TSG
EXPANDING YOUR ADVANTAGE

EarthSolver

Mission-Ready 3D Coordinates



EarthSolver is an automated, scalable system that generates accurate CAT-1 3D targeting coordinates from multi-domain sensor data, including real-time video streams and satellite imagery.

By streamlining the full lifecycle from image geo-registration to coordinate extraction, EarthSolver empowers users with independent CAT-1 precision capabilities—without requiring geospatial expertise.

The Components

Multi-Source Image Registration

EarthSolver integrates imagery and metadata from various platforms—satellite, UAV, airborne, or ground sensors into a coherent geo spatial Infrastructure.

Real-Time Data Exploitation

EarthSolver processes live video streams and satellite imagery in real time, automatically extracting 3D mapping data including precise 3D coordinates enabling rapid target bank creation for time-sensitive operations.

High-Resolution Geo Registration

Satellite images are rapidly processed, geo-anchored, and aligned to mission-specific grid references.

Aiming Points Selection

Operators visually match field data with imagery through an intuitive interface, enabling quick and accurate target selection.

3D Coordinate Extraction

EarthSolver generates CAT-1 grade 3D coordinates with full visual context. These coordinates are immediately compatible with a wide range of munitions and targeting systems.

Traditional coordinate extraction is slow, error-prone, and reliant on expert personnel—making it unfit for today's high-speed, large-scale operations.

EarthSolver Advantage

Rapid Setup - enables quick operational readiness, even in disconnected environments.

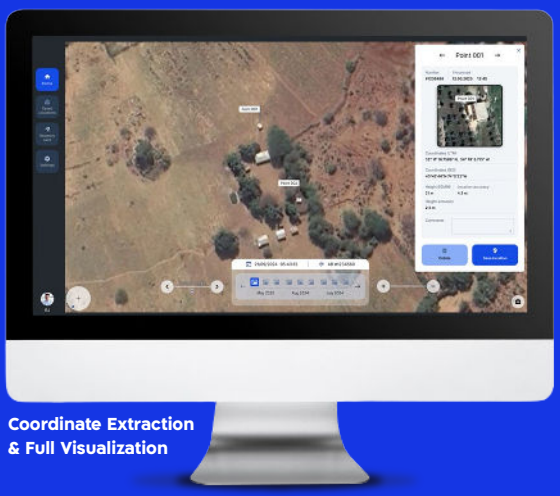
Real-Time Processing - Enables immediate extraction of mission-ready 3D coordinates from live video and satellite inputs, supporting dynamic and time-critical operations.

Repository Management - builds a secure, accessible database of verified aiming points for recurring operations.

Platform Compatibility - Aiming points are compatible with autonomous weapon systems, military C2 systems and mobile platforms.

Flexible Licensing and Training Models - customized to fit your operational needs.

Scalable - enabling fast extraction of large volumes of aiming points, including automated target bank generation from satellite and live video inputs.



Coordinate Extraction & Full Visualization



Choosing the Targets

Proven and Trusted

- Over a Decade of Operational Deployment
- Trusted by Tier-1 Armed Forces and Defense Manufacturers
- CAT-1 Accuracy
- Battle-tested in the world's most challenging environments

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