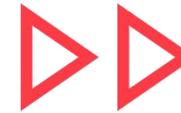
BETTER DATA

Teams will benefit from a **higher level of detail** compared to typical ground or helicopter patrols, and thermal imagery can quickly **identify hot spots**.



REDUCED RISK

Crews can get a **close-up view** of a **potential defect** without climbing, using a bucket truck or high-cost helicopter.



FAST RESPONSE

Drones can collect information that can **safely speed up** any help you send the right equipment and personnel to the right location in order to **restore power as efficiently** as possible.



Applications of Drone in Oil & Gas Industry

- **Inspection & Maintenance**
 - Pipeline Inspection
 - Tank & Flare Stack Inspection
- **Surveying and Mapping**
- **Emergency Response**
 - Disaster Assessment
- **Security and Surveillance**
 - Perimeter Security

Relevant Models



Matrice 350RTK + Zenmuse L2



Matrice 350RTK + Zenmuse H30T



MATRICE 350 RTK WITH L2 IN OIL & GAS PLANT MAPPING



DJI Pilot 2



Area Route



M350 RTK

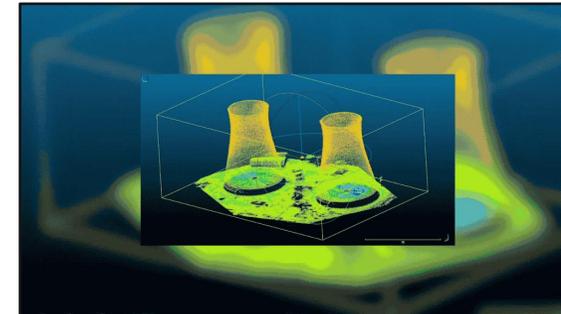
L2



Mapping Data Acquisition



DJI Terra



Plant 3D Model

1. Mission Planning

- By using DJI Pilot 2, the mission can be **planned and designed** for **mapping of plant**.

2. Data Acquisition

- L2 allows data acquisition on the **hardly accessible areas** from safe distance and has higher **area coverage**.

3. Analysis/Report

- 3D model is generated using DJI Terra and can be applied in **inspection or documentation purposes**.



MATRICE 350 RTK WITH H30T IN OIL & GAS INSPECTION



DJI Pilot 2



Manual Flight



M350 RTK

H30T



Tank Thermal Inspection



DJI FlightHub 2



Tank Thermal Image

1. Mission Planning

- By using DJI Pilot 2, the mission for manual flight can be **planned and designed for regular inspection.**

2. Data Acquisition

- As H30T has **large area coverage**, inspection is conducted despite having **active plants.**

3. Analysis/Report

- **Structural integrity** of the tank can be evaluated to detect **signs of leaks, overheating, or insulation failure.**



BENEFIT OF DRONES IN OIL & GAS



SAFETY IMPROVEMENT

Drones access **hazardous and remote locations**, **reducing risky tasks** for human workers and enhancing personnel safety.



COST EFFICIENCY

Drones conduct inspections and monitoring **more efficiently and at a lower cost** than traditional methods. This leads to significant savings in operational expenses.



TIME SAVINGS

Drones provide **real-time data collection and analysis**, enabling faster and informed decision-making, thereby improving **operational efficiency**.



ASSET INSPECTION

Drones equipped with specialized cameras and sensors **inspect infrastructure, identifying corrosion, leaks, and damage** early on, minimizing downtime and expensive repairs.



Applications of Drone in Agriculture Industry

- **Crop Monitoring and Health Assessment**
 - Precision Agriculture
 - Plant Disease Detection
- **Field Mapping and Surveying**
 - Soil & Field Analysis
- **Livestock Monitoring**
- **Environmental Inspection**

Relevant Models



Mavic 3M



Dock 2 + Matrice 3TD



MAVIC 3M IN MULTISPECTRAL MAPPING OF CROP



DJI Pilot 2



Area Route



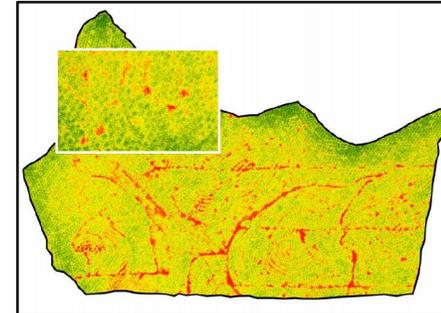
M3M



Mapping Data Acquisition



DJI Terra



Multispectral Map

1. Mission Planning

- By using DJI Pilot 2, the mission can be **planned and designed** for **mapping** of crop.

2. Data Acquisition

- M3M executes the mission planned **automatically** for data acquisition process.

3. Analysis/Report

- The map generated **identify nutrient deficiencies** in crops by analyzing their **reflectance in different wavelengths**.



DOCK 2 WITH MATRICE 3TD IN THERMAL INSPECTION AND PROGRESS MAPPING OF PLANTATION



DJI Pilot 2



Area Route

- ### 1. Mission Planning
- By using DJI Pilot 2, the mission can be **planned and designed** for **mapping** of oil palm plantation.



Dock 2 + M3TD

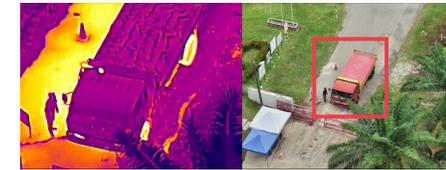


Mapping Data Acquisition

- ### 2. Data Acquisition
- M3TD executes the mission planned **automatically** for data acquisition process.



DJI FlightHub 2



Thermal Inspection



Progress Map

- ### 3. Analysis/Report
- By using FlightHub 2, the map models can be **generated and compared** to track the plantation **growth and status**.



BENEFIT OF DRONES IN AGRICULTURE INDUSTRY



TIMELY MONITORING AND EARLY DETECTION

Multispectral drones enable **frequent monitoring** of crops during the growing season, helping farmers detect issues like **weather-related stress or pest infestations early on**. This allows farmers to take prompt corrective actions.



COST-EFFECTIVENESS

Multispectral drones provide a cost-effective alternative to traditional crop monitoring methods like **ground-based scouting or manned aircraft**. They offer more **comprehensive and detailed data**, saving farmers time and resources.



NON-INVASIVE AND FLEXIBLE

Drones are non-intrusive and flexible for data collection since they can fly over fields **without causing soil compaction or crop damage**. They can reach **challenging areas** that traditional methods may struggle to access.



ENVIRONMENTAL SUSTAINABILITY

Adopting precision agriculture with multispectral drones helps farmers **reduce fertilizer and pesticide use**, promoting **sustainable farming** with a lower environmental impact.



DJI DELIVERY



DJI FlyCart 30

- 30 kg Max Payload
- 28 km Flight Distance without Payload
- 16 km Flight Distance with Full Payload
- IP55 Ingress Protection Rating
- Max Operating Altitude: 6000 m



DJI FlyCart 100

- 85 kg Max Payload
- 26 km Flight Distance without Payload
- 12 km Flight Distance with Full Payload
- IP55 Ingress Protection Rating
- Max Operating Altitude: 6000 m

DJI DeliveryHub

- One-stop air delivery management platform
- Remotely create, schedule & allocate tasks and devices
- Livestream from multiple different devices
- Mission Planning
- Alternate Landing Site Management



FLYCART 30 IN SOLAR FARM



DJI DeliveryHub



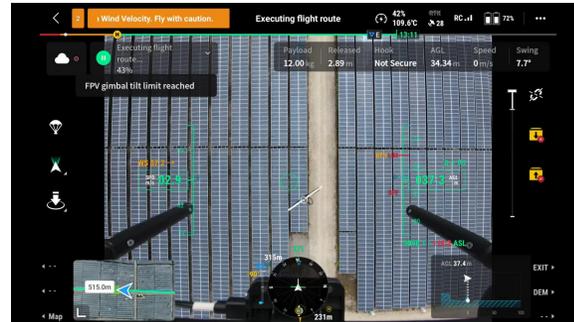
Waypoint Flight



FlyCart 100



DJI DeliveryHub



Solar Panel Transporting



DJI DeliveryHub



Data Statistics

1. Mission Planning

- During solar panel replacement, **waypoint mission** can be planned in DJI DeliveryHub.

2. Data Acquisition

- **Displaying of livestreaming** of DJI DeliveryHub on solar panel replacement operation **share operation messages to teammates.**

3. Analysis/Report

- After the mission execution is completed, DJI Deliveryhub able to **generate reports and the statistics** based on **specific dates, drone and flight routes.**

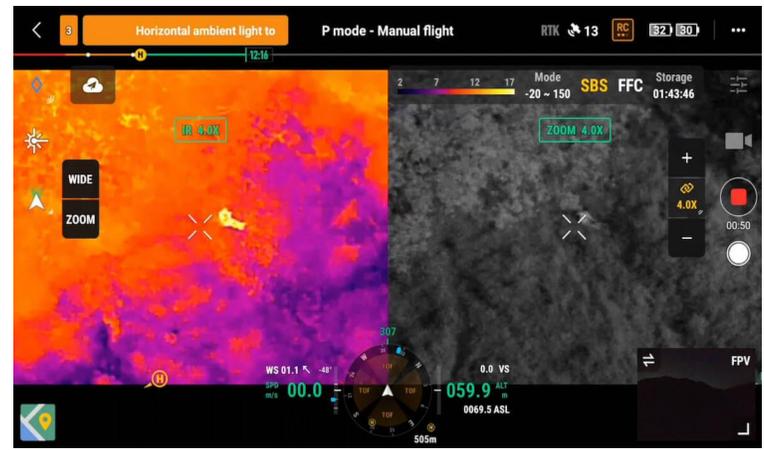
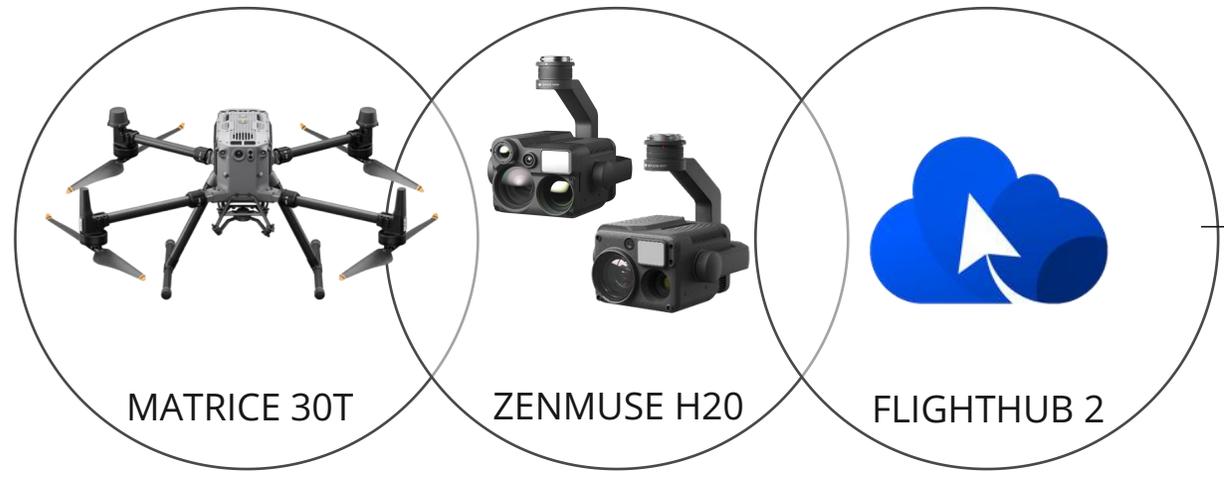
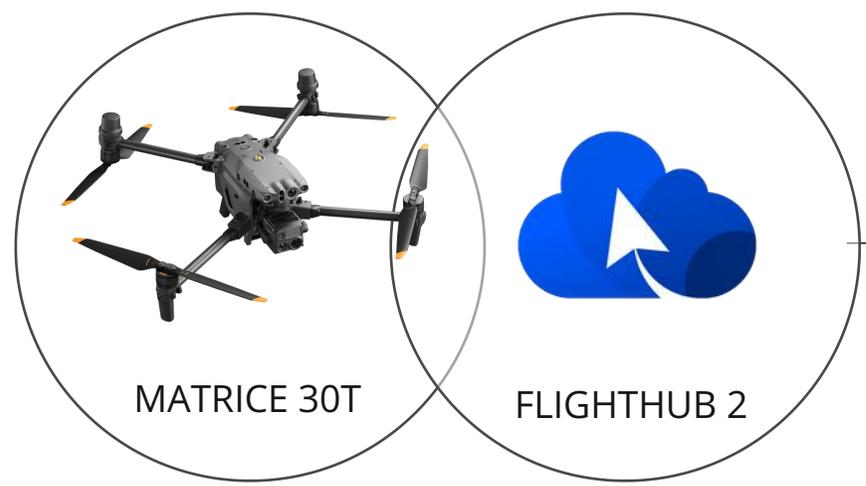


FLYCART 30 IN VIETNAM (VSP)



www.aonic.com

PUBLIC SAFETY RECOMMENDED DRONES



PUBLIC SAFETY APPLICATIONS



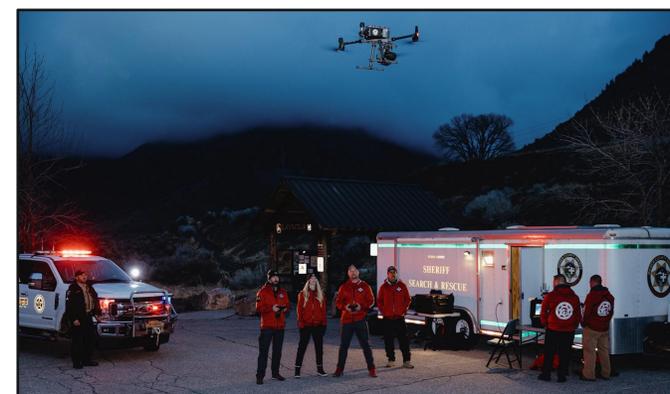
FIRE FIGHTERS

DJI technology arms firefighters with aerial insight enabling rapid, efficient, and informed decisions to maximize safety



LAW ENFORCEMENTS

Drones are becoming critical tools for law enforcement agencies, enabling greater safety, quicker response, and better decisions.

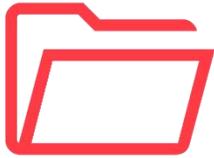


SEARCH & RESCUES

Emergency responders can identify targets and deploy care faster thanks to the overhead guidance DJI drones provide.



ENERGY & UTILITY BENEFITS OF USING DRONES



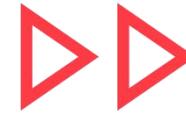
BETTER DATA

Teams will benefit from a higher level of detail compared to typical ground or helicopter patrols, and thermal imagery can quickly identify hot spots.



REDUCED RISK

Crews can get a close-up view of a potential defect without climbing, using a bucket truck or high-cost helicopter.



FAST RESPONSE

Drones can collect information that can safely speed up any help you send the right equipment and personnel to the right location in order to restore power as efficiently as possible.





DIGITALIZATION

- Transmission/distribution lines digitalization and vegetation management
- 3D modelling of the substation



INSPECTION

- Line inspections with visual/thermal cameras
- Automated inspections
- Emergency response after storm
- Wildfire prevention



BENEFIT OF DRONES IN OIL & GAS



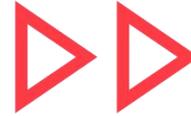
SAFETY IMPROVEMENT

Drones access hazardous and remote locations, reducing risky tasks for human workers and enhancing personnel safety.



COST EFFICIENCY

Drones conduct inspections and monitoring more efficiently and at a lower cost than traditional methods. This leads to significant savings in operational expenses.



TIME SAVINGS

Drones provide real-time data collection and analysis, enabling faster and informed decision-making, thereby improving operational efficiency.



ASSET INSPECTION

Drones equipped with specialized cameras and sensors inspect infrastructure, identifying corrosion, leaks, and damage early on, minimizing downtime and expensive repairs.





OIL & GAS INDUSTRY

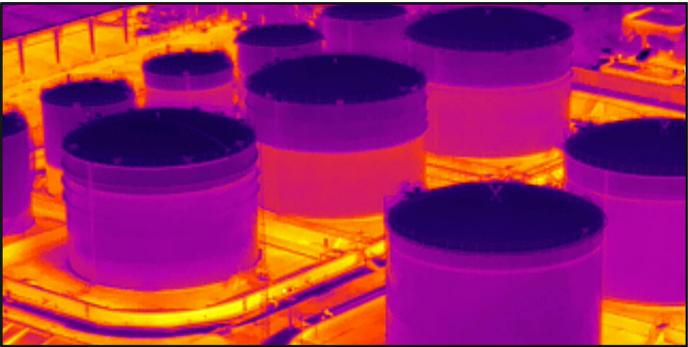
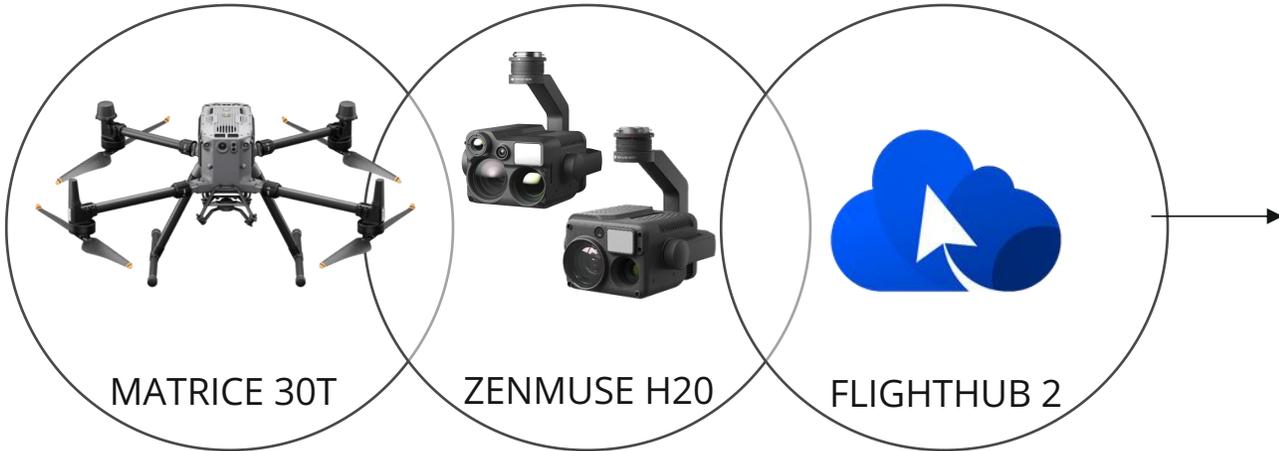
The oil and gas industry is known for its complex and dangerous work, making safety, efficiency, and cost-effectiveness crucial for success. Drones have recently transformed the industry by offering many advantages in various operations. Drones, or unmanned aerial vehicles (UAVs), are now essential tools that simplify processes, improve data collection, and enhance decision-making, fundamentally changing how oil and gas companies do their work.



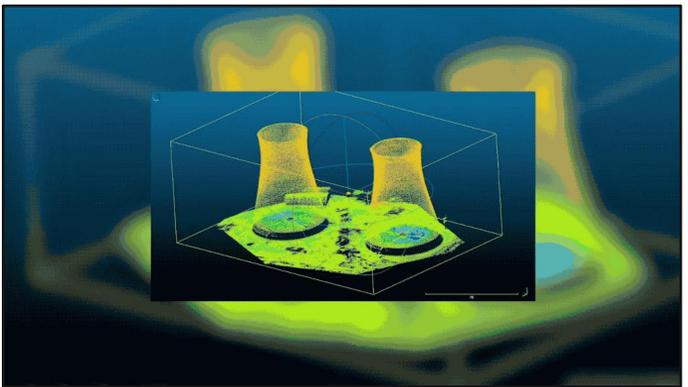
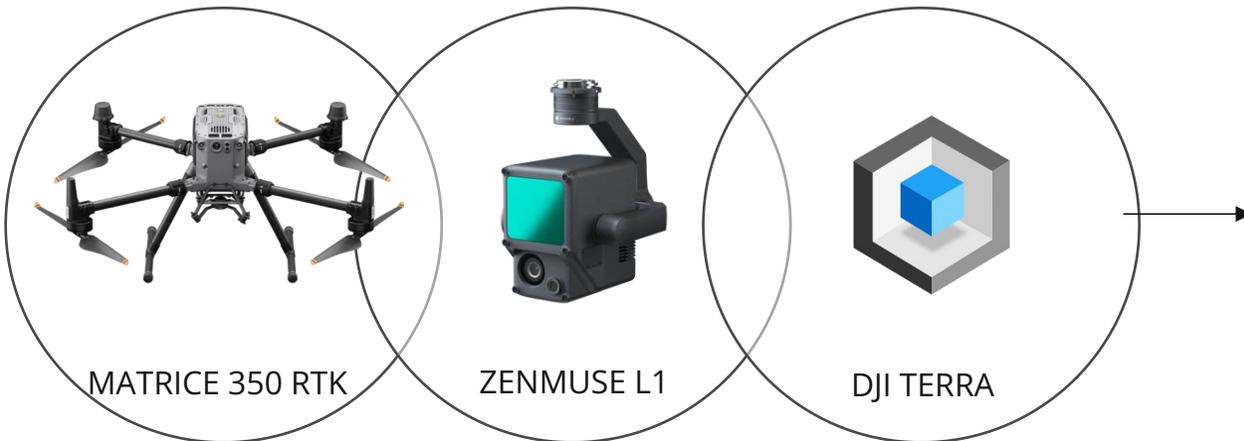
OIL & GAS RECOMMENDED DRONES



AONIC



INSPECTION



DIGITAL MODEL

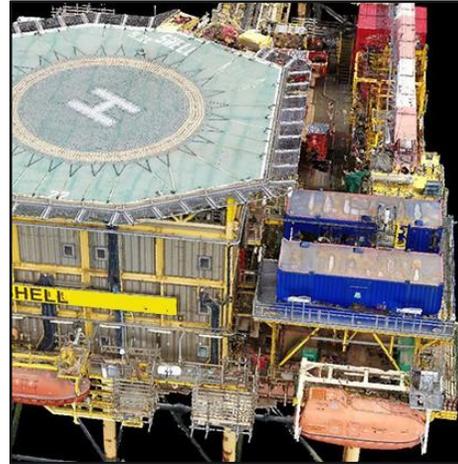


APPLICATION OF DRONES IN OIL & GAS



Monitoring Environment

Drones with thermal cameras and gas sensors detect emissions from facilities, aiding environmental compliance. They also track wildlife in sensitive areas, helping companies minimize their impact on ecosystems.



Exploration and Surveying

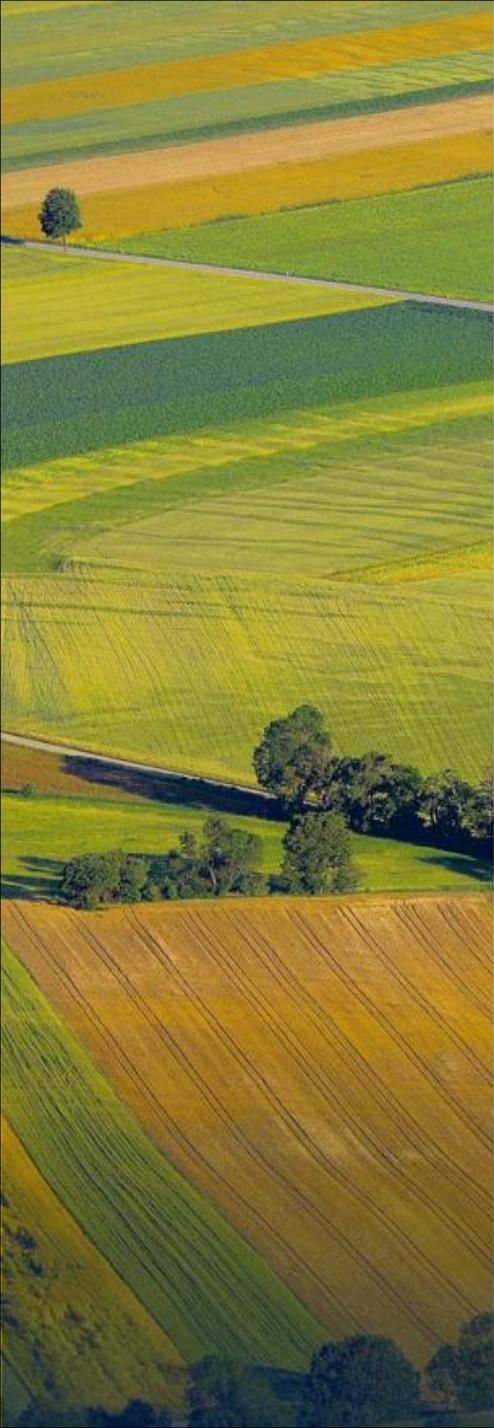
Drones simplify exploration and surveying by conducting aerial surveys over difficult terrains. They use high-resolution cameras and LiDAR technology for detailed mapping, reducing exploration costs and improving decision-making.



Emergency Response

Drones play a crucial role in emergency response and disaster management. They survey affected areas, assess damages, and provide vital information to aid efficient resource allocation for response teams.





AGRICULTURE INDUSTRY

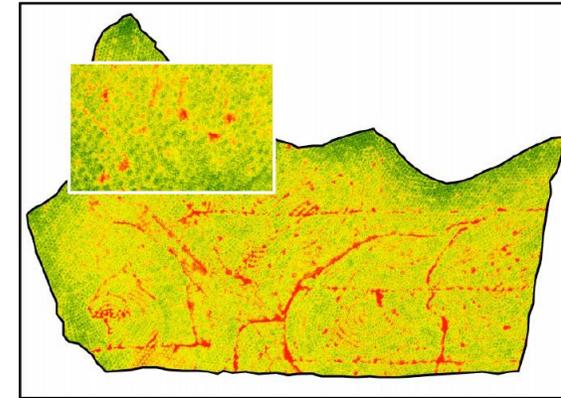
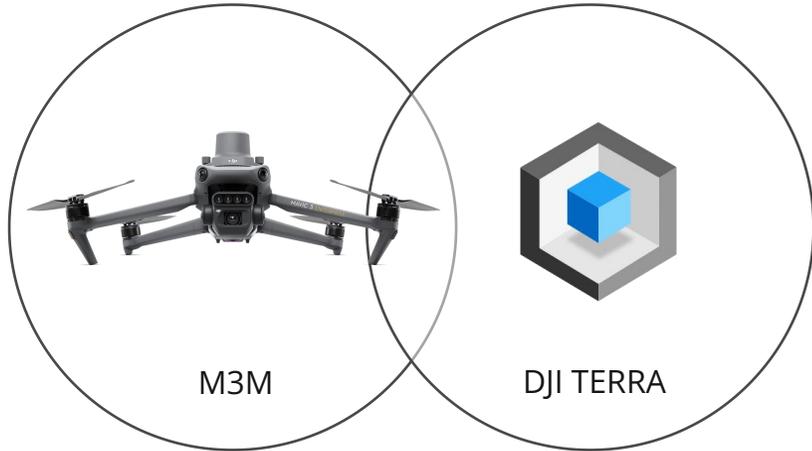
Drone technology has become increasingly popular and valuable in the agriculture industry. It involves using drones equipped with multispectral sensors to capture data in multiple bands of the electromagnetic spectrum, beyond just the visible light spectrum that the human eye can perceive. These sensors can detect different wavelengths of light, such as near-infrared (NIR), red edge, and thermal infrared, among others.



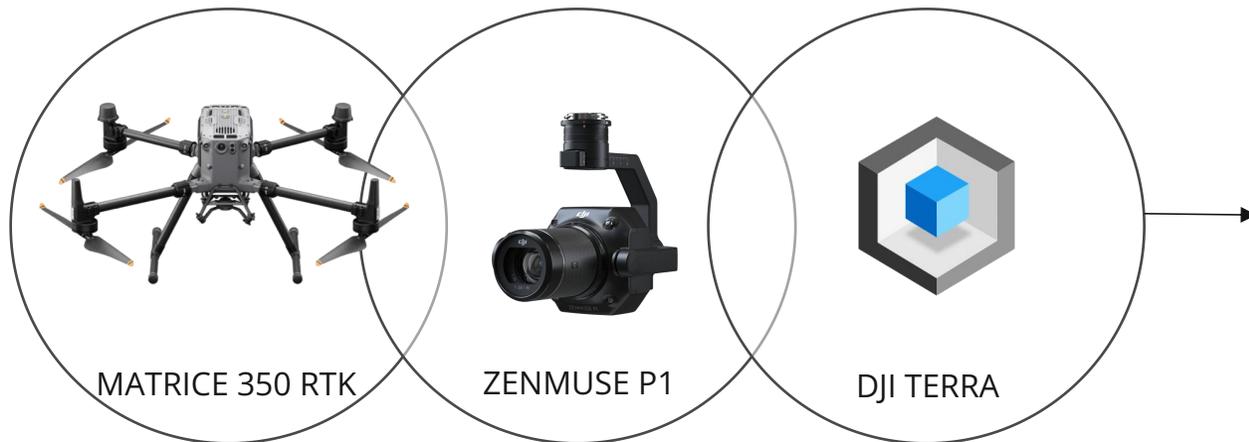
AGRICULTURE RECOMMENDED DRONES



AONIC



MULTISPECTRAL MAP



RASTER MAP



INSPECTION – UNDER WATER DRONE (ROV-USV)



Applications of Drone in Infrastructure (Underwater)

- **Infrastructure Inspection**
 - Propellers Inspection
 - Shipment Inspection
- **Surveying and Mapping (lake, river, dam,..)**
 - Site Assessment
 - Environmental Monitoring
 - Mud sample
 - Water Quality sample

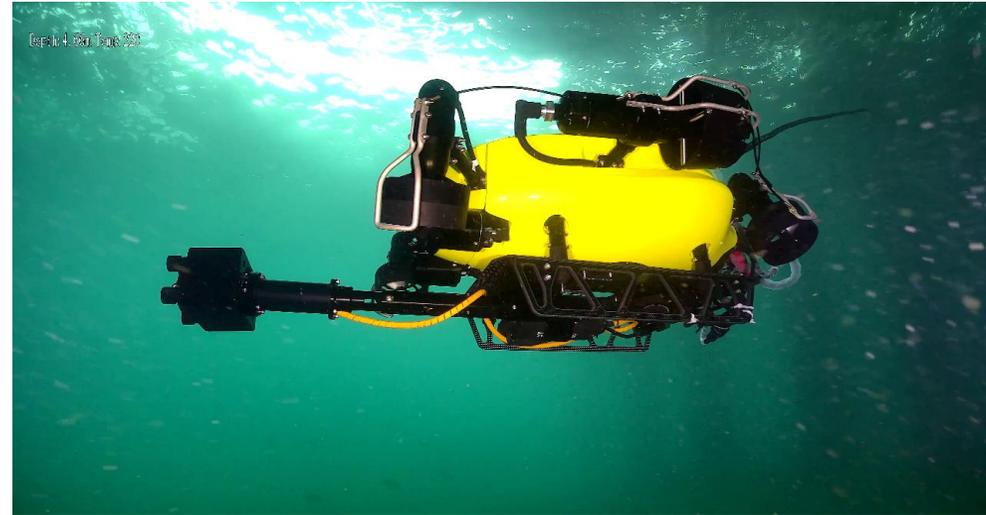
Relevant Models



ROV E-MASTER/NAVI



FIFISH X1



- Speed** : 4.5Knots
- Depth Rating** : 350m
- Operating time** : 24/7
- Led** : 6000 Lumen LED x 2
- Camera** : Video 4K UHD
Photo format JPEG, DNG



Application



Offshore Oil & Gas

- Jacket / pile-foundation inspection (weld inspection, defect sizing)
- Marine growth removal (barnacles, algae, etc.)
- Sacrificial anode potential survey (CP)
- Ultrasonic thickness gauging (UTG), wall-loss / corrosion assessment
- Scour / undercutting risk assessment (legs / foundations)



Offshore Wind

- Monopile / jacket structure cleaning (fouling removal)
- Monopile wall-thickness & anode measurements (UTG / CP)
- Crack / pitting sizing (QY-MT AI measurement)
- 3D scour-pit mapping (Q-DVL altitude-hold & surface-follow)
- Close visual inspection of TP access and cable-entry areas



Direct Power Supply
Supports All-weather, Long-range, Long-duration Missions

Safety note: When using the direct power supply system, do not operate alongside divers



Application



Subsea Infrastructure

- UTG of civil/port structures: sheet piles, gates, jetty members
- Cathodic protection : anode potentials & compliance assessment
- Crack / spalling / pitting sizing (QY-MT AI measurement)
- Scour / undermining survey (piers / revetments) and 3D mapping
- Marine growth cleaning & antifouling maintenance

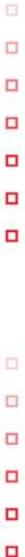
Maritime & Shipping

- Hull thickness gauging (UTG): bow/stern, bilge, shell plating
- Marine growth removal (improved antifouling performance)
- Anode condition monitoring (CP potentials / consumption)
- Hull structural monitoring (welds / external outfitings)
- Rapid underwater turn-around survey during port stay



Ship's Rudder

Identify & asses rust, damage marks, barnacle growth & more



INSPECTION – UNDER WATER DRONE (ROV-USV)



INSPECTION – UNDER WATER DRONE (ROV-USV)



Underwater footage of 4 cylinders



X1 inspection cylinders

X1 Advantages:

- Equipped with a 4K camera and 166° ultra-wide-angle view for precise and detailed visuals.
- Built-in 12,000-lumen LED lights enhance clarity in low-light conditions.
- Six degrees of freedom enable agile movement in complex waters.
- With anti-current capability of 4 knots and Station Lock, it ensures stability in dynamic water flows.



INSPECTION – UNDER WATER DRONE (ROV-USV)



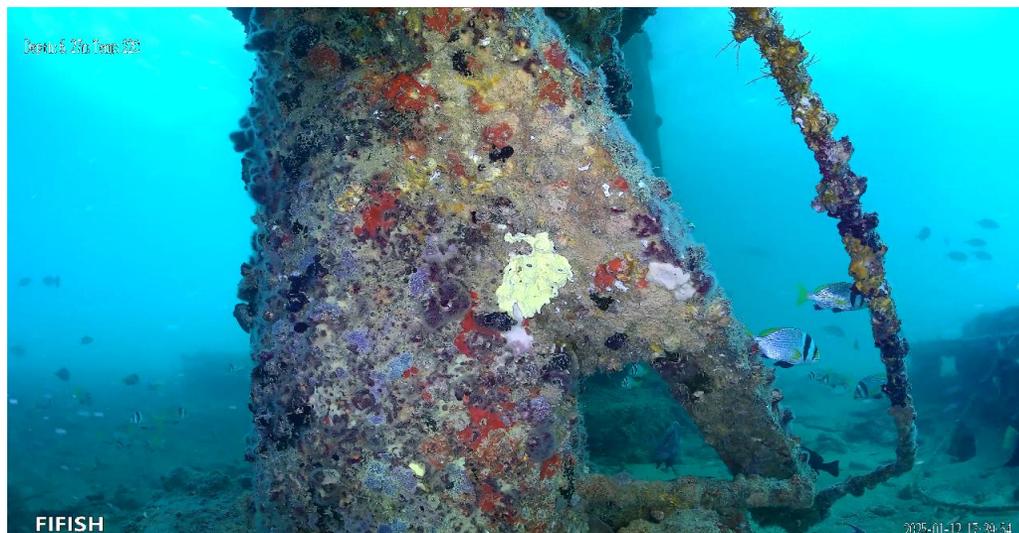
FIFISH

Inspection of the upper part of the cylinder



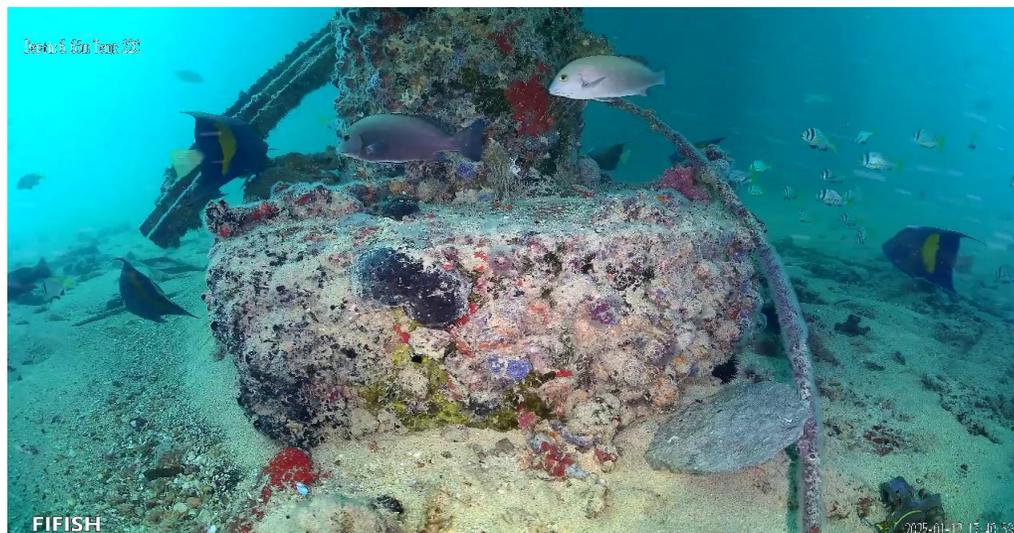
FIFISH

Inspection of the cylinder protective net



FIFISH

Inspection of the Sacrificial anode block

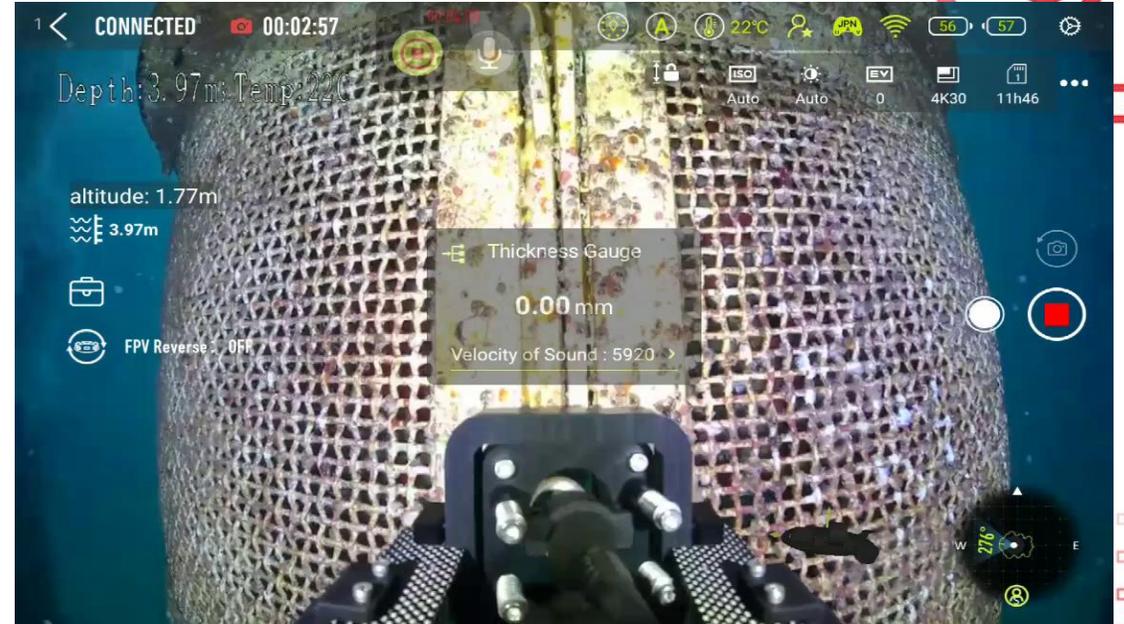


FIFISH

Inspection of the cylinder base



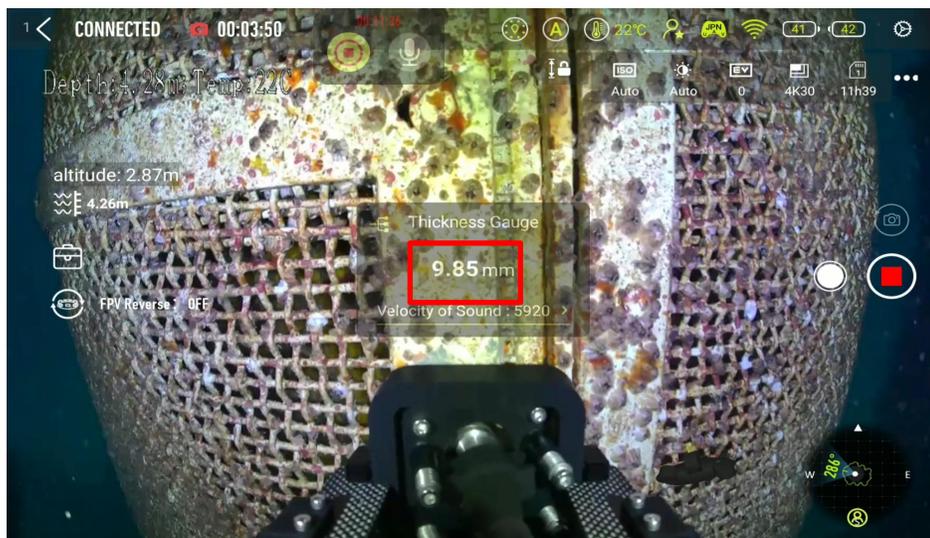
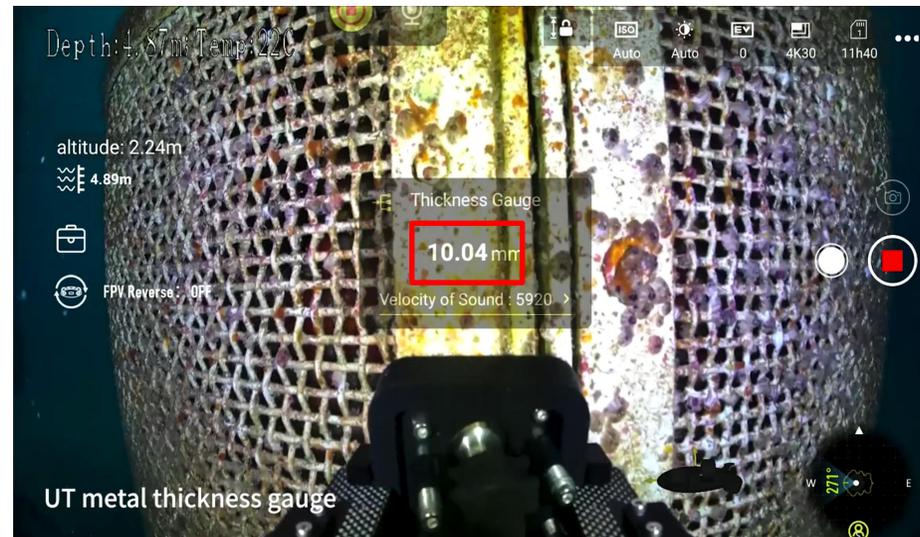
INSPECTION – UNDER WATER DRONE (ROV-USV)



X1 Advantages:

- Modular UT design, supports quick replacement, making it easy for on-site operations and maintenance.
- The UT probe can automatically adapt to the surface of the measured object and features a cushioning design, reducing operational difficulty and providing good protection for the equipment.
- Test data is displayed in real-time on the app, with test images and measurement data presented simultaneously, enhancing operational intuitiveness.
- Measurement data is automatically saved**, facilitating later analysis and processing, ensuring data integrity and traceability.

INSPECTION – UNDER WATER DRONE (ROV-USV)



INSPECTION – UNDER WATER DRONE (ROV-USV)



X1 Advantages:

- The cavitation jet gun features a modular design, allowing for quick installation and replacement, ensuring convenient on-site operation and maintenance;
- Equipped with the Station Lock function, X1 maintains a stable posture and position during marine biofouling cleaning, significantly improving operational efficiency;
- With six degrees of freedom motion capability, X1 can adapt to complex environments and efficiently clean marine organisms from any location.



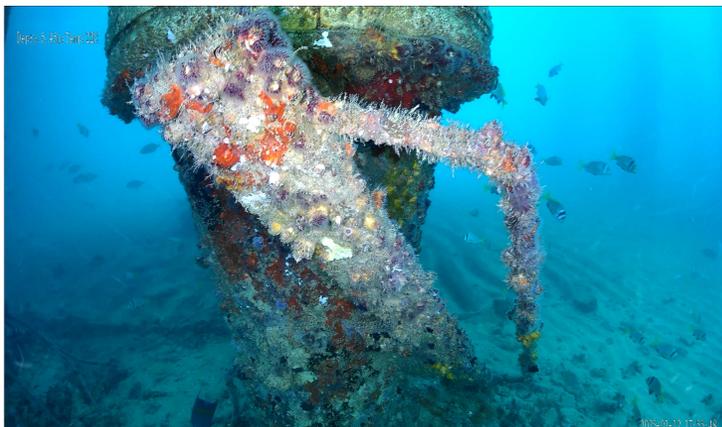
INSPECTION – CATHODIC PROTECTION TEST



X1 Advantages:

- The CP system utilizes a modular design, enabling quick installation and disassembly, significantly enhancing operational efficiency.
- CP measurement data is displayed in real-time on the dedicated app and automatically links and saves test data with corresponding measurement images, ensuring efficient and accurate data management.
- Leveraging six-degree-of-freedom motion capability and the Station Lock function, X1 can accurately measure CP data at any location in the water, offering high adaptability to various operational scenarios.

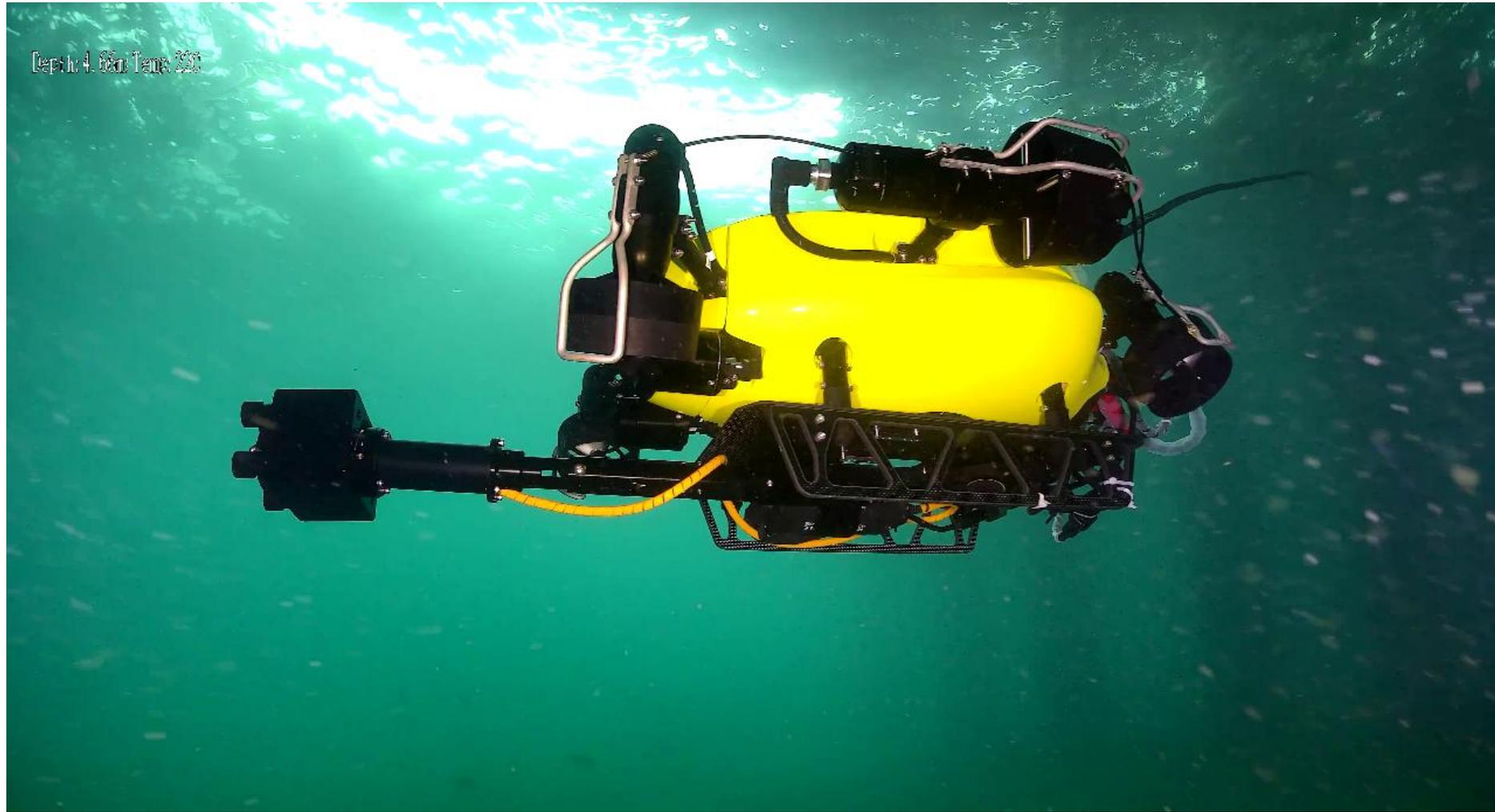
INSPECTION – UNDER WATER DRONE (ROV-USV)



Sacrificial anode



INSPECTION – UNDER WATER DRONE (ROV-USV)



FIFISH E-MASTER NAVI



Fifish E-Master is an unmanned underwater vehicle (ROV) designed for measurement, inspection, and underwater surveying tasks. The device integrates advanced AI technology, a sonar system, a laser scaler, and an ultra-wide-angle 4K camera to collect precise data in underwater environments that are difficult for humans to access.



Underwater Filming



Ocean Exploration



Recreational



Aquaculture



Underwater Operation



Public Safety & Law
Enforcement



Speed : Maximum 3 knots
Depth Rating : 200m
Operating time : 2.5hrs
Led : 5000 Lumen LED x 2
Camera : Video 4K UHD
Photo format JPEG, DNG



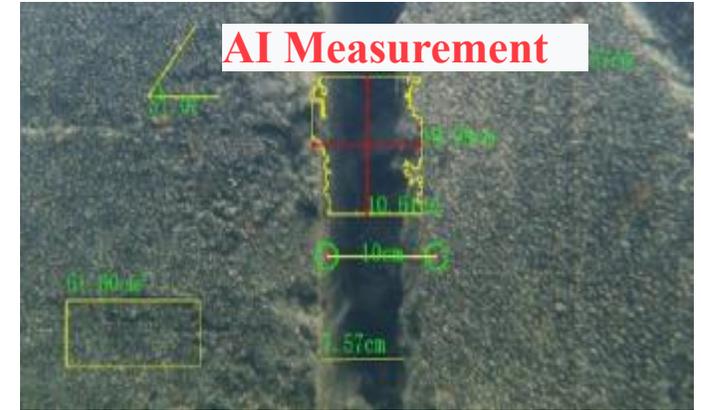
OUTSTANDING FEATURES



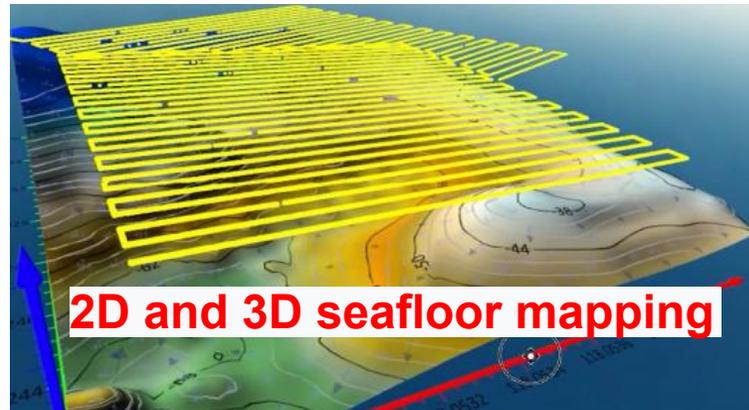
AI Vision Lock



Vertical Station Lock



AI Measurement



2D and 3D seafloor mapping



Fish E-Master Navi



Check pipes



Check pipes



CHECK THE PIPES IN THE WATER TANK

BENEFIT OF DRONES IN AGRICULTURE INDUSTRY



Timely monitoring and early detection

Multispectral drones enable frequent monitoring of crops during the growing season, helping farmers detect issues like weather-related stress or pest infestations early on. This allows farmers to take prompt corrective actions.



Cost-effectiveness

Multispectral drones provide a cost-effective alternative to traditional crop monitoring methods like ground-based scouting or manned aircraft. They offer more comprehensive and detailed data, saving farmers time and resources.



Non-invasive and flexible

Drones are non-intrusive and flexible for data collection since they can fly over fields without causing soil compaction or crop damage. They can reach challenging areas that traditional methods may struggle to access.



Environmental sustainability

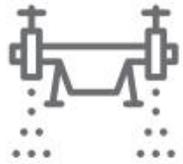
Adopting precision agriculture with multispectral drones helps farmers reduce fertilizer and pesticide use, promoting sustainable farming with a lower environmental impact.



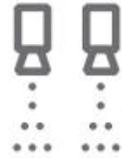
Agriculture | MIST DRONE



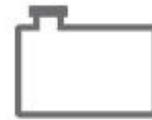
Mist Drone is a blanket spraying drone for paddy, farmland and open field crops, aimed at delivering faster, easier and safer crop spraying for workers and the environment



Blanket Spraying



Adjustable Nozzles



20 to 30 Liters Tank



Coverage of 24 Ha/day

Swappable Tank for Spreader System



Mist NEX



Mist Max



Blanket Spraying

- Function : Blanket Spraying
- Flight Time : up to 10 minutes
- Operating Speed : 6 m/s
- Flow Rate : 5 L/min (max)
- Tank Size : 20L / 30L
- Sensor : Obstacle Avoidance
- GNSS : GPS

Spray Profile Comparison



Y-Shape

Boom

Centrifugal Nozzle



Shower Dispersal

Shower Dispersal

Mist Dispersal



Amist Max spreading



AONIC



Mist Tec 50



Precision Spraying

 50 Liters High tank capacity	 50 Kg The distribution system can be swapped.	 16L/min Spray flow rate per minute	 20 minutes Maximum idle flight time
 RTK RTK module for precise positioning	 Terrain Shape-following flight capability	 Avoid obstacles Advanced sensors	 Fleet Management Manage multiple devices



Mist Tec spraying and spreading



Mist Tec 50
Mode Taburan



+Get in Touch

Duy.quy.vo@aonic.com

+84 909049565

Aonic Vietnam

6 Phung Khac Khoan st, Ward Sai gon,

HCMC, Vietnam

www.aonic.com



REFERENCE LINK



[1. \(Aonic\) Inspection Output Sample.pdf](#)

[2. \(Aonic\) Mapping Output Sample.pdf](#)

