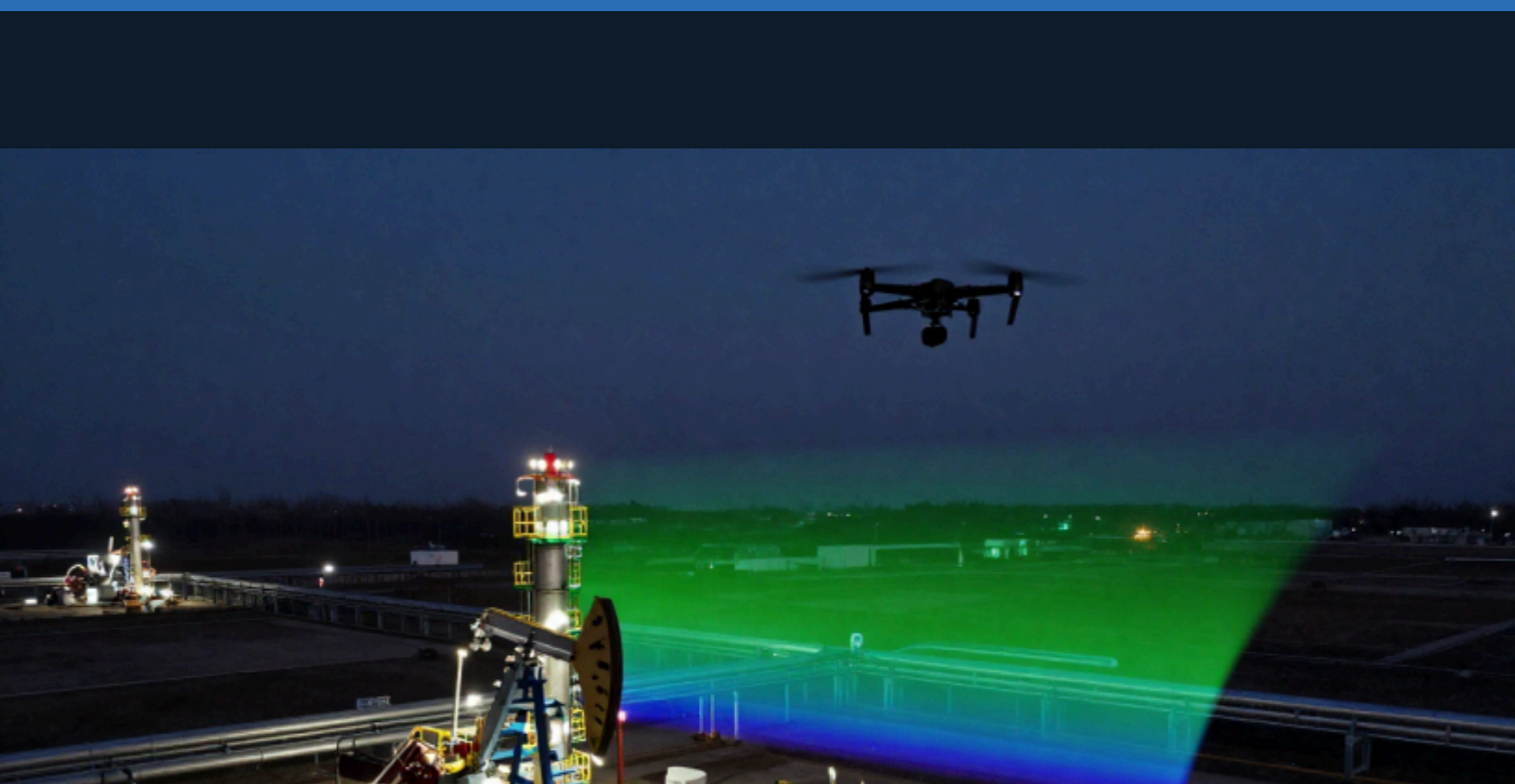
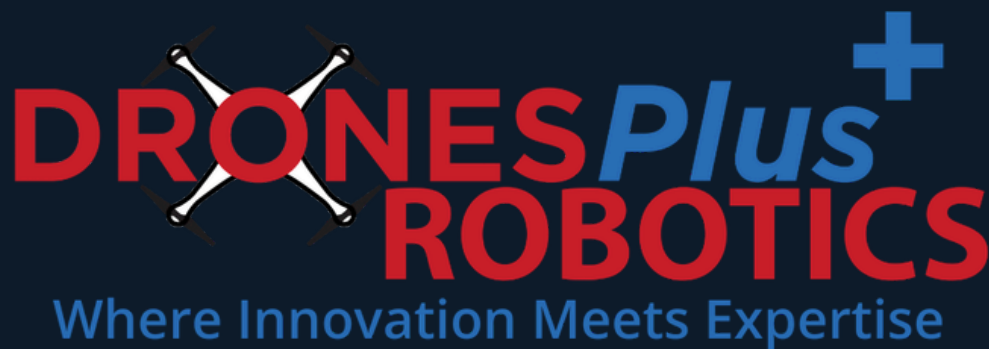




Field Technology Guide for Drone, Robotics, Methane, LiDAR & Inspection Workflows

A Practical Guide for Faster Screening, Smarter Inspection, and Better Field Intelligence



DronesPlusRobotics.com

[Drone, Robotics, Methane, LiDAR & Inspection Equipment + Support](#)

Why Field Technology Workflows Matter

Large infrastructure assets can be difficult, slow, or expensive to inspect manually. Drone, robotics, methane screening, LiDAR, and computer vision workflows help teams collect better field data faster.

Faster screening helps teams prioritize follow-up work. Georeferenced overlays improve decision-making by showing exactly where issues were detected relative to infrastructure.

Repeatable coverage supports inspection, security, environmental monitoring, LDAR programs, and field operations. Remote and automated workflows help reduce the need to place people in hazardous or difficult environments.

Key Benefits

- Rapid screening of hard-to-access assets
- Repeatable coverage for routine monitoring
- Faster triage of suspected issue locations
- Useful outputs for compliance and follow-up teams
- Safer access to difficult or hazardous environments
- Better documentation for field and office teams

A2

Keeping Robots Working in Harsh Industrial Environments

A rugged quadruped robot for inspection, security, field support, and industrial operations in difficult environments. Built for harsh conditions, designed to reduce downtime, support repeatable operations, and lower total cost of ownership. Useful where people face access, safety, terrain, or exposure challenges.

What Does an IP Rating Mean?

The first number relates to protection against solids (dust). The second number relates to protection against water. Higher IP ratings help protect robots operating in harsh environments.

Industrial Robot Protection Levels

IP54

Dust protected and water splashes

IP56

Dust protected and high-pressure water jets

IP67

Dust tight and temporary immersion

Why the Unitree A2 Stands Out

- Extended endurance
- Built for real terrain
- Open development platform
- Industrial payload
- Advanced perception

Applications

Security inspections

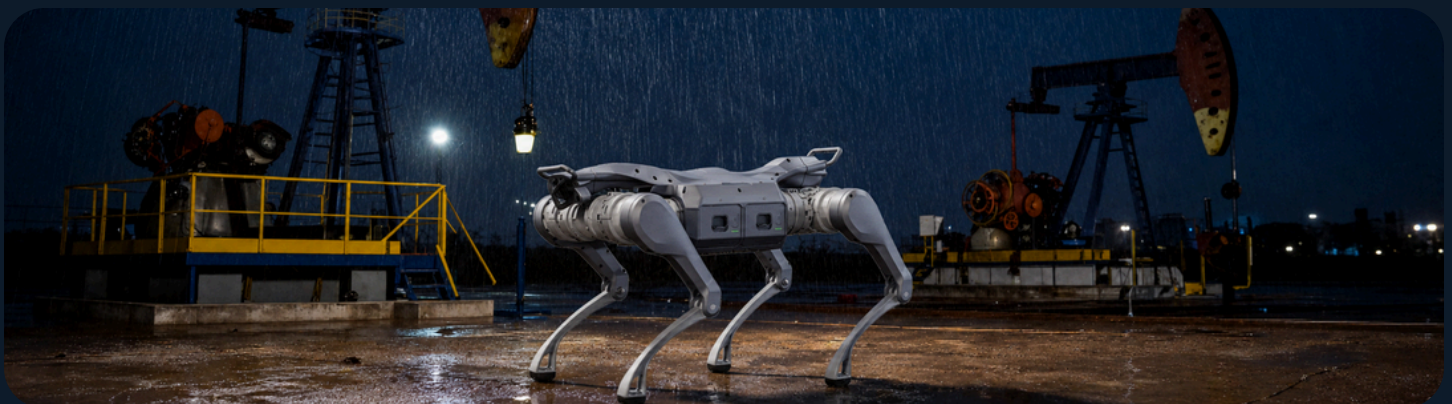
Industrial inspection

Oil and gas

Fire and rescue

Construction

Emergency response



AIRINS.ai

Visualization, Analysis, and Reporting for Methane Screening Workflows

Software for visualizing, analyzing, and reporting methane screening data from field missions. Supports MetScan workflows, helps teams review 2D and 3D methane maps, suspected hotspot identification, mission review, and structured follow-up-ready outputs for LDAR, environmental monitoring, pipeline and facility screening.

How the System Works

1 Scan

Belt scan or sector scan.

2 Sync

Upload mission data and video.

3 Analyze

Review interactive 2D and 3D methane maps.

4 Report

Generate structured outputs for follow-up.

Application Modes

Pipelines: Belt Scan

Routine methane screening across long linear assets with repeatable georeferenced coverage.

Facilities: Sector / Belt Scan

Screen sites, pads, stations, plants, and selected operating areas.

AIRINS.ai: Visualize & Report

Review 2D and 3D methane maps, rank suspected hotspots, and export structured reports.

Follow-Up Outputs

- Reports
- DOCX reports
- SHP files
- GIS-ready exports
- CSV exports
- Maps
- PDF reports
- JSON exports
- Shareable outputs

Why It Matters

- Rapid screening of difficult-to-access assets
- Repeatable coverage for routine LDAR programs
- Geo-referenced methane overlays with visual context
- Faster triage of suspected leak locations
- Useful outputs for field follow-up and documentation



Dock 3 + Matrice 4TD

Put Eyes on Assets Without Putting People on Site

An autonomous drone operations system for remote inspection, monitoring, scheduled missions, and repeatable site coverage. DJI Dock 3 with Matrice 4TD enables autonomous drone operations for remote monitoring, industrial inspection, security patrols, emergency response, and asset checks without placing people on site.

Key Operational Monitoring Uses

- Remote inspection
- Gas leak monitoring
- Tank inspection
- Facility survey
- Thermal monitoring
- Pipeline survey

Capabilities

Remote operations

Operate from anywhere, review video, and manage missions remotely.

Scheduled inspections

Automate recurring missions, set areas, and fly on a routine schedule.

Methane detection

Identify methane leaks from the air with integrated gas detection options.

Security patrols

Autonomous perimeter monitoring and intrusion detection ready workflows.

24/7 deployment

Reliable operations in a wide range of weather and visibility conditions.

3-mile radius

Extend communications up to 3 miles for larger site coverage.

How It Works

1

Dock houses, charges, and protects the drone.

2

Missions execute on schedule or on demand.

3

Data is transmitted in real time.

4

Drone returns and recharges for next mission.

Fully Automated. Zero Pilot On Site.

Applications

Oil & Gas

Security

Public Safety

Construction



NetXTen

See More Leaks, Miss Fewer Emissions

Computer Vision Assisted Leak Detection for aerial Optical Gas Imaging workflows. NetXTen reveals leaks that can be hard to see with standard OGI alone, helping inspection teams move faster and with greater confidence. It enhances detection of subtle leaks and supports aerial OGI workflows where the drone, operator, and camera are moving.

Standard OGI vs NetXTen Enhanced

Standard OGI

Subtle gas plumes may be difficult to see in real-world field conditions.

NetXTen Enhanced

Enhanced detection of subtle leaks, fewer misses, and clearer field awareness.

How It Works

1

Capture

OGI video captured during inspection.

2

Detect

NetXTen analyzes frames using CV-assisted detection.

3

Real-Time

Potential leak signatures highlighted in real time.

4

Operate

Teams make faster decisions in the field.

Why NetXTen?

NetXTen helps identify gas leaks when:

- The drone is in flight
- Objects are moving in the field of view
- Metal surfaces create thermal noise
- Camera dwell times are short
- The operator has limited OGI experience

Ideal Applications

Oil & Gas Production

Midstream Facilities

Refineries

Tank Farms

Petrochemical Facilities

Environmental Monitoring



Purway

Find and Quantify Methane Leaks Faster

A drone-based real-time methane detection solution that helps teams detect, locate, and quantify emissions across large areas. Supports inspection and reporting workflows from mission planning to actionable reports.

From Mission Plan to Actionable Report

1. Plan

2. Fly

3. Detect

4. Quantify

5. Report

Why Drone-Based Methane Detection?

Traditional Surveys

Walk facility
Drive route
Record observation
Compile report

Purway + Drone

Fly mission
Real-time detection
Quantify emissions
Export report

Purpose-Built for Methane Detection

- Long-range methane detection from a distance
- Integrated RGB camera for clear visual context
- 12 km ranging capability
- Accurate distance measurement
- Lightweight, drone-integrated payload
- Real-time data collection
- Immediate insights in the field

Ideal Applications

Oil & Gas Production

Natural Gas Utilities

Landfills

Environmental Monitoring



S20

Precision 3D Mapping for Real-World Surveying

A compact LiDAR mapping system for real-world 3D capture, surveying, infrastructure mapping, and inspection workflows. Built for mobile 3D reality capture with dual 1-inch sensors, mechanical shutter, high accuracy LiDAR mapping, and high point cloud capture.

What Makes the S20 Different?

Image Quality

Dual 1-inch sensors, mechanical shutter, and clearer field data capture.

Point Cloud

High-density point cloud capture for detailed 3D mapping.

Data Confidence

Accurate GNSS/SLAM mapping, survey workflows, and reliable field outputs.

Open Ecosystem

Flexible workflows for post-processing and data integration.

Key S20 Capabilities

- Real-time point cloud preview
- Survey-grade mapping workflows
- Infrastructure documentation
- Dense point cloud capture
- High-quality imagery
- Corridor and asset capture

Why It Matters

The S20 helps teams improve field capture for:

- As-built surveying
- Digital twins
- Topographic mapping
- Tunnel and utility survey
- Bridge and post-construction inspection
- Asset documentation

Applications

Renovation

As-Built Survey

Topographic Mapping

Tunnel Survey

Power & Utilities



Sniffer4D Airins

Fast Methane Detection and Mapping for Industrial Field Operations

A methane-focused gas detection payload designed for aerial and ground deployment, paired with AIRINS.ai to turn gas sensor readings into actionable visual reports. Built for aerial and ground CH₄ screening with TDLAS methane detection.

Sniffer4D Nano 2 Plus TDLAS

Built for aerial and ground CH₄ screening
0 to 11,000 ppm | 200 ppb LOD | 100 ppb resolution

Why TDLAS Matters

Methane-specific detection

Focused CH₄ signal

Real-time mapping

View concentration patterns as missions are performed

Faster surveys

Cover larger natural gas and landfill sites efficiently

Deployment Options

UAV Integration

DJI Matrice 4TD / DJI Dock 3 integration options.

Ground Vehicle

Road-based screening and site coverage workflows.

Robot Dog

Ground inspection and complex industrial access workflows.

Key Capabilities

- Detection target: Methane CH₄
- Sensing method: Multi-Pass TDLAS
- Linear range: 0 to 11,000 ppm
- Limit of detection: 200 ppb
- Display resolution: 100 ppb
- Real-time interface
- Mission outputs for PDF, DOCX, GIS, animations, and mission review

Why It Matters

- Reduce gas detection time at facilities
- HAZMAT response
- Improved safety through stand-off operation
- Landfills
- Pipeline screening
- Structured reporting for follow-up

AIRINS.ai Advantage

- 2D / 3D gas concentration visualization
- Structured mission reports
- GIS-ready exports
- Slack alerts for leak event monitoring
- Animation playback of readings over time

Which Workflow Fits Your Operation?

Product	Primary Use	Best Fit	Output	Field Value
A2	Robotic inspection & field mobility	Industrial sites, difficult terrain	Visual inspection, patrol data	Safer repeatable robotic operations
AIRINS.ai	Methane visualization & reporting	MetScan, Sniffer4D, LDAR review	2D/3D maps, GIS exports	Follow-up-ready outputs
Dock 3 + Matrice 4TD	Autonomous drone operations	Remote sites, scheduled inspections	RGB, thermal, methane data	Coverage without people on site
NetXTen	CV assisted leak detection	Aerial OGI, real-time visibility	Enhanced OGI video	See more leaks, miss fewer
Purway	Drone methane detection	Oil & gas, utilities, landfills	Detection, quant, reports	Faster methane screening
S20	LiDAR mapping & 3D capture	Surveying, tunnels, construction	Point clouds, 3D maps	High-confidence asset capture
Sniffer4D Airins	Methane detection & mapping	UAV, ground vehicle, robot dog	Gas maps, reports, GIS exports	Flexible aerial & ground screening

How the Field Workflow Comes Together

1

Deploy

Drone, robot, docked drone, sensor, camera, OGI system, or LiDAR system.

2

Capture

Collect visual, thermal, methane, gas, LiDAR, OGI, or inspection data.

3

Analyze

Review maps, overlays, suspected issues, inspection results, point clouds, and mission context.

4

Report

Export follow-up-ready outputs for field crews, documentation, compliance, and review.

5

Act

Prioritize follow-up, repairs, rescreening, maintenance, or additional inspection.

The value is not only the sensor.
The value is the full workflow from field capture to useful follow-up.

Ready to Match the Right Technology to Your Field Workflow?

Drones Plus Robotics helps teams evaluate, purchase, deploy, and support drone, robotics, methane detection, LiDAR, inspection, monitoring, and reporting equipment for real-world field operations.

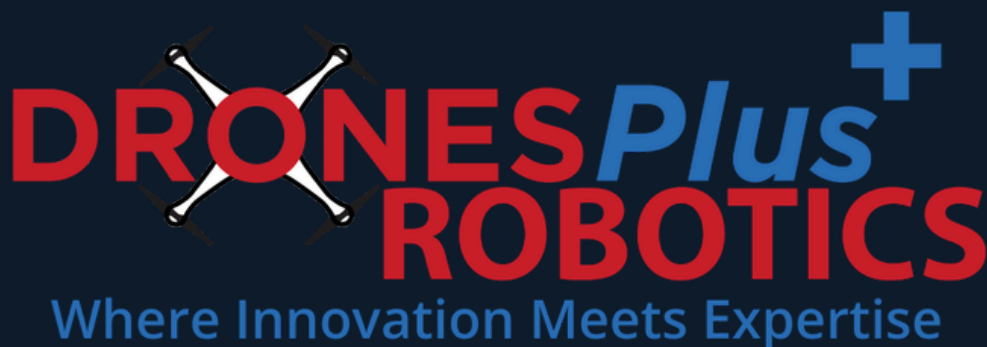
We sell field-ready equipment and support customers with product selection, deployment guidance, training, repairs, and ongoing equipment support.

Next Steps

- Schedule a demo
- Request a consultation
- Compare product options
- Learn more about field-ready drone and robotics workflows

DronesPlusRobotics.com

Drones Plus Robotics



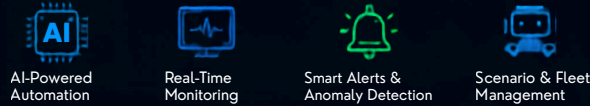
NEUBILITY

AI AUTONOMOUS DRIVING

ROBOT SERVICE

MANAGEMENT PLATFORM

Neubility is an AI-powered platform that enables complete management, monitoring, and optimization of autonomous robots in the field.



PLATFORM HIGHLIGHTS



Integrated Support

Audio / video control and remote support from anywhere



Flexible & Scalable

Adapts to industry-specific and environmental needs



Intuitive Interface

User-friendly UI / UX with no specialized expertise required

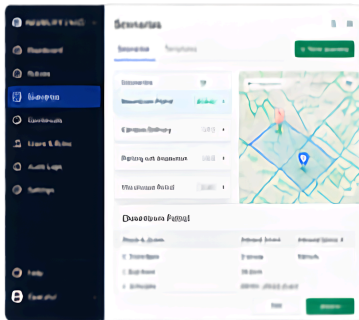


Secure & Reliable

Built for mission-critical operations with high reliability

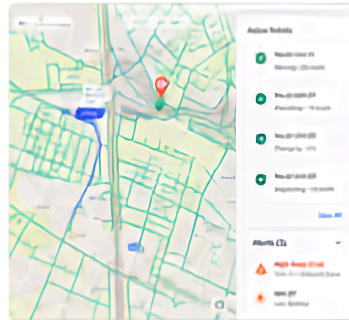
CORE CAPABILITIES

ACCESS & SCENARIO MANAGEMENT



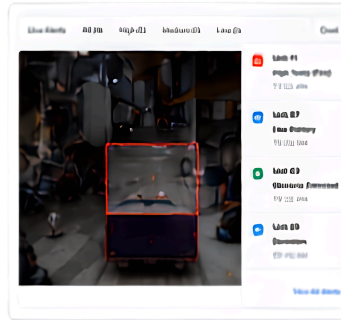
Manage access control and autonomous driving scenarios effortlessly.

REAL-TIME MONITORING



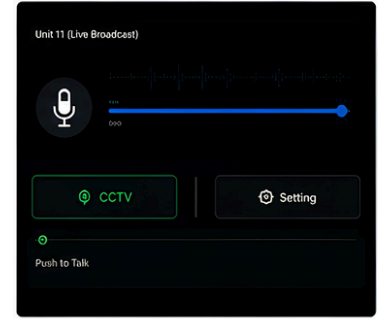
Live tracking, route monitoring, and telemetry in real-time.

ANOMALY DETECTION ALERTS



AI-powered alerts for anomalies and operational issues.

MICROPHONE BROADCASTING



Live voice broadcasting for instant communication and response.

ROBOT CONTROL & OPERATIONS

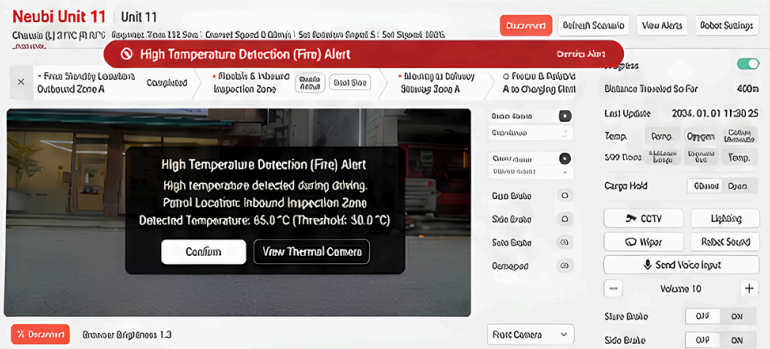
Mission & Route Management

Real-Time Video & Sensor Data

Robot Health & Diagnostics

Remote Control & Intervention

Geofencing & Safety Zones



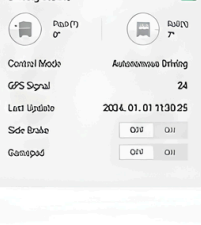
UNIT 11 R&D(PRODUCT) #2

Unit 11 Keyboard Parking Management Required.



UNIT 11

Unit 11 Keyboard Parking Management Required.



KEY BENEFITS



Improved Operational Efficiency

Automate workflows and reduce manual intervention.



Enhanced Situational Awareness

Real-time data and AI alerts enable faster decisions.



Increased Safety & Reliability

Proactive monitoring and anomaly detection prevent incidents.



Scalable & Future-Ready

Built to scale with your operations and evolving needs.



Cost Optimization

Reduce downtime and operational costs with intelligent automation.

POWERING THE FUTURE OF AUTONOMOUS OPERATIONS

Neubility helps you manage smarter, respond faster, and operate safer.

NEUBILITY 

WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

**DRONESPLUS+
ROBOTICS**
DRONESPLUSROBOTICS.COM





AUTONOMOUS METHANE MONITORING

For DJI Dock 3 & Matrice 4TD

Purway TDLAS Laser
Methane Leak Detector Mini

PUT EYES ON ASSETS. PUT SENSORS IN THE AIR.

The Purway TDLAS Mini enables fully autonomous methane inspections using the DJI Dock 3 ecosystem. Inspect pipelines, tank farms, well sites, compressor stations, and critical infrastructure without placing personnel in the field.

NEW FOR 2026



210g

ULTRA LIGHTWEIGHT



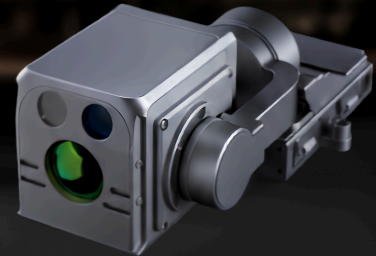
UP TO

100m

DETECTION RANGE



DJI DOCK 3
COMPATIBLE



LIGHT WEIGHT ONLY 210G

Small and lightweight design for
DJI Matrice 4D / 4TD operations.



DETECTION RANGE UP TO 100 METERS

Detect methane remotely
from a safe distance.



DJI DOCK 3 COMPATIBLE

Supports autonomous deployments
and scheduled inspections.



REAL-TIME CLOUD CONNECTIVITY

Upload inspection data automatically
and access results from anywhere.

AUTONOMOUS WORKFLOW

1

DJI DOCK 3

Launch
Scheduled Mission

2

MATRICE 4TD

Collect Methane
Data

3

CLOUD PLATFORM

Review Results &
Generate Reports



SCHEDULED INSPECTIONS

Repeatable and
automated



REMOTE OPERATIONS

Launch from
anywhere



AUTOMATED REPORTING

Data and reports
delivered fast



REDUCED COSTS

Inspect more assets
with less risk

IDEAL APPLICATIONS



OIL & GAS

- Well Pads
- Tank Batteries
- Compressor Stations
- Gathering Systems



UTILITIES

- Gas Distribution
- Storage Facilities
- Critical Infrastructure



ENVIRONMENTAL

- Landfills
- RNG Facilities
- Biogas Operations

SPECIFICATIONS

Weight	210g	Measurement Accuracy	±10% (100-50000 ppm-m)
Detection Range	Up to 100m	Telemetry Range	100m
Sensitivity	5 ppm · m	Detection Laser Safety	Class 3R, avoid direct eye exposure
Response Speed	20 ms	Indication Laser Safety	Class 3R, avoid direct eye exposure

BUILT FOR DJI ECOSYSTEM

dji

DOCK 3



dji

MATRICE 4TD



WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

**DRONES+
ROBOTICS**
DRONESPLUSROBOTICS.COM



dji DOCK 3
+ MATRICE 4TD

PUT EYES ON ASSETS WITHOUT PUTTING PEOPLE ON SITE

AUTONOMOUS DRONE OPERATIONS

DJI Dock 3 with Matrice 4TD enables autonomous drone operations for inspection, monitoring, detection and security—day or night, in any weather.



ENVIRONMENTAL MONITORING

- ✓ Methane Detection
- ✓ Gas Leak Investigation
- ✓ Tank Inspections
- ✓ Flare Monitoring
- ✓ Facility Surveys



REMOTE OPERATIONS

Operate from anywhere.
Real-time control,
live video and data
streaming.



SCHEDULED INSPECTIONS

Automate recurring
missions. Set it once,
fly it every time.



METHANE DETECTION

Identify methane leaks
from the air with
integrated gas
detection options.



SECURITY PATROLS

Autonomous perimeter
monitoring and intrusion
detection—day
or night.



24/7 DEPLOYMENT

Day, night, rain or shine.
Built for all-weather
reliability.



3+ MILE RADIUS

Extend communications
up to 3+ miles for large-
area coverage and
remote sites.

HOW IT WORKS

- 1 Dock 3 houses, charges and protects the drone
- 2 Mission is automatically executed on schedule or on-demand
- 3 Data is transmitted in real-time
- 4 Drone returns, lands and recharges—ready for the next mission



LAUNCH



FULLY AUTOMATED. ZERO PILOT ON SITE.

IDEAL FOR MULTIPLE INDUSTRIES AND MISSIONS



ONE DOCK

Complete autonomous
solution in one package



3+ MILE OPERATIONAL RADIUS

Communicate and operate
up to 3+ miles



24/7 AUTONOMOUS MISSIONS

Always on. Always ready.
Always collecting data.



OIL & GAS

- Methane detection
- Tank & flare inspections
- Pipeline monitoring
- Facility surveys



UTILITIES

- Transmission line inspections
- Substation monitoring
- Storm damage assessment



SECURITY

- Perimeter patrols
- Intrusion detection
- Remote site monitoring
- Rapid response



CONSTRUCTION

- Progress monitoring
- Site documentation
- Volume calculations
- Asset tracking

WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

**DRONESPlus+
ROBOTICS**
DRONESPLUSROBOTICS.COM



FAST METHANE DETECTION & MAPPING FOR INDUSTRIAL FIELD OPERATIONS

Sniffer4D Nano 2 Plus TDLAS is a methane-focused gas detection payload designed for aerial and ground deployment. Paired with AIRINS.ai, it helps teams screen large areas quickly, visualize concentration patterns, and generate actionable reports.

AIRINS

**SNIFFER4D
NANO 2 PLUS TDLAS**

**BUILT FOR AERIAL &
GROUND CH₄ SCREENING**

0-11,000 ppm

200 ppb LOD

100 ppb Resolution

WHY TDLAS MATTERS



Methane-Specific Detection
Focused CH₄ sensing for rapid screening



Real-Time Mapping
View concentration patterns as missions are performed



Faster Surveys
Cover large natural gas and landfill sites efficiently

DEPLOYMENT OPTIONS

UAV Integration



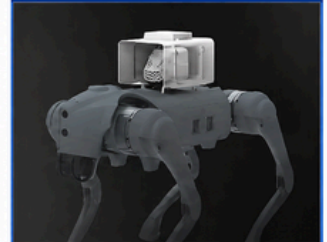
DJI Matrice 4D / 4TD & Dock 3
DJI Matrice 4E / 4T
DJI Matrice 400

Ground Vehicle



Road-based screening and route surveys

Robot Dog



Ground inspection in complex industrial areas

KEY CAPABILITIES

Detection Target	Methane (CH ₄)
Sensing Method	Multi-Pass TDLAS
Linear Range	0 to 11,000 ppm
Limit of Detection	200 ppb
Display Resolution	100 ppb
Real-Time Interface	DJI Pilot App / FlightHub 2
Mission Outputs	PDF, DOCX, CSV, GeoJSON, Shapefile, Animations
Recommended Use	Natural Gas Plants, Landfills, HAZMAT Response

WHY IT MATTERS

- Natural gas facilities
- Landfills
- HAZMAT response
- Rapid area screening
- Improved safety through standoff operation
- Structured reporting for follow-up



Pairing Sniffer4D Nano 2 Plus with AIRINS.ai improves field visibility, speeds decision-making, and simplifies documentation.

BUILT FOR THE REAL WORLD



NATURAL GAS **LANDFILLS** **INDUSTRIAL** **EMERGENCY** **ENVIRONMENTAL**

WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
[DRONESPLUSROBOTICS.COM/EDR-INFO](https://dronesplusrobotics.com/EDR-INFO)

AIRINS.ai ADVANTAGE



- 2D / 3D gas concentration visualization
- Structured mission reports
- GIS-ready exports
- Tabular data for review and recordkeeping
- Animation playback for briefings

**DRONES⁺PLUS
ROBOTICS**
[DRONESPLUSROBOTICS.COM](https://dronesplusrobotics.com)



SCREENING METHANE FASTER ACROSS PIPELINES & FACILITIES

AIRINS
MetScan
AIRINS.ai

MetScan pairs UAV-based hardware with AIRINS.ai software to deliver rapid, repeatable methane screening across upstream, midstream and downstream assets. Visualize geo-referenced measurements, identify likely hotspots, and generate follow-up-ready outputs for LDAR workflows.

BUILT FOR REAL-WORLD METHANE SCREENING

- Hardware + Software
- 2D / 3D methane mapping
- AI hotspot localization
- Follow-up-ready reporting

HOW THE SYSTEM WORKS

- 1 SCAN**
Belt Scan or Sector Scan
 - 2 SYNC**
Upload mission data and video
 - 3 ANALYZE**
Interactive 2D / 3D methane maps
 - 4 REPORT**
AI-assisted outputs for follow-up
- Supports repeatable LDAR-style screening workflows.

APPLICATION MODES & OUTPUTS

**PIPELINES
BELT SCAN**

Routine methane screening across long linear assets with repeatable geo-referenced coverage.

**FACILITIES
SECTOR / BELT SCAN**

Screen sites, pads, stations and plants from the fenceline or over selected areas.

**AIRINS.ai
VISUALIZE & REPORT**

Review 2D / 3D methane maps, rank suspected hotspots, and export structured results.

CAPABILITY	METSCAN HARDWARE	AIRINS.ai VISUALIZATION	FOLLOW-UP OUTPUTS
Core Function	Diffuse-reflection OP-TDLAS methane measurement	2D / 3D methane overlays and mission review	Reports and GIS-ready exports
Key Features	Up to 50 Hz sampling, Class 3R laser, dual-view imaging	Timeline review, hotspot localization, historical comparison	PDF / DOCX reports, CSV, JSON, SHP, map links
Integration	DJI Matrice 350 / 400 and platform-agnostic options	Cloud-based mission organization	Shareable outputs for field and office teams
Best Use	Field methane screening	Analysis and interpretation	Documentation and follow-up

WHY IT MATTERS

- Rapid screening of difficult-to-access assets
- Repeatable coverage for routine LDAR programs
- Geo-referenced methane overlays with visual context
- Faster triage of suspected leak locations
- Useful in OGMP 2.0 and EU Methane Regulation workflow contexts

Faster screening helps teams prioritize follow-up with greater clarity and confidence.

BUILT FOR THE REAL WORLD



METSCAN + AIRINS.ai ADVANTAGE

- ✓ UAV-based methane 3D screening
- ✓ AI-assisted hotspot identification
- ✓ Interactive 2D / 3D mapping
- ✓ Dual-view synchronized video context
- ✓ Structured reports and GIS-ready exports
- ✓ Designed for repeatable field deployment



WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

DRONES **Plus** **ROBOTICS**
DRONESPLUSROBOTICS.COM



PRECISION 3D MAPPING FOR REAL-WORLD SURVEYING

The SHARE SLAM S20 is a mobile 3D LiDAR scanner built for fast, accurate reality capture. Dual 1-inch image sensors, a professional mechanical shutter, RTK positioning, and SLAM fusion help teams collect clearer imagery, cleaner point clouds, and more dependable field data.



SHARE3DCAM
S20

BUILT FOR MOBILE 3D REALITY CAPTURE

- DUAL 1-INCH SENSORS
- MECHANICAL SHUTTER
- 200,000 PTS/SEC
- UP TO 150 MIN

WHAT MAKES THE S20 DIFFERENT?



IMAGE QUALITY

- 2 x 16 MP cameras
- 1-inch sensors
- 2.4 μ m pixels
- clearer color point clouds



DATA CONFIDENCE

- global exposure
- laser + visual SLAM fusion
- built-in RTK
- real-time or post processing

KEY S20 CAPABILITIES

IMAGE QUALITY DUAL 1-INCH SENSORS



16 MP x2 cameras for clearer photos and more accurate colorized point clouds

POINT CLOUD FAST MOBILE CAPTURE



200,000 points per second, 10 Hz point cloud frequency, real-time or post processing

OPEN ECOSYSTEM FLEXIBLE WORKFLOWS



Open raw data, SDK support, BIM/CAD-friendly workflows, and external platform integration

KEY SPECIFICATIONS

Weight	1079 g
Battery Life	Up to 150 minutes
Range	0.1 to 40 m @ 10% reflectivity; up to 70 m @ 80% reflectivity
Accuracy	Better than 5 cm absolute; better than 1 cm relative
Storage & Connectivity	256 GB, WiFi 6, Bluetooth, Type-C, TF card
Operating Temperature	-20°C to +50°C

WHY IT MATTERS

The S20 helps teams improve field capture for:

- ✓ As-built surveys
- ✓ Renovation and real estate mapping
- ✓ Topographic mapping
- ✓ Tunnel and utility surveys
- ✓ Bridge and power infrastructure inspection
- ✓ Digital twin and 3D modeling workflows

Cleaner imagery and more dependable point clouds support faster decisions and lower rework.



BUILT FOR THE REAL WORLD



RENOVATION



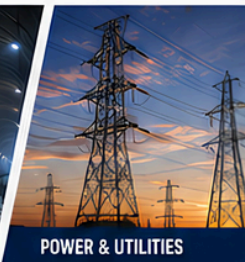
AS-BUILT SURVEY



TOPOGRAPHIC MAPPING



TUNNEL SURVEY



POWER & UTILITIES

STEP UP TO S100

SHARE SLAM S100 SERIES
For larger sites and complex environments

- Up to 640,000 pts/sec
- Up to 300 m range
- 16 or 32-channel LIDAR
- 1TB SSD + up to 3 hrs battery

Best for advanced surveying, infrastructure, tunnels, and large outdoor capture.



WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

DRONESPLUS⁺
ROBOTICS
DRONESPLUSROBOTICS.COM



FIND AND QUANTIFY METHANE LEAKS FASTER

Real-Time Methane Detection From the Air

Deploy drone-based methane surveys to identify, locate and quantify emissions across large areas in a fraction of the time required by traditional ground-based methods.



DETECT

Locate methane emissions



QUANTIFY

Measure methane concentrations



REPORT

Generate actionable inspection reports

FROM MISSION PLAN TO ACTIONABLE REPORT



PLAN



FLY



DETECT



QUANTIFY



REPORT



- ✓ Autonomous flight planning
- ✓ Real-time methane monitoring
- ✓ Quantifiable results
- ✓ Exportable reports
- ✓ Repeatable inspection routes

WHY DRONE-BASED METHANE DETECTION?

TRADITIONAL SURVEYS



Walk Facility



Drive Route



Record Observations



Compile & Report



VS

PURWAY + DRONE



Fly Mission



Detect Methane



Quantify Emissions



Export Report



IDEAL APPLICATIONS



OIL & GAS PRODUCTION

Well pads, tank batteries,
gathering systems



Right-of-way surveys,
leak investigations,
integrity programs



NATURAL GAS UTILITIES

Distribution networks,
regulator stations,
leak surveys



Methane monitoring,
emission tracking,
compliance reporting



ENVIRONMENTAL MONITORING

Emission assessments,
research, environmental
compliance

PURPOSE-BUILT FOR METHANE DETECTION



- ✓ Long-range methane detection
Detect emissions from a distance
- ✓ Integrated RGB camera
48MP for clear visual context
- ✓ 1.2 km ranging capability
Accurate distance measurement
- ✓ Lightweight, drone-integrated
Optimized for enterprise UAVs
- ✓ Real-time data collection
Immediate insights in the field

WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

DRONESPlus+
ROBOTICS
DRONESPLUSROBOTICS.COM



KEEPING ROBOTS WORKING IN HARSH INDUSTRIAL ENVIRONMENTS

Ingress Protection (IP) ratings define how well a robot is protected from dust, dirt, and water. Higher ratings mean greater reliability, less downtime, and lower total cost of ownership.

UNITREE

ROBOTICS

A2

INDUSTRIAL QUADRUPED ROBOT

THE WORLD'S LARGEST MANUFACTURER OF QUADRUPED & HUMANOID ROBOTS

70% MARKET SHARE IN ROBOT DOGS



WHAT DOES AN IP RATING MEAN?

FIRST NUMBER
Protection Against Solids

- 5 Dust Protected
- 6 Dust Tight

SECOND NUMBER
Protection Against Water

- 4 Splashing Water
- 6 Powerful Water Jets
- 7 Temporary Immersion

WHY IT MATTERS

Robots operating in harsh environments face:

- DUST
- MUD
- RAIN
- CHEMICALS
- WASHDOWN PROCEDURES
- FOOD PROCESSING AREAS
- OIL & GAS FACILITIES

Higher IP ratings deliver greater reliability, reduced downtime, and lower total cost of ownership.

COMPARISON OF INDUSTRIAL ROBOT PROTECTION LEVELS

IP54

DUST PROTECTED
WATER SPLASHES



Typical IP54 inspection robot

Best for indoor / controlled environments

IP56

DUST PROTECTED
HIGH PRESSURE WATER JETS



Unitree A2 Exterior

Built for outdoor and industrial environments

IP67

DUST TIGHT
TEMPORARY IMMERSION



Unitree A2 Critical Internal Components

Built for washdown and extreme conditions

WHY THE UNITREE A2 STANDS OUT

EXTENDED ENDURANCE



- Up to 5 hours / 20 km continuous operation*
- Up to 3 hours / 12.5 km with payload*
- Dual battery architecture
- Hot-swappable batteries for extended missions

*Data varies with terrain, payload and conditions.

INDUSTRIAL PAYLOAD CAPACITY



- Up to 100 kg standing load
- ~25 kg continuous walking payload
- Supports a wide range of sensors and tools including cameras, LiDAR, thermal cameras, gas detectors, acoustic sensors and more

BUILT FOR REAL TERRAIN



- Climbs slopes up to 45°
- Handles stairs and obstacles
- Traverses uneven ground, gravel, mud and harsh environments

ADVANCED PERCEPTION



- Front and rear LiDAR
- HD camera system
- 360° environmental awareness
- Autonomous navigation and obstacle avoidance

OPEN DEVELOPMENT PLATFORM



- ROS / ROS2 support
- Ethernet, CAN, RS485, USB interfaces
- OTA software updates
- Designed for rapid application development

IDEAL FOR DEMANDING INDUSTRIES



SECURITY & PERIMETER PATROLS
AUTONOMOUS PATROLS OF ENERGY, UTILITY AND INDUSTRIAL SITES



INDUSTRIAL INSPECTIONS
VISUAL, THERMAL, ACOUSTIC AND GAS LEAK INSPECTIONS



OIL & GAS
REMOTE INSPECTION OF HAZARDOUS AND HARD-TO-REACH AREAS



FOOD & BEVERAGE
WASHDOWN-COMPATIBLE OPERATIONS IN FOOD PROCESSING FACILITIES



CONSTRUCTION
PROGRESS MONITORING, SITE DOCUMENTATION AND ASSET TRACKING



EMERGENCY RESPONSE
SITUATIONAL AWARENESS IN HAZARDOUS AND DISASTER RESPONSE SCENARIOS



WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

DRONESPLUS+ ROBOTICS
DRONESPLUSROBOTICS.COM



SEE WHAT THE EYE CANNOT.

Aerial Optical Gas Imaging (OGI)

DPR GasView™ 640

Powered by Sierra Olympia Technologies

Purpose-built for aerial inspections.

Designed to find what matters—methane.



NOT EVERY PLUME IS A METHANE LEAK.

Ventus MWIR detects many gases.

GasView 640 (Viento LWIR) is tuned for methane (and to a lesser extent propane).

TWO TECHS. TWO STRENGTHS. ONE CLEAR CHOICE FOR YOUR MISSION.

FEATURE	GASVIEW 640 (VIENTO LWIR)	VENTUS MWIR
Detector Type	Uncooled LWIR	Cooled MWIR
Primary Target	Methane (CH ₄) (+ Propane)	Multiple Gases (Including CH ₄)
Selectivity	High for Methane	Less Selective
Image Appearance	Lower Contrast (Methane-Focused Imaging)	High Contrast, More Detail
Sensitivity	Optimized for Methane Detection	Very High (Detects More Gases)
Size / Weight	Lightweight (UAV Optimized)	Larger System
Startup Time	Immediate (No Cooldown)	Cooldown Required
Cost	Less Than Half the Cost	Higher
Best Use	Methane-Focused Surveys	Multi-Gas / Specialized Use

VIENTO LWIR (ENHANCED BY NETXTEN)



NO PLUME DETECTED
(Not Methane)

VENTUS MWIR



PLUME DETECTED
(Not Methane)

WHY GASVIEW 640 (VIENTO LWIR)?



LESS THAN HALF THE COST

The GasView 640 (Viento) delivers exceptional value—less than half the cost of cooled MWIR systems.



SELECTIVE BY DESIGN

Viento LWIR is tuned to detect methane (and to a lesser extent propane), reducing false positives from other gases.



LIGHTWEIGHT FOR UAV OPERATIONS

Optimized for aerial deployment with lower payload weight and more flexible platform integration.



READY TO FLY

No detector cooldown. Immediate startup means more productive flight time and faster deployment.

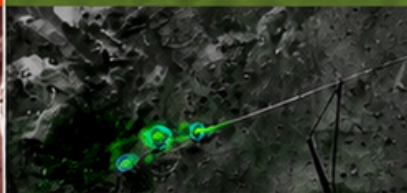
SAME METHANE LEAK. BOTH CAMERAS.

VIENTO LWIR + NETXTEN



Clear detection of methane.
Good enough to take action.

VENTUS MWIR



Higher sensitivity and resolution.
More detail, higher cost.



BUILT FOR THE MISSION

- ✓ Detect methane from the air
- ✓ Cover more ground, faster
- ✓ Reduce risk and personnel exposure
- ✓ Integrates with the DJI Matrice Platforms
- ✓ Optimized for real-world operations

IDEAL FOR AERIAL INSPECTIONS



Oil & Gas Production



Midstream Facilities



Tank Farms



Compressor Stations



Flares



Environmental Monitoring



SAFE

Inspect from a safe distance



EFFICIENT

Survey large areas quickly



ACCESSIBLE

Reach difficult-to-access assets



SAFER

Reduce personnel exposure



ACTIONABLE

Find what matters. Act with confidence.

WE HELP ORGANIZATIONS DEPLOY DRONE & ROBOTIC SOLUTIONS
EVALUATE • CONFIGURE • DEPLOY • SUPPORT
LEARN MORE SCAN THE QR CODE OR VISIT
DRONESPLUSROBOTICS.COM/EDR-INFO

**DRONES+
ROBOTICS**
DRONESPLUSROBOTICS.COM



SEE MORE LEAKS MISS FEWER EMISSIONS

Computer Vision Assisted Leak Detection for Aerial Optical Gas Imaging (OGI)

NETxTEN reveals leaks that are hard to see so you can inspect faster, with greater confidence.

NETxTEN
THE NEW LEAK DETECTION MODE



STANDARD OGI



NETxTEN ENHANCED



Enhanced detection of subtle leaks.
Fewer misses. Fewer false alarms.

WHY NETxTEN?

NETxTEN helps identify gas leaks when:

- ✓ The drone is in flight
- ✓ Objects are moving in the field of view
- ✓ Metal surfaces create thermal noise
- ✓ Camera dwell times are short
- ✓ The operator has limited OGI experience

NETxTEN mode is powered by a patented physics-based thermal image processing algorithm developed by Aquanta Vision.

HOW IT WORKS

NETxTEN runs on the camera. Detection happens **in real-time**.



1. CAPTURE
OGI video is captured in-flight.



2. NETxTEN ON-CAMERA
Physics-based AI processes every frame instantly.



3. REAL-TIME DETECTION
Leaks are highlighted live on the video feed.



4. OPERATOR DECISION
Immediate insights for faster, more confident decisions.

End-to-end in real-time on the camera

IDEAL FOR



Oil & Gas
Production



Tank Farms



Midstream
Facilities



Petrochemical
Facilities



Refineries



Environmental
Monitoring

INVESTORS



ENERGY
INVESTMENT
CORPORATION

INDUSTRY VALIDATED



ACCELERATORS



Shell
GameChanger



SEE MORE. MISS LESS. ACT FASTER.

AQUANTA VISION

www.aquantavision.com