

HUMMER-L

Advanced inspection of cracks and defects in construction, buildings, bridges, and GPS-denied environments

Inspection Drone



Inspection of Building Wall



Inspection of under-
bridge structures



Inspection of bridge piers



HUMMER-L: The Ultimate Customizable Solution for Crack Inspection The HUMMER-L is a versatile, multipurpose drone designed for crack inspection in construction sites, buildings, and bridges. Equipped with advanced LiDAR and cameras, it captures precise structural shape data, while the forward-facing camera detects obstacles, ensuring stable and efficient flight operations. With SLAM technology, the HUMMER-L excels in GPS-denied environments, offering seamless inspection even in more challenging conditions.

Specification

HUMMER-L

Size	583.6 × 582.4 × 286.9mm
Weight excl. battery	3.31kg
Max. Flight Time	51 minutes
Max. Takeoff Weight	5.8kg
Max. Wind Speed	15m/s
IP rating	IP53
Operating Temp.	-10° C ~ 50° C

01



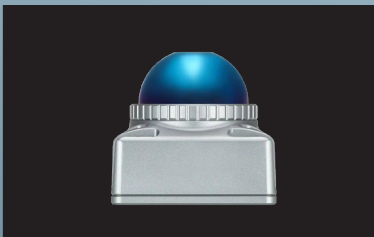
By utilizing **3D LiDAR-based SLAM technology**, the system accurately determines the drone's position, ensuring stable flight even in GPS-denied areas. The stereo cameras recognize the surrounding environment and calculate the drone's position and orientation, enabling reliable operation across various environments without dependence on GPS.

02



The **RHYTHM 3** forward camera is equipped with both infrared and 4K capabilities, delivering high-resolution images and radiometric data analysis. Featuring a **30x zoom** and advanced object detection, it provides precise and reliable performance across a wide range of inspection scenarios.

03



The **Mid-360** front-mounted LiDAR provides **360-degree 3D recognition**, optimized for navigation and obstacle avoidance in mobile robots. With support for SLAM (Simultaneous Localization and Mapping) and advanced obstacle avoidance capabilities, it delivers precise and efficient performance in dynamic environments.

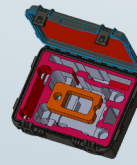
Camera (RHYTHM 3)

Total pixels	8.51MP
Video resolution	3840×2160@30fps
Optical zoom	X30 f = 4.4mm - 88.4 F2.0 - F3.8
Digital Zoom	X90

LIDAR (MID-360)

FOV	360° * 59°
Min. detection range	0.1m
PointCloud density	40-line

Package includes



Hard case

1EA



AQUILA 3F

1EA



RHYTHM 3
Camera

1EA



AVIATOR
Controller

1EA



Prop

4EA



Battery

2EA



Battery Charger

1EA

CONTACT

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