

TERRA MIND

Instant 3D and AI Analytics
from Drone's Live Video

See, analyze, and understand terrain in real-time 3D — while the drone is flying.



KEY USE CASES

01 TACTICAL RECONNAISSANCE & ISR

Reconstruct a target site in 3D from a single drone flight — brief on lines of sight, distances, and AI-detected threats.

02 GROUND MANEUVER PLANNING

Gradient terrain model with practicable routes and defilade zones, plus 3D measurements of gaps — exportable to your C2 stack.

03 BATTLE DAMAGE ASSESSMENT

Rapid 3D of a struck target — quantify damage, compare to pre-strike baseline, refine targeting and follow-on planning.

04 CRISIS MANAGEMENT

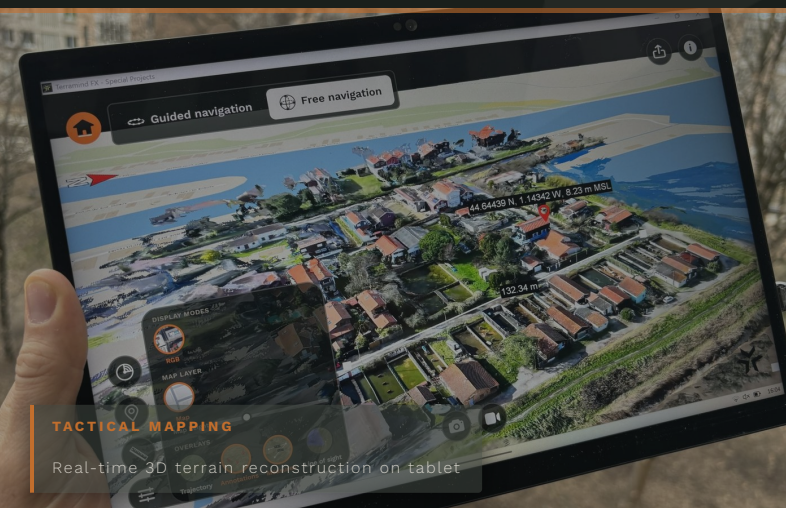
3D model of the building and surroundings — entry points, blind spots, lines of fire, all from a discreet drone flight.

05 DISASTER RESPONSE & DAMAGE ASSESSMENT

Real-time 3D of disaster zones — earthquakes, floods, fires. Compare to pre-event baseline, measure damage, support response operations.

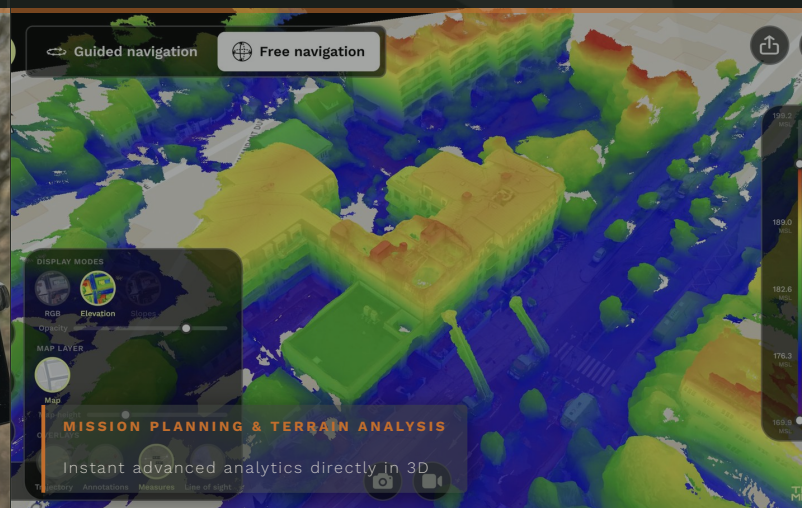
06 DRONE-SCOUTED GROUND ROBOTICS

A scout drone delivers live 3D terrain to ground robots — practicable trajectories on real geometry, continuously updated.



TACTICAL MAPPING

Real-time 3D terrain reconstruction on tablet



MISSION PLANNING & TERRAIN ANALYSIS

Instant advanced analytics directly in 3D

TERRA MIND

Instant 3D reconstruction of terrains and embedded AI analytics on mobile devices — fully offline.

01

REAL-TIME TERRAIN INTELLIGENCE

Photorealistic 3D and AI analytics live from drone video — **no re-mission, no delay.**

02

DESIGNED FOR THE FIELD

Simple operator UI, nothing to install on the drone. No cloud, no servers, no connectivity — 3D data retained even if the UAV is lost or destroyed.

03

DRONE-AGNOSTIC

Runs on off-the-shelf drones — no proprietary hardware, no LiDAR. STANAG 4609 and MAVLink ready.

04

OPEN & INTEROPERABLE

Open API and georeferenced outputs — plugs into your existing C2 and GIS stack.

COMPATIBLE PLATFORMS	- Any STANAG 4609 or MAVLink compatible drones - Parrot Anafi USA, UKR and 4K - Skydio X10D - DJI Mavic 3E/3T, Matrice 30/30T, Matrice 4E/4T
INPUT DATA	- Standard video streams and metadata, incl. STANAG 4609 and MAVLink - Compatible with day and night sensors - Compatible with multispectral payloads
3D MAPPING	- Proprietary and patented photorealistic 3D technology - Live 3D mapping during flight, even without GNSS - Reconstruction of dynamic elements (people, vehicles) - Tactical annotations anchored in the 3D terrain - Volume, surface and distance measurements (<2% tolerance)
EMBEDDED AI ANALYTICS	- Detection and tracking of people and vehicles - Drone detection and tracking - Estimation of lines of sight and intervisibility zones - Generation of elevation and slopes models
GEOREFERENCING	- GNSS coordinates for each 3D point - Overlay of already available 2D maps - Operates in GNSS-denied environments
REAL-TIME PROCESSING	- Optimized for Windows 11 tablets - Runs without Internet or server-based computations
EXPORT & INTEGRATION	- Open API for integration with GIS and C2 systems - Georeferenced 3D model to 3D Tiles - Standard 3D models to OBJ and GLB formats - Digital elevation models and orthoimages (GeoTIFF)

TERRAMIND

Real-time Spatial Intelligence.
On the field. Fully disconnected.