FAiNDER©

Overview

The FAiNDER is an Ai Powered mine-detecting, surveying and mapping solution that takes place entirely from an industrial drone, ensuring not only the safety of personnel, but also high accuracy mapping of anti-tank and anti-personnel mines in record time. FAiNDER uses a groundbreaking form of artificial perception that fuses GPR, HSI, LiDAR, FLIR, Thermal, Magnometer, Computer Vision and Artificial Intelligence to deliver unprecedented advancements in identification, plotting and motion planning for the FAiNDER and autonomous UAV's, communications to a mobile data center.

Industrial Quad-copter drone

Lightweight Ground Penetraiting Radar (GPR)

Ground Control Station

Key Features

Drone-based solution

- Minimize risk to personnel
- Identify mines for clearance much quicker than any other method

W100 Ai Core

- Trained and built for high accuracy identification of mines

GPR

- Advance technology and engineering allows us to develop the first Ground Penetrating Radar that can be operated from a drone for this purpose.

Accuracy

- Precision dual Real Time Kinematics (RTK) and mmwave Altitude control together with stable flight,proprietary Artificial Intelligence allow for Watepodia's very accurate mine-detecting solution

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Explosive landmines represent one of the most risky issues for people that live in conflict areas. The military has been the first to deploy machines as an attempt to overcome the risks involved when the landmine detection process is carried out by humans.

The FAiNDER is an Ai Powered mine-detecting, surveying and mapping solution that takes place entirely from an industrial drone, ensuring not only the safety of personnel, but also high accuracy mapping of anti-tank and anti-personnel mines in record time.

The FAiNDER uses a groundbreaking form of artificial perception that fuses sensors, Computer Vision and Artificial Intelligence to deliver unprecedented advancements in identification, plotting and motion planning for the FAiNDER and autonomous UAV's.

FAiNDER optimizes data collection, enabling it to transfer less data, of higher quality and relevance, for rapid perception, tracking-tracing and mapping.

FAiNDER combines the world's first agile GPR, fused with HSI, LiDAR, FLIR, Computer Vision and embedded Ai to create software-definable and extensible hardware that can dynamically adapt to real-time demands. By enabling intelligent prioritization and interrogation, the FAiNDER can target and identify objects within a scene more effectively than ever before.

FAiNDER delivers higher accuracy, longer range, and more intelligent information to optimize identification software, enabling radically improved autonomous performance at a reduced cost.

FAiNDER uses a distributed architecture and at-the-edge processing to dynamically ID targets and objects of interest, while always critically assessing general surroundings. That enables accessible direct detection for every pixel and voxel in each frame.

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