

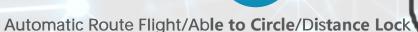
2024

LANT-380
INDOOR INSPECTION
DRONE

Product Advantages

3D Lidar Positioning

Operable without reliance on lighting, available for all-day use, independent of GNSS satellite signals, barometers, and compasses for assistance, ensuring more precise and reliable indoor positioning!



- Combines automatic charging with automated flight path missions, enabling unattended indoor operation.
- Capable of locking distance, autonomously circling for inspections, making it more practical for inspecting the curved surfaces of storage tanks.



Small Stature, Lantern Protective Cover

With an outer dimension of 380mm, it can freely navigate through narrower spaces, small stature, big utility!

3D Point Cloud Post-Processing

Features ultra-dense point cloud collection and real-time spatial 3D modeling, enabling rapid calculations of material volume and surface area.

High Reliability Design

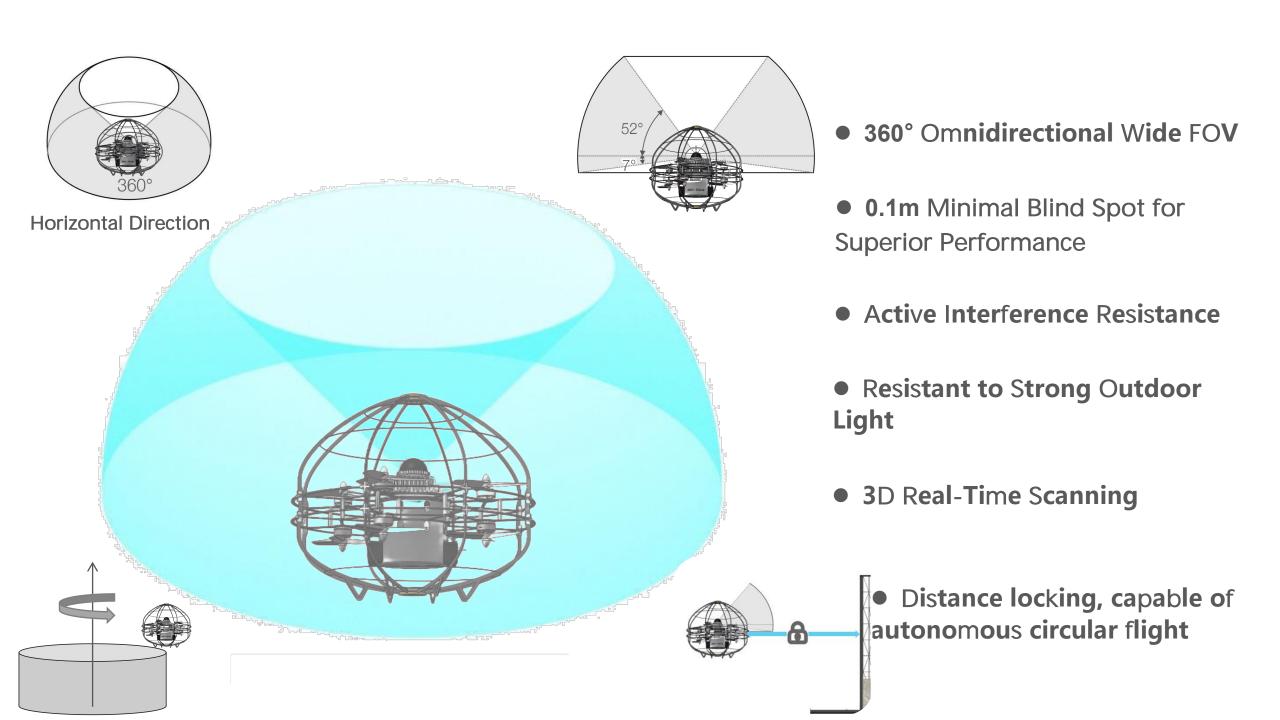
Safer indoor flight: Incorporates multiple fusion algorithms, hardware, software redundancy design, and power failure protection (safe landing is possible even with missing propellers).

Fearless in the Dark, 16000 Lumens Brightness

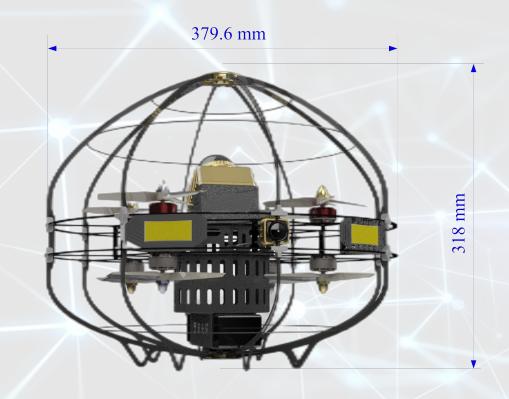
Featuring advanced intelligent lighting, ensuring closeup inspections are clear and visible, with cracks and rust clearly visible right before your eyes.

Low Latency Real-Time Image Transmission

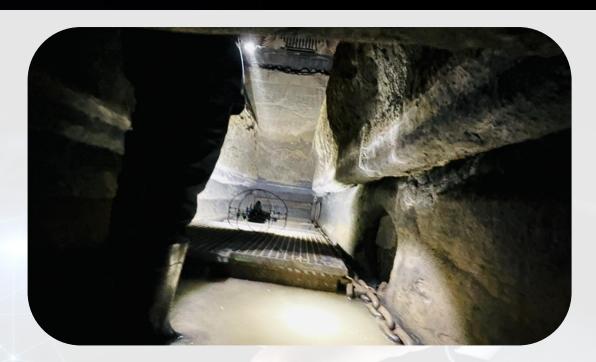
30ms low latency 1080p HD image transmission; FPV immersive flight goggles available.



Smaller Outer Dimensions

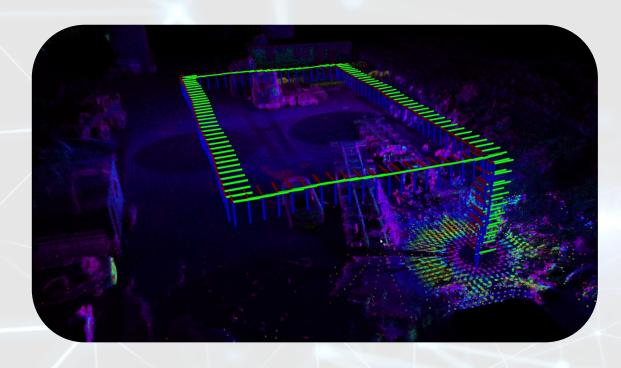


Compact 3D radar-equipped drone, engineered with precision navigation for full protection, designed to operate in tight spaces such as tunnels, boilers, and underground utility corridors.





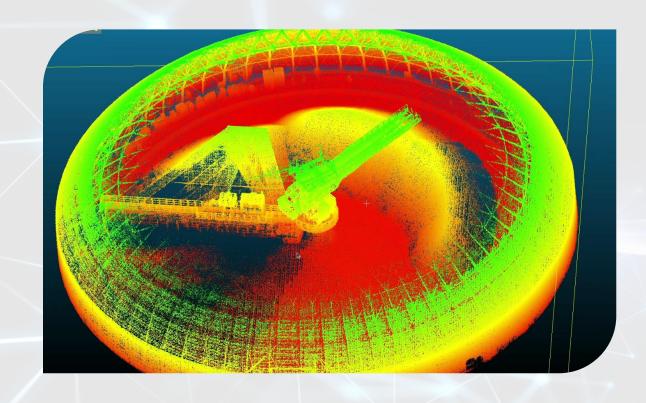
Automatic Flight Path



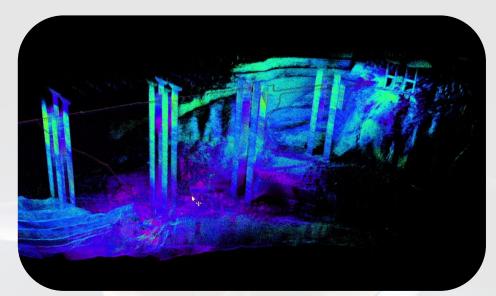
Paired with an Automatic Charging Nest, Enables autonomous flight in indoor, enclosed spaces, facilitating unattended operations. Enables the drone to follow pre-programmed routes automatically, making operations more efficient and reducing the workload for pilots, offering more comprehensive coverage for flight photography.



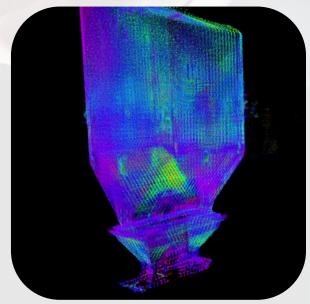
Powerful 3D Point Cloud Post-Processing Capability



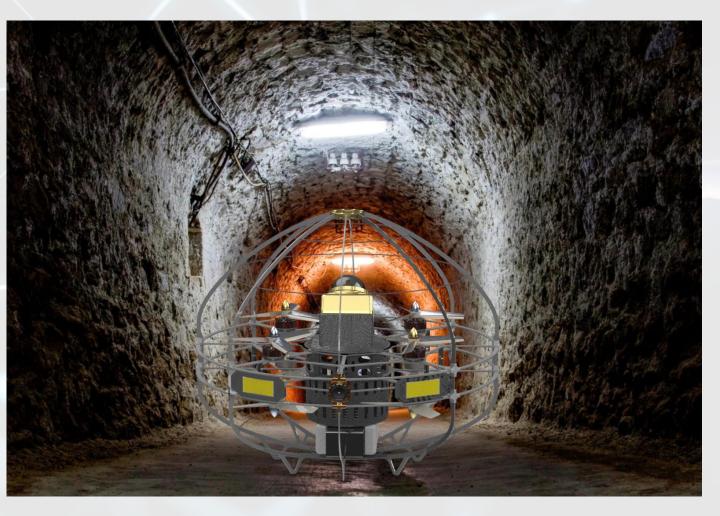
High-precision point cloud models enable accurate measurements of volume, surface area, and more.







Technical Specifications



Drone Specifications

Configuration Quadcopter Dimensions Outer contour ≤380mm Weight 1700g (including battery)

Flight Modes Lidar-SLAM Mode, ATTI-Attitude Mode

Flight Duration 14+ Minutes

Max Ascent/Descent Speed 2m/s (SLAM mode)

5m/s (Attitude mode)

Max Takeoff Weight 2000g

Noise Level

Propellers

Onboard Computer

Operating Temperature

Autonomous Flight Path

Max Wind Resistance 3m/s (SLAM mode)

5m/s (Attitude mode)

Materials Carbon Fiber Composite

High-quality Thermoplastic

Motor Type **Brushless Motor**

85dB

Linux Kernel System

0°C to 50°C

3-blade propeller*8 5 inches

Support

Specifications

◆ Camera/Videolink Parameters

(Dual Sensor Camera Optional)

Sensor 1/1.7 inches

Resolution 48 Megapixels

Video 1080P H.265 High-definition

Field of View 155° Wide-angle

Videolink Latency 30ms

Transmission Distance 10km (open area)

♦ Battery

Battery Replacement Time Within 10 second

Battery Type 4S lithium battery

Charging Cycles <30 Mins

Battery Capacity 8200 mAh

Weight 421 g

◆ Lidar

Wavelength

905nm

Human Eye Safety

class 1

Min Object Distance

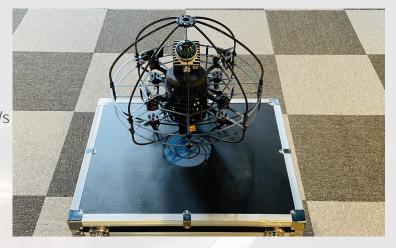
0.1m

Point Cloud Density

200,000 points/s

Detection Range

40m





Application

