H³Dynamics

Autonomous cloud-connected robotics services for industrial and government use

Urban architecture / buildings

Oil & Gas infrastructure

Agriculture

Mining

Hydropower dams

Renewable energy plants

Environmental monitoring

Port infrastructure

Autonomous condition assessments

Autonomous aerial security system

H³Zoom
Digital services platform

Fleets of robots networked in the field

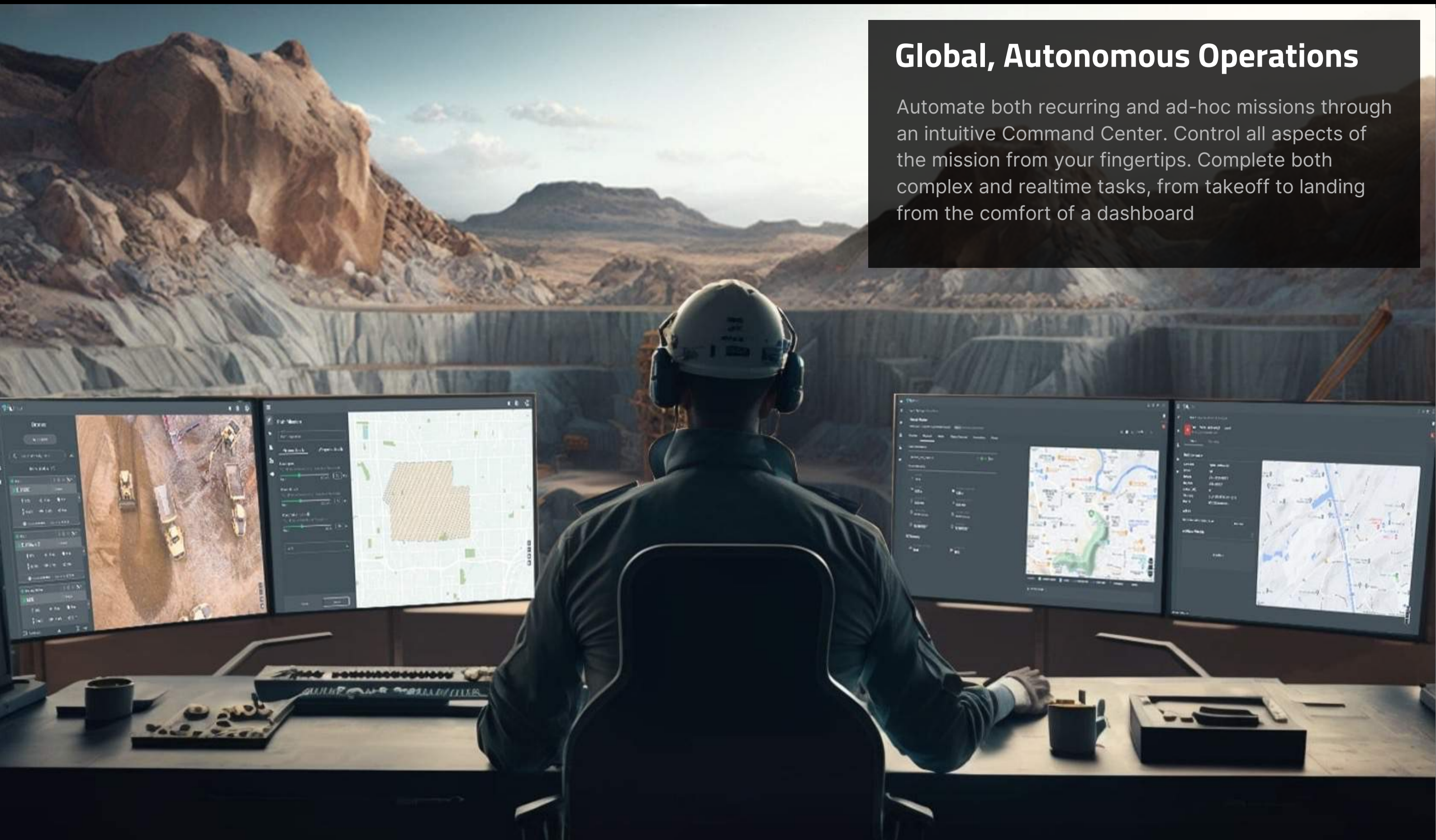## Fully Autonomous Remote Operations

Navigation, Docking, Stowing, Charging, Data Retrieval, Transmission and Processing: our drone box DBX G7 operates industrial multi-rotor drones like an expert pilot but totally autonomously to enable remote and hazardous operations.

Open Hardware & Software Platform

The DBX Command Center (C2) solution helps plan missions with a very user-friendly web-based interface. It can work in unison with other DBX systems, existing sensors or camera networks to support automated response solutions. It can be fully integrated to your or thrid party AI analytic software.

Global, Autonomous Operations

Automate both recurring and ad-hoc missions through an intuitive Command Center. Control all aspects of the mission from your fingertips. Complete both complex and realtime tasks, from takeoff to landing from the comfort of a dashboard

Highly Adaptable
Mission Control

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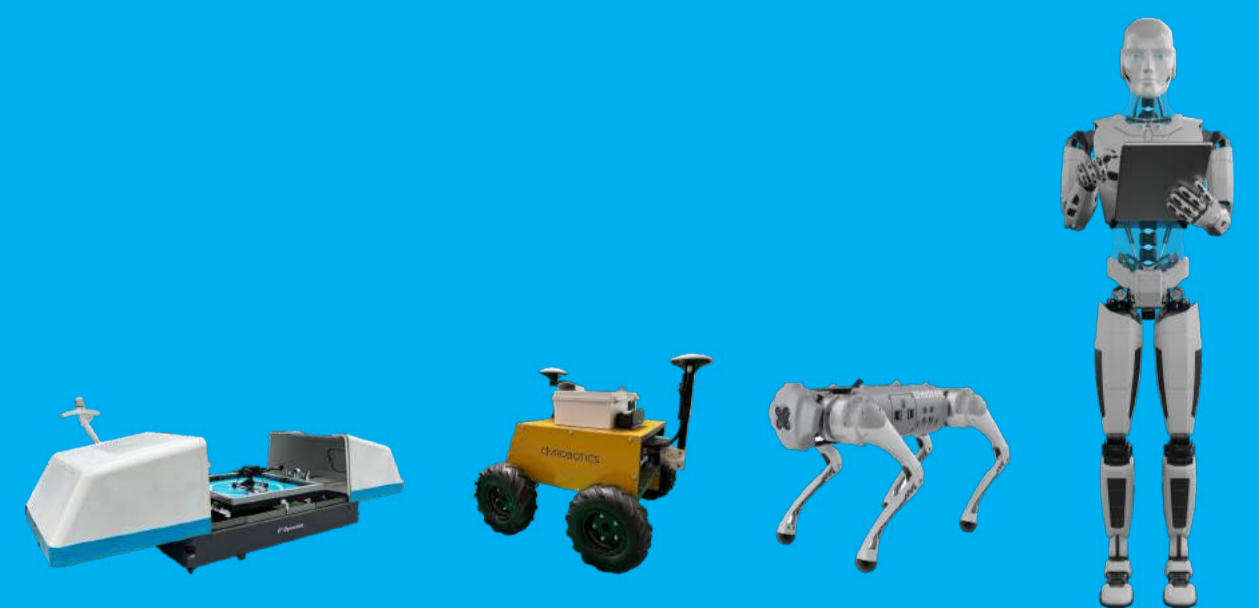
MISSION PLANNING
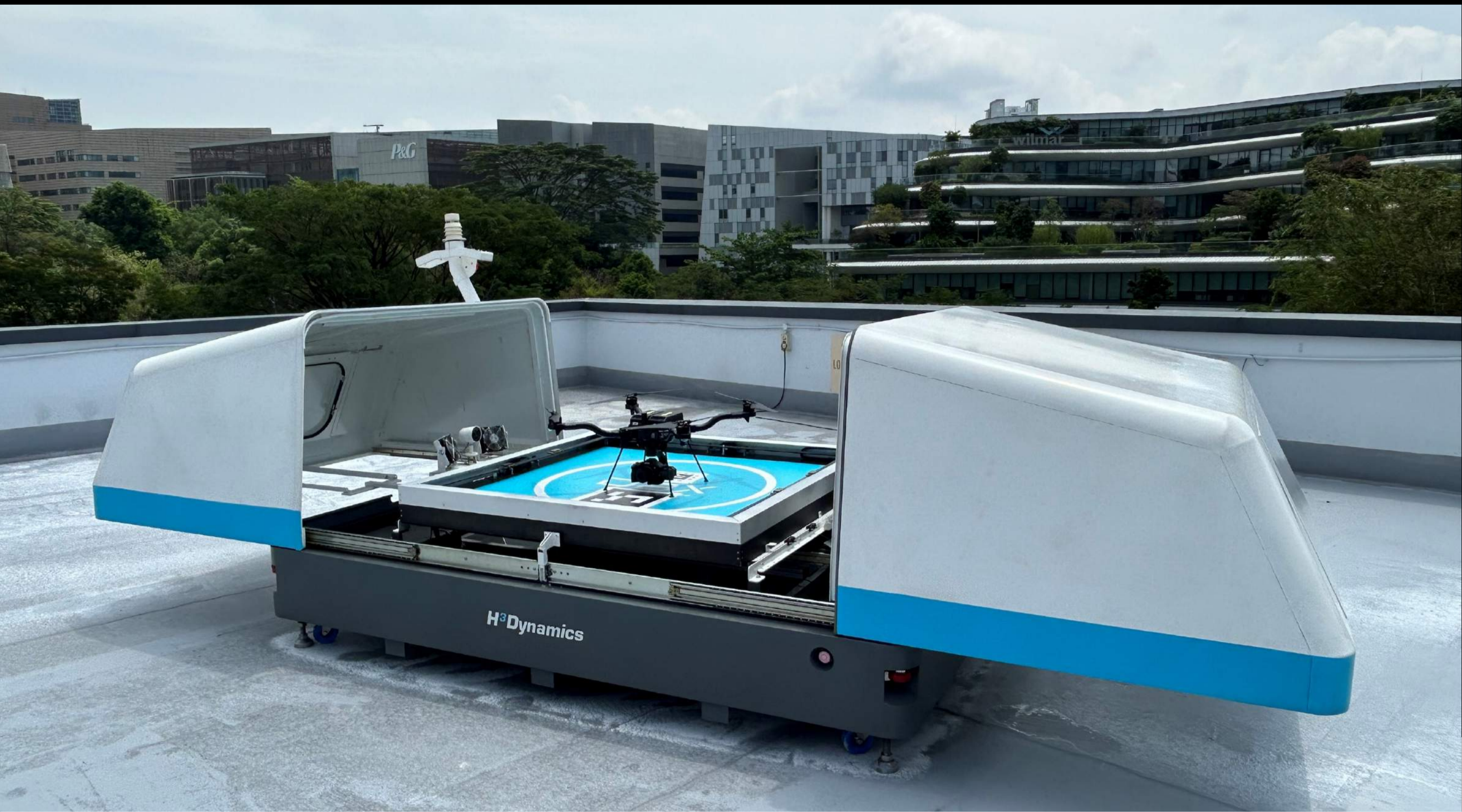
LIVE STREAMING

GEOFENCING

TELEMETRY DATA

Integrates with client security systems

Modular architecture with API/SDK allows seamless integration into customer systems like camera networks, smart fencing, and IoT hypervisors

Integrates any field-robot type

H3 Dynamics Omnibotics offers a unified platform for managing diverse connected field robots, simplifying fleet and mission management
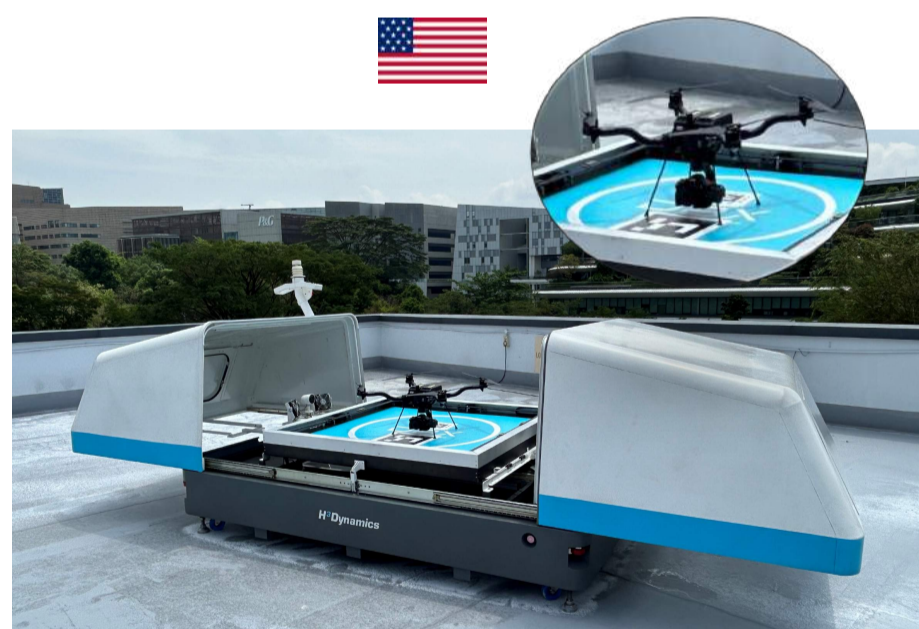
Drone & Payload Agnostic*

DBX architecture can host different drones and their differing sensor payloads opening to multiple use cases across industry verticals

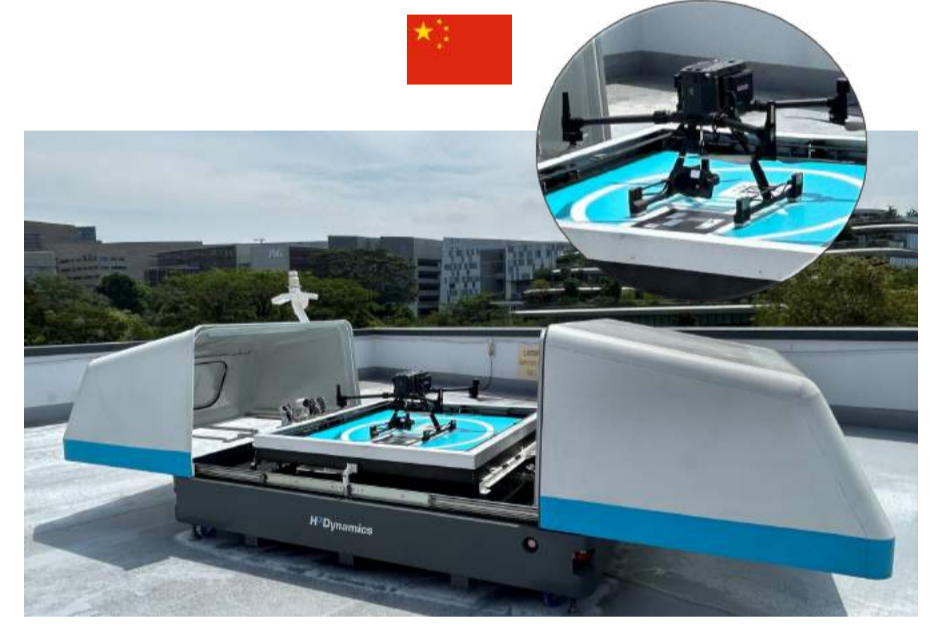**Ability to customize other drones and payloads on request*

HEXADRONE

FREEFLY

dji

TUNDRA 2 is the new modular, plug & play, multi-purpose drone. It's a versatile platform, open to numerous integrations, allowing seamless interfacing with any payload. From defense and civil security to precision agriculture, topography, photogrammetry, and more

FEEFLY's ASTRO drones are trusted in extreme conditions, offering unmatched engineering and quality in the industry. With over 85,000 flights in wind turbine inspections, Astro is compact, flexible, and built for purpose, capable carrying some of the world's most expensive sensors.
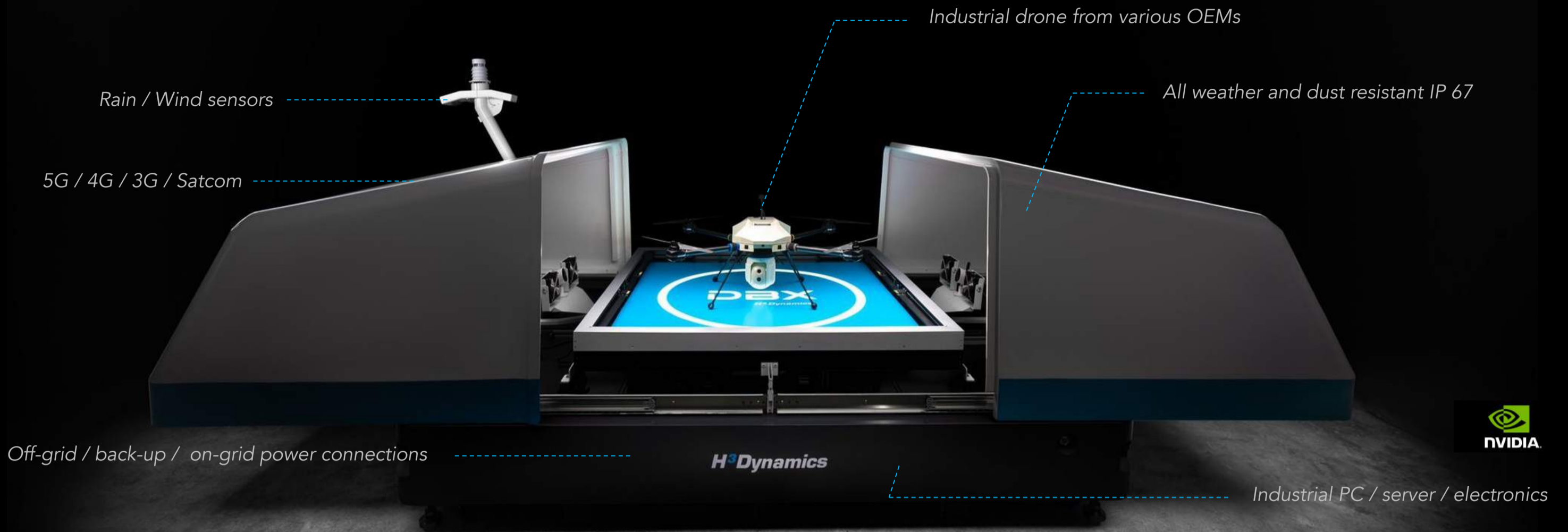
M300 and M350 are robust drones intended for professional use, specifically in the fields of inspection and security. They offer high performance and very good reliability with advanced features – such as 55 minutes of flight time, and a maximum payload capacity of 2.7 kg.

Hot-Swap Payload options

Hot-Swap Payload options

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Any condition, anywhere, anytime

High quality design, versatile drones, and long endurance: the DBX excels in all conditions.
Whether for security, defense, industrial inspection, or scientific missions, the DBX is the ideal choice
for covering large areas and tackling the most complex challenges worldwide.

Rain / Wind sensors

Industrial drone from various OEMs

All weather and dust resistant IP 67

5G / 4G / 3G / Satcom

Off-grid / back-up / on-grid power connections

Industrial PC / server / electronics

NVIDIA

BVLOS approvals granted

H3 Dynamics, along with its partners, has obtained approval to conduct Beyond
Visual Line of Sight (BVLOS) flights under the New European Aviation Safety
Association (EASA) regulations.

Approvals have been granted by the civil aviation authorities of the Netherlands,
Austria, and France. In the APAC region, countries such as Australia and Taiwan
have granted similar approvals.

STARLINK

STARLINK ready and compatible

Technical Specifications

Unmatched solution for the most demanding missions.

Deployment Time	40 Seconds
Station Dimensions (Lxhxd) & Weight	2.78m X 1.42m X 1.96m │ 450kg
Drone-to-station Integration Kit	Autonomous Precision Landing, Centering & Charging
Station-to-drone Communications	Remote Control (Radio Frequency) + Gsm/lan
Weather Station Comms	Rj45 Ethernet Local Area Network
Vms-to-station Communications	Rtmp Streaming Via 4g/5g
Live Video Streaming	1080p/720p/480p Resolution
Built-in Weather Sensors	Rainfall, Wind Speed And Direction, Luminescence Sensor
Electrical Grid	110 To 230 Vac
Automatic Charging Current	10a
Security Layers	Aes 256 Payload To Gcs, Firewall, Ssl
Environmental Conditions	Ip67

Enhanced Port Monitoring System

Provides a comprehensive response to port security challenges. It enhances maritime and land surveillance, ensuring rapid verification in case of alarms. It ensures constant surveillance, combats illicit activities like drug trafficking, and prevents fires and pollution. It controls maritime entrances, prevents fires, and detects pollution, contributing to environmental preservation.

Government and Corporate Site Security

Enhances government and private site security. For end-customers, it's networked with other sensors, provides prevention before actions, and better detection capability than guards. For security service providers, it optimizes contracts, supplements patrols, and addresses guard shortages by easy operation without piloting skills.

Remote Industrial Inspections at Scale

Robotic platform for industrial inspections helps maintain infrastructure integrity and ensures compliance with regulations, thus improving operations and reducing risks. For Health, Safety, and Environment (HSE) it secures area operations, report non-compliance with site. Routine inspections and archived results also facilitate compliance with regulatory constraints. Fully automated visual inspections eliminates repetitive tasks and bridges the gap between IoT and Robots.

Large Site Construction & Maintenance

DBX revolutionize construction processes, from start to finish. They enable continuous monitoring, recurring inspections, and scheduled patrols, enhancing productivity and streamlining operations. With remote on-demand visibility, they offer real-time insights. By combining LiDAR accuracy with other sensors, they ensure precise data collection for efficient construction management.

Port of Rotterdam GUADELOUPE PORT CARAÏBES WIEN ENERGIE SCDF The Life Saving Force

Technology partners

NVIDIA   THALES   Microsoft

GUADELOUPE PORT CARAÏBES

Enhancing Port Security at Port of Guadeloupe : 24/7 surveillance, rapid verification, and effective response to alarms, enhancing safety and preventing illicit activities. From maritime surveillance to combating trafficking and environmental protection.

Ripper Corp.

H3 Dynamics DBX, used in Australia for events, enhances security. Installed on trailers, it allows fast deployment and comprehensive surveillance. From crowd monitoring to safety protocols, autonomous drones provide real-time insights and rapid response, ensuring attendee safety.

Custom Development

H3 Dynamics also provides custom solutions for specific needs, like integrating our technology onto ships in various marine environments, vehicles, or cargo drones for delivery services, including medical supplies.