

## KEY FEATURES

Automated extraction capabilities for increased productivity

Manual feature extraction from digital imagery and point clouds for robust QA/QC

Advanced tools to effectively manage high-resolution digital imagery, dense point clouds, and high-accuracy information extraction

ODBC database connectivity to facilitate multi-user data extraction and inventory maintenance

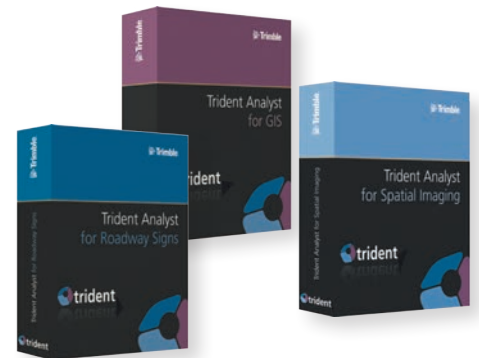
Immersed 3D imaging and point cloud core environment for enhanced geospatial extraction capabilities

Transform your land mobile sensor data into geospatial intelligence using Trident Analyst software by managing large data sets, interpreting images and point clouds, and automatically extracting features within key workflows.

### Create Geospatial Intelligence

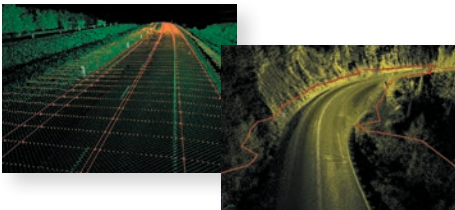
Mobile imaging and laser scanning systems create immense datasets that can quickly overwhelm manual workflows. The Trident Analyst interface is designed for robust object positioning, measurement, and data layer creation—ideal for the analysis of geo-referenced imagery and laser scanner data. Industry-leading manual and automation functions accelerate projects and increase productivity. Key automated processes include surface modeling, roadway sign and pole detection, lane marking detection, edge and breakline detection, road geometry and clearance measurements.

information extraction tailored for three mobile mapping workflows—GIS, Roadway Signs, and Spatial Imaging.



### Software Designed for Your Workflow

Trident Analyst software provides advanced



Trident Analyst for GIS	Trident Analyst for Roadway Signs	Trident Analyst for Spatial Imaging
<p><b>Rapidly populate and maintain GIS databases.</b></p> <ul style="list-style-type: none"> <li>Manual information extraction from digital imagery and point clouds</li> <li>User defined GIS data entry forms</li> <li>Projection of existing GIS database content on images and point clouds for easy data management</li> <li>Direct GIS database connection for multi-user data extraction and maintenance</li> </ul>	<p><b>Create and maintain a network-level roadway sign inventory.</b></p> <ul style="list-style-type: none"> <li>Includes functionality from Trident Analyst for GIS software</li> <li>Automated extraction capabilities, including pole detection with change detection, sign detection with change detection, sign recognition, and pavement marking detection</li> <li>Enhanced quality control tools and sign databases</li> </ul>	<p><b>Manage high-resolution digital imaging, dense point clouds and information extraction.</b></p> <ul style="list-style-type: none"> <li>Includes functionality from Trident Analyst for Roadway Signs software</li> <li>Enhanced automated extraction capabilities, including digital terrain models, roadway cross sections, roadway edges, roadway centerlines, vertical and horizontal clearances, and line-of-sight</li> <li>LAS and Land XML exports</li> <li>Supports advanced capabilities of the Trimble MX8 mobile spatial imaging system</li> </ul>

# Trident Analyst Feature Comparison

	Trident Analyst Viewer	Trident Analyst for GIS	Trident Analyst for Roadway Signs	Trident Analyst for Spatial Imaging
<b>DATA IMPORT AND EXPORT</b>				
ODBC Database Connectivity	✓	✓	✓	✓
ESRI SHP	Input only	✓	✓	✓
Point Cloud – Trimble Custom ASCII Format	View only	View only	View only	✓
Point Cloud – LAS 2.0	View only	View only	View only	✓
Point Cloud – LAS 1.1 & 1.2 Export				✓
Land XML Export				✓
<b>DISPLAY AND PLAYBACK</b>				
3D Map	✓	✓	✓	✓
Digital Imaging Playback	✓	✓	✓	✓
Point Cloud Viewing	✓	✓	✓	✓
Blended Digital Imaging and Point Cloud	✓	✓	✓	✓
<b>IMAGE / VIDEO MANIPULATION</b>				
AVI to JPG Conversion (with Tinting)		✓	✓	✓
AVI to AVI Segmentation		✓	✓	✓
Image Mosaic Generation		✓	✓	✓
<b>ACCURACY MANAGEMENT</b>				
Camera Bore-sight Calibration		✓	✓	✓
Laser Bore-sight Calibration			✓	✓
Control / Target Detection				✓
Point Cloud to Control / Target Registration				✓
Point Cloud to Point Cloud Registration				✓
<b>LINEAR REFERENCING</b>				
Spatial to Linear Referencing Tool		✓	✓	✓
<b>MANUAL FEATURE EXTRACTION</b>				
3D Measurements from Point Clouds	✓	✓	✓	✓
3D Measurements from Images		✓	✓	✓
Photogrammetric Feature Add / Delete		✓	✓	✓
Point Cloud Feature Add / Delete		✓	✓	✓
<b>AUTOMATED EXTRACTION</b>				
Pole Detection (with Change Detection)			✓	✓
Sign Detection (with Change Detection)			✓	✓
Sign Recognition			✓	✓
Sign Compiler			✓	✓
Sign Library			✓	✓
Pavement Marking Detection			✓	✓
Edge Detection				✓
Centerline Detection				✓
Road Modeler (DTM, Cross Sections, Profiles)				✓
Horizontal / Vertical Line-of-Sight				✓
Horizontal / Vertical Clearances				✓

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## NORTH & SOUTH

### AMERICA

Trimble Navigation Limited  
10355 Westmoor Drive  
Suite #100  
Westminster, CO 80021  
USA  
+1-720-587-4905 Phone  
+1-720-587-4878 Fax

## EUROPE & AFRICA

Trimble Germany GmbH  
Trappentreustr. 1  
80339 Munich  
Germany  
+49-89-231180-20 Phone  
+49-89-231180-90 Fax

## ASIA-PACIFIC & MIDDLE EAST

Trimble Navigation  
Singapore PTE Limited  
80 Marine Parade Road  
#22-06 Parkway Parade  
Singapore, 449269  
SINGAPORE  
+65-6348-2212 Phone  
+65-6348-2232 Fax

For more information contact us at:

[geospatial\\_sales@trimble.com](mailto:geospatial_sales@trimble.com)



[www.trimble.com/geospatial](http://www.trimble.com/geospatial)