



LPP
HOLDING

Task #1

- Confidence: 95.4%
2025-02-23 23:28:42
- Confidence: 93.4%
2025-02-23 23:28:42
- Confidence: 90.3%
2025-02-23 23:28:42
- Confidence: 52.1%
2025-02-23 23:28:42
- Confidence: 49.1%
2025-02-23 23:28:42
- Confidence: 48.0%
2025-02-23 23:28:42
- Confidence: 40.1%
2025-02-23 23:28:42
- Confidence: 40.0%



AUTONOMOUS DRONE 3D MAPPING

MAPPING AND OBJECT DETECTION
UAV AUTONOMY

Our mapping solution creates detailed 3D models of environments using autonomous drones. They collect aerial images, which are processed within minutes by a companion app available on phone, tablet, or computer. The resulting 3D model can be explored and annotated with points of interest. An integrated AI model identifies and labels objects such as structures and vehicles, while also tracking changes across subsequent flights.

MAIN FEATURES

- + Generates a detailed 3D model of the surrounding terrain in minutes using an autonomous drone and a mobile device
- + AI automatically detects and labels objects such as buildings, cars, forests, and water in generated maps
- + Drone autonomously follows an optimal path for the mapping process even in GNSS-denied areas
- + On-device processing means the system works completely offline with low computing requirements
- + Monitors and visualizes environmental changes over time for dynamic situation tracking

USE CASE

The mapping system is particularly valuable for emergency services and military reconnaissance operations.

- + Timeline feature can track wildfire spread
- + AI annotations can quickly highlight dangerous objects
- + Estimate the number of civilians for potential evacuation
- + Track enemy unit movement over time
- + Works even in GPS-denied or spoofed areas

