SOLE EARTH

AutoCAD-Based Terrain Intelligence

Fast, Accurate Survey & Design Workflows

Overview

SOLE Earth is a powerful yet user-friendly software for **land surveyors and civil engineers** working with DGPS, total stations, GPS, and data collectors. It transforms raw survey data into engineering-ready terrain models directly inside AutoCAD — enabling organizations to generate contours, grids, and surface intelligence without shifting between multiple platforms. The result: faster project execution, improved accuracy, and significant cost savings.

Key Capabilities

Automatic Contour Generation
Creates contours instantly from survey / CSV data

Grid Generation
Build structured grids from irregular field points

TIN & 3D Surface Modeling
Generate terrain models for engineering analysis

DTM Quantity Calculation
Accurate earthwork estimation with Cut & Fill

Native AutoCAD Workflow
No additional GIS or terrain software required

Google Earth & Map Integration
Live imagery directly inside AutoCAD

Applications

◆ Topographic Survey Processing

◆ Infrastructure & Site Planning

◆ Earthwork Analysis & Estimation

◆ Drone Survey Data Utilization

1   Mapping & GIS Integration

- Live Google Earth imagery directly inside AutoCAD
- Supports Google Map, Hybrid, Satellite, Bing Map & ArcGIS
- Works with WGS84 & UTM coordinate systems
- 100% accurate size & position when tracing maps
- Download map images for offline viewing & printing
- Download elevation data for any area or path
- Easily georeference existing drawings

2   Terrain & Surface Tools

- Generate shaded contours for enhanced terrain visualization
- Create 3D surface models from contour and survey data
- Accurate surface area calculation for terrain & land parcels
- Advanced slope analysis for detailed terrain understanding
- Adjustable contour intervals for customized analysis
- Multiple view options: Top, Front, Right & Isometric views

3   DTM & Earthwork Calculation

- Automatically generate DTM plans from survey data
- Fast & accurate DTM quantity (Cut & Fill) calculation
- Grid-based quantity calculation for precise estimation
- Define Region & Exclude Region for controlled calculations
- Supports irregular and complex site boundaries
- Reliable results for estimation, billing & planning

4   Drone Data & Advanced Survey Tools

- Direct processing of drone survey datasets inside AutoCAD
- Efficient handling of large drone-generated point clouds
- L-Section from TIN / Google Elevation / 3D Polyline
- Multiple Area Division commands
- Chainage marking on any Polyline
- Various utilities for Text, Line & Polyline editing

Data Compatibility

Input Formats:	.CSV, .DWG, .DXF, KML/KMZ	**Output Formats:** KML/KMZ (2D & 3D), Shape File
Dataset Size:	Handles unlimited file size and large datasets	**AutoCAD:** Compatible with any version of AutoCAD

Why Choose SOLE Earth?

All-in-One Workflow
No need for separate GIS or terrain software. Everything runs natively inside AutoCAD, eliminating data transfer errors and saving hours per project.

Precision You Can Trust
100% accurate map tracing, reliable DTM calculations, and engineering-grade contour generation — trusted by professionals for estimation, billing, and planning.

Effortless Learning Curve
Simple and intuitive interface means new users can work efficiently from day one, while experienced professionals benefit from speed and advanced tools.

Future-Ready Capabilities
From drone data processing to Google Earth integration and KML/KMZ support — SOLE Earth keeps you at the forefront of modern survey technology.

Who It's For

- Land Surveyors & DGPS/GPS Professionals
- Civil Engineers & Infrastructure Planners
- Drone Survey & Mapping Operators
- Construction & Earthwork Contractors

Get Started with SOLE Earth

Ready to transform your survey workflows? Contact us today.

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