# TERRAMIND FX

## Live Tactical Intelligence On-the-field from Aerial Images

### 3D Terrain Mapping

Reconstruct large operational terrains with photorealistic quality and multi-scale levels of detail

### Enhanced Analytics

Generate orthographic images, estimate line of sights, detect landing zones, and plan ground paths

### Latency-Free on Mobile

Low latency reconstructions and analysis on mobile without waiting for the drone's return

### Interactive Visualization

Directly visualize the 3D map on-field with free-viewpoint navigation

### Connection Free

Perform reconstruction, analysis, visualization on-field without an internet connection

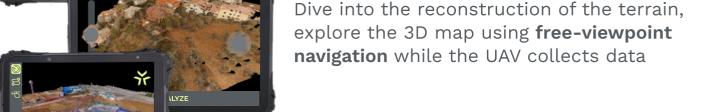TYN DALL FX

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Instant 3D terrain reconstruction and
analysis on mobile devices

Connect to a **live UAV feed** and **reconstruct the terrain in 3D in real-time** during the flight

Dive into the reconstruction of the terrain, explore the 3D map using **free-viewpoint navigation** while the UAV collects data

Immediately perform **real-time analysis** such as **line of sight** estimation, **landing zone** detection and ground **path planning**.
**Export and distribute** 3D maps and analysis reports to Remote Video Terminals

| Characteristics | Specifications |
|---|---|
| Live 3D terrain reconstruction | • Photorealistic radiance fields technology<br>• Robust to uncomplete captures<br>• Real-time progressive reconstruction<br>• Multiscale granularity: meters to kilometers |
| Analytics features | • Line of sight estimation<br>• Landing zone detection<br>• Ground path planning<br>• GPS coordinates extraction of each 3D point<br>• Orthographic image projection |
| Real-time edge processing | • Optimized for embedded mobile platforms<br>• No need for servers nor internet connexion |
| Supported UAV | • Parrot Anafi<br>• Custom integration with other UAV<br>• Support multiple UAV streams simultaneously |
| Export and Distribute | • Export Digital Elevation Maps (DTM or DSM)<br>• Save 2D and 3D map with analysis reports<br>• Share across teams |

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