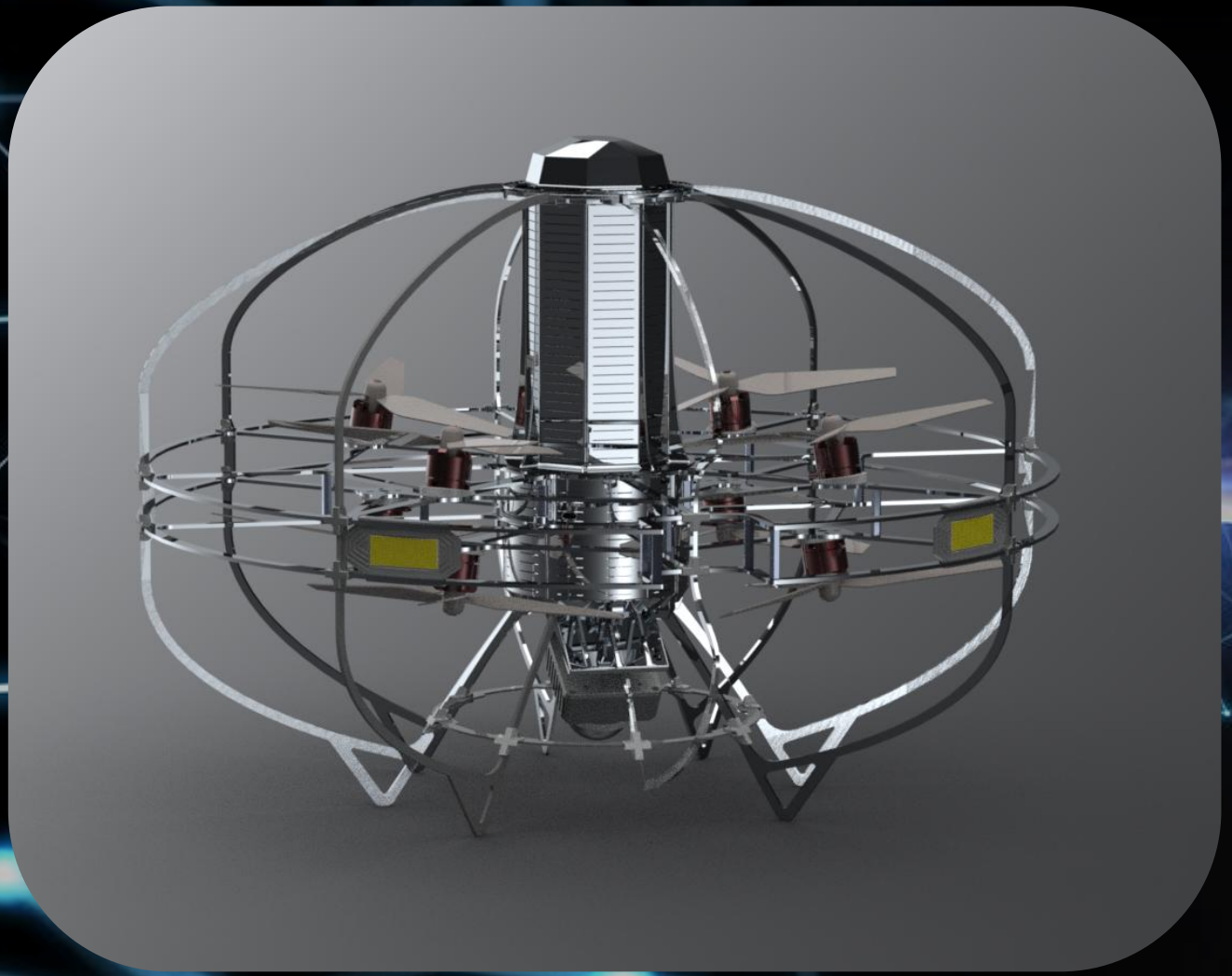


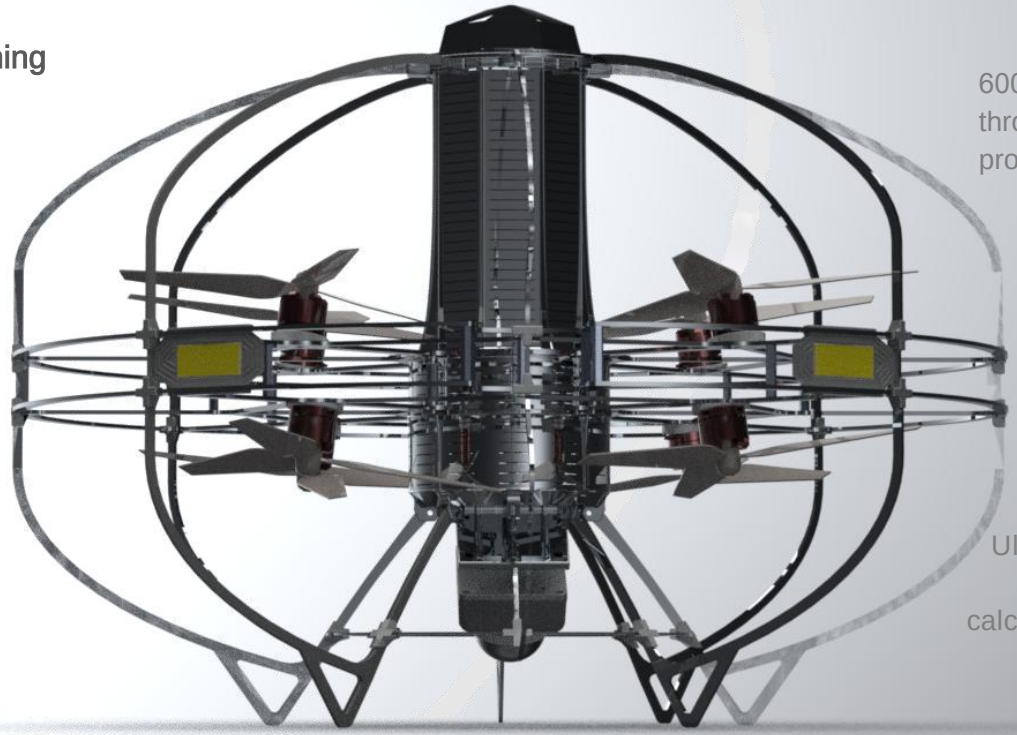
2024

LANT-600

INDOOR INSPECTION DRONE

V1.0

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!

Lantern-shaped Protective Cover

600mm external dimension, capable of freely navigating through 1m constrained spaces, making the lantern protection safer

Automatic Flight Path/Able to Circle/Distance Lock

- 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.

3D Point cloud Post-processing

Ultra-dense point cloud collection and real-time spatial 3D modeling enable rapid calculation of material volume and surface area

.

High Reliability Design

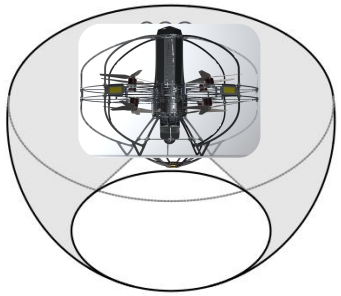
Safer indoor flight: Incorporates multiple fusion algorithms, hardware, software redundancy design, and power failure protection (safe landing is possible even with missing propellers)

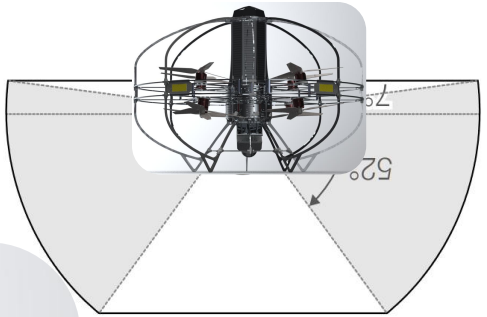
Fearless in the Dark, 16000 Lumens Brightness

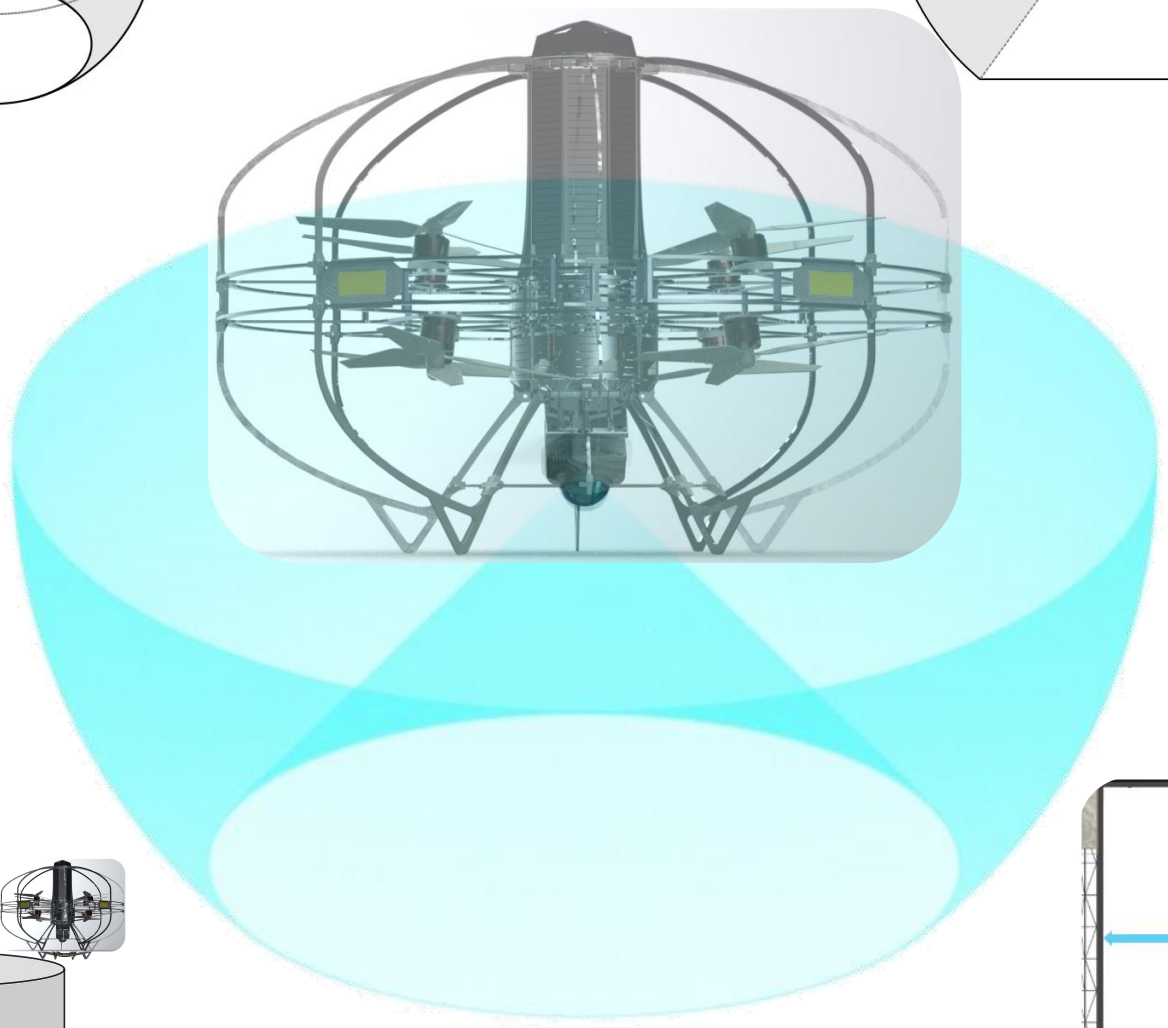
Brand new intelligent lighting ensures clear visibility upon close inspection.

Low-latency real-time image transmission

Paired with image transmission, real-time low-latency back-transmission of high-definition images.







360° Omnidirectional Wide FOV

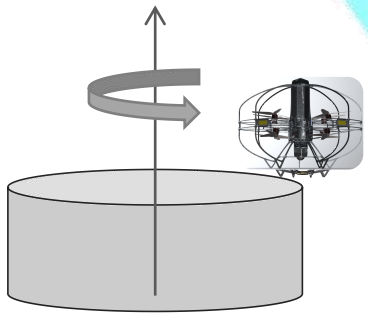
0.1m Minimal Blind Spot for Superior Performance

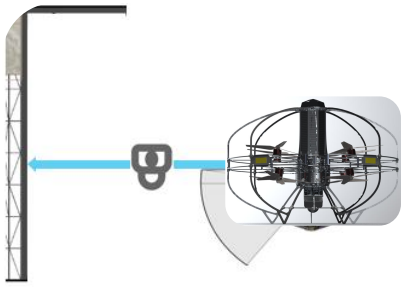
Active Interference Resistance

3D Real-Time Scanning

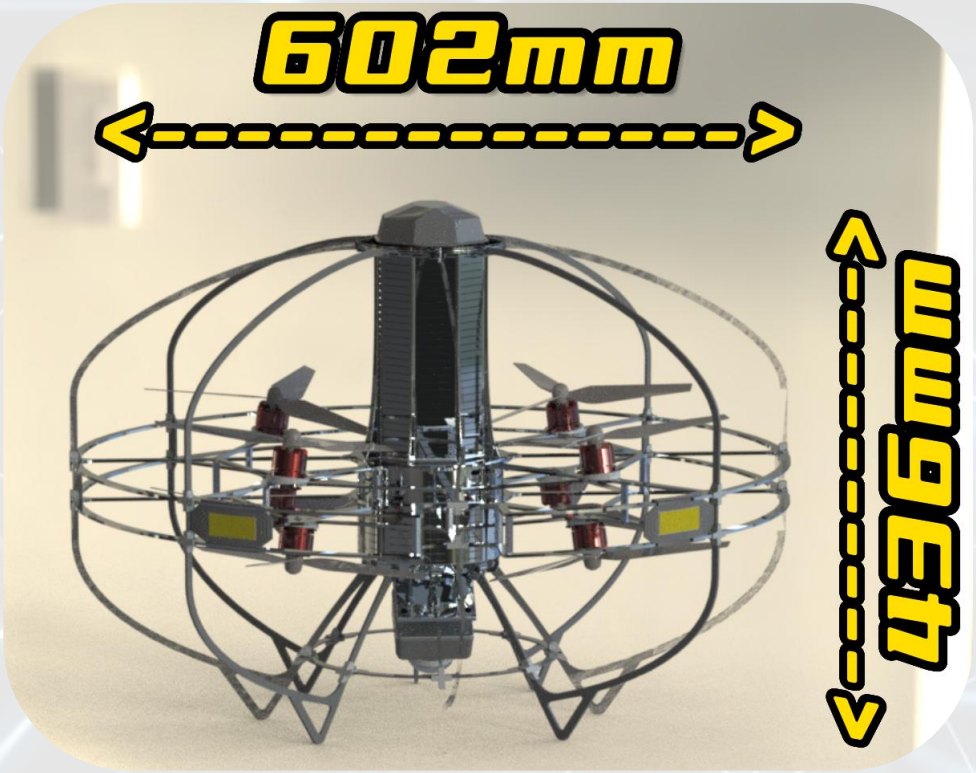
Distance Locking For Autonomous

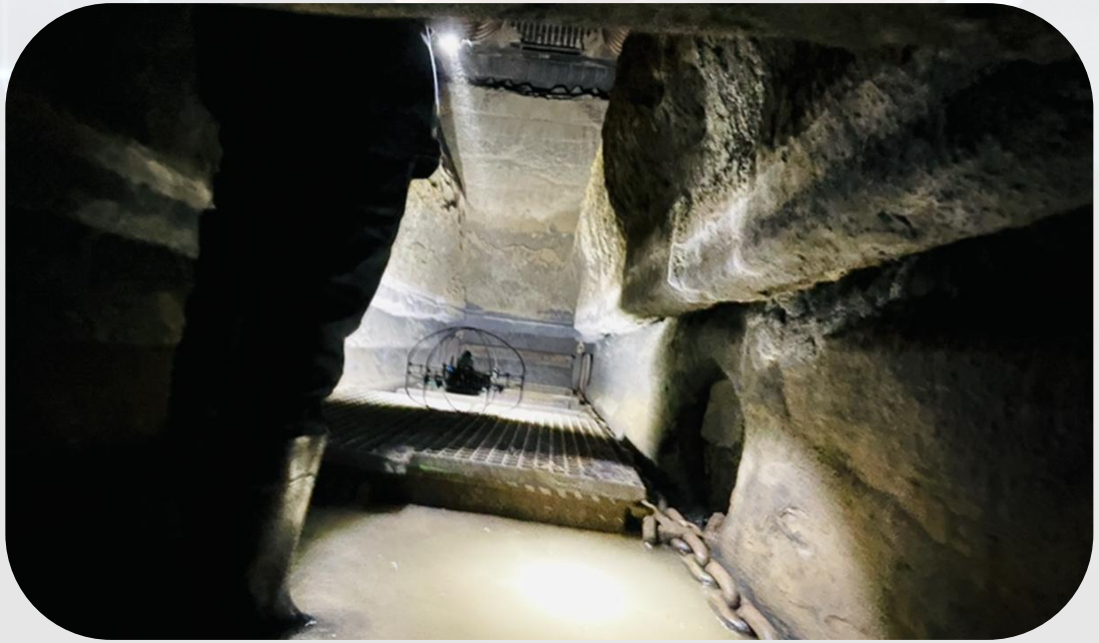
Circular Flight





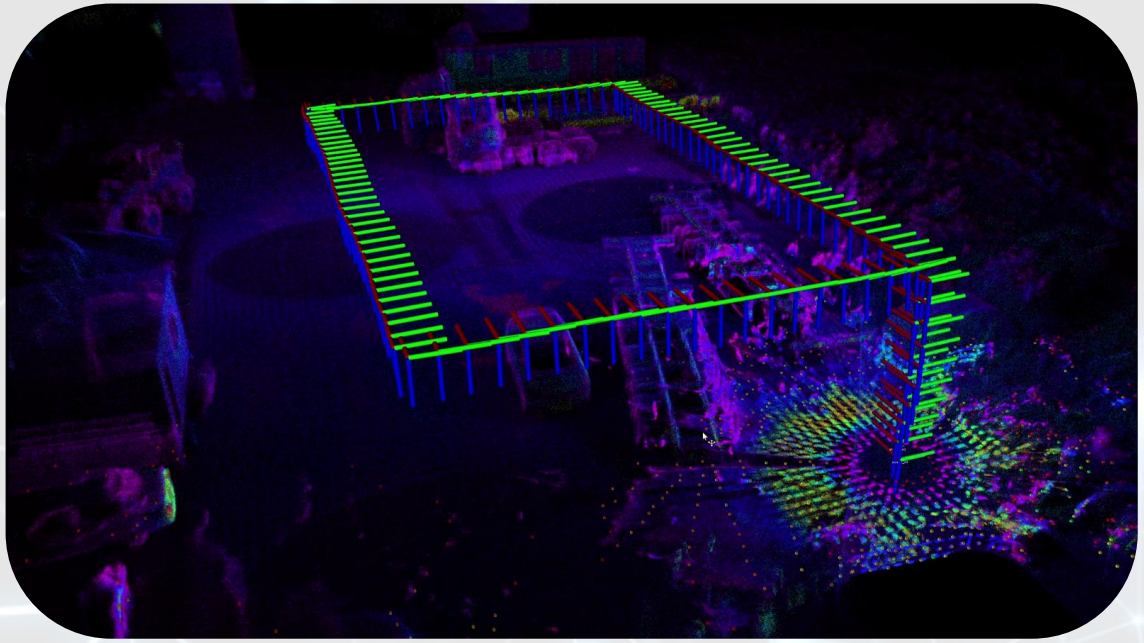
Smaller Outer Dimensions





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.

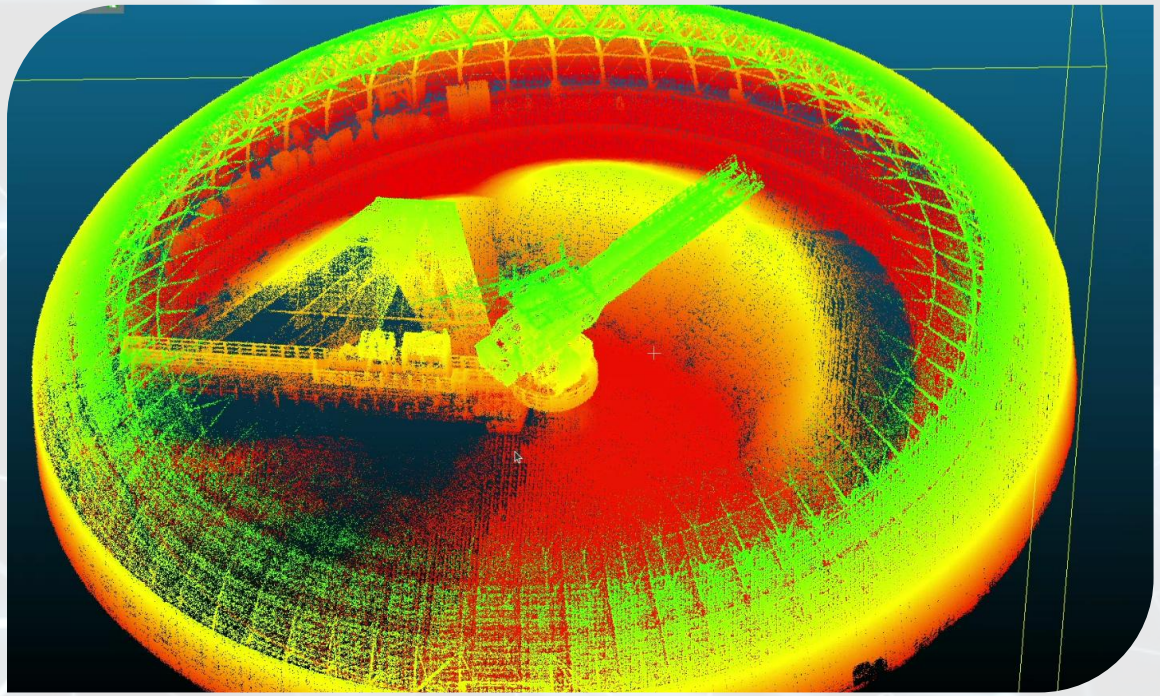
Automatic Flight Path

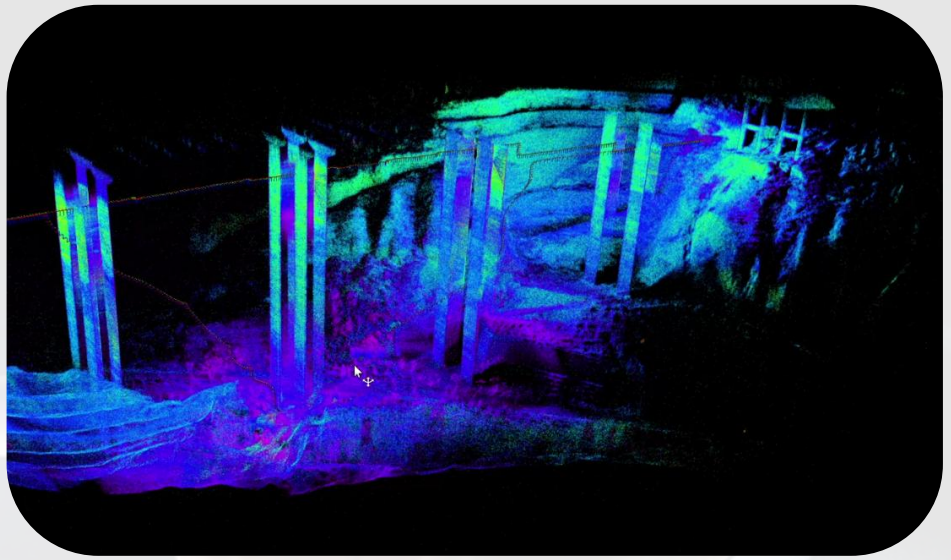


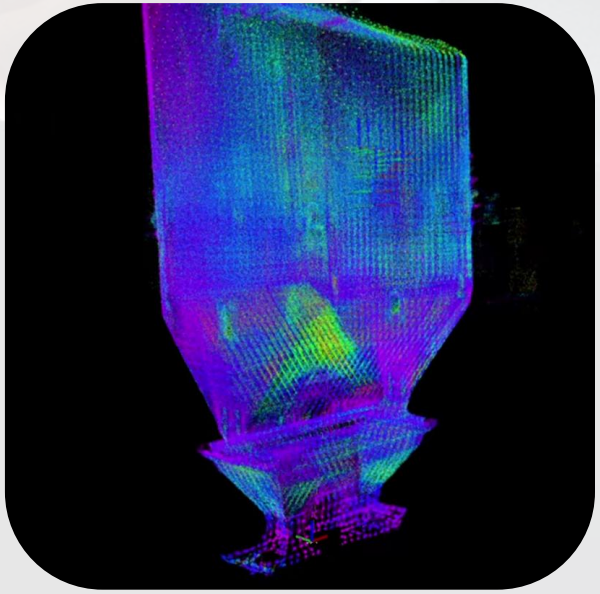
Enables the drone to follow pre-programmed routes automatically, making operations more efficient and reducing the workload for pilots, offering more comprehensive coverage for flight photography

Paired with an Automatic Charging Nest, Enables autonomous flight in indoor, enclosed spaces, facilitating unattended operations.

Powerful 3D Point Cloud Post-Processing Capability

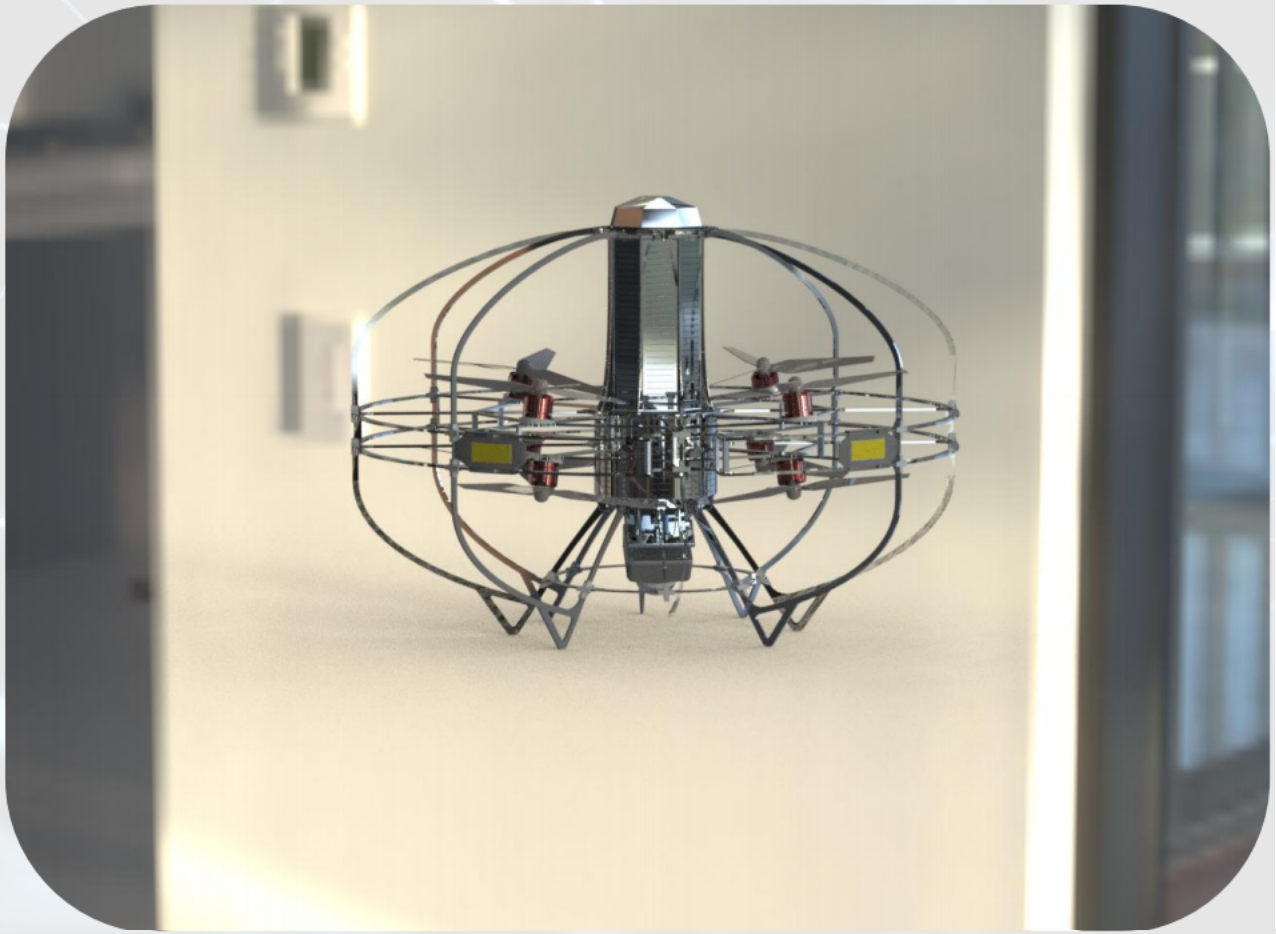






High-precision point cloud models enable accurate measurements of volume, surface area, and more.

Technical Specifications



Specifications

Configuration	Quadcopter
Dimensions	Outer contour ≤600mm
Weight	3500g (including battery)
Flight Modes	Lidar-SLAM Mode，ATTI-Attitude Mode
Flight Duration	16+ Minutes
Max Ascent/Descent Speed	2m/s (SLAM mode) 5m/s (Attitude mode)
Max Takeoff Weight	4500 g
Max Wind Resistance	3m/s (SLAM mode) 5m/s (Attitude mode)
Materials	Carbon Fiber Composite， High-quality Thermoplastic
Motor Type	Brushless Motor
Noise Level	85dB
Onboard Computer	Linux Kernel System
Operating Temperature	0℃ to 50℃
Propellers	3-blade propeller*8 5 inches
Autonomous Flight Path	Support

Technical Specifications

Camera/Image Transmission Specifications (Dual-light Camera Optional)

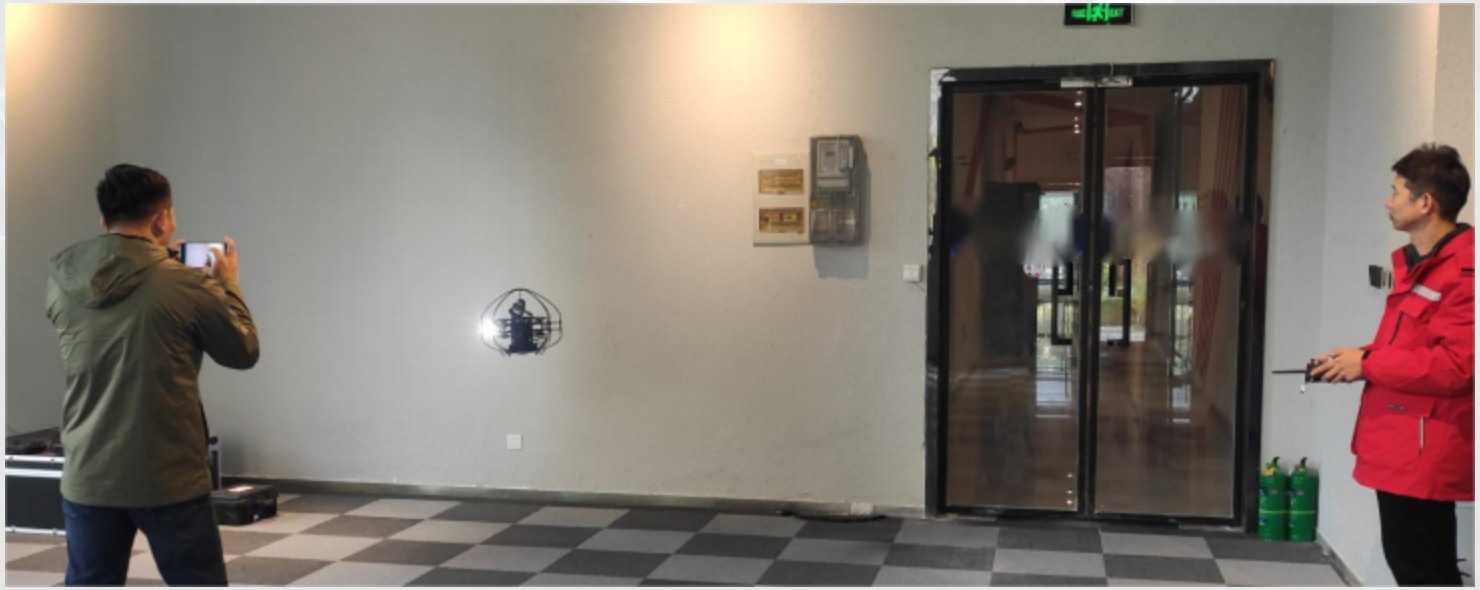
Camera boom tilts downward	+90 degrees
Camera boom tilts upward	-90 degrees
Control mode	Automatic pitch stabilization compensation
Sensor	1/1.7 inch
Resolution	48 megapixels
Video	1080P H.265 image transmission quality
Field of View	155° ultra wide angle
Videolink Latency	30 ms delay
Transmission Distance	10 km (line of sight)

◆ Lidar

Wavelength	905nm
Human eye safety level	class 1
distance measurement blind spots	0.1m
Point cloud output	200,000 per/se
Measuring range	40m

◆ Battery and Charging

Battery replacement time	Within 10 seconds, quick-swap
Battery type	4S Lithium Polymer battery
Charging time	Less than 40 minutes
Battery capacity	10,000 mAh"



Application