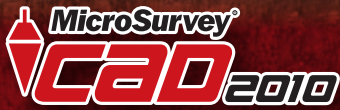


# MicroSurvey® Product Sheet

For more info: [www.mcmahon-larue.com](http://www.mcmahon-larue.com) (585) 436-1080



**MicroSurvey CAD 2010** - Powered by IntelliCAD®, Field to finish has never been this easy. Available in 4 different levels, MicroSurvey CAD is the design solution engineered especially for Surveyors. The Basic and Standard versions provide different feature levels to (calculate & draft, or survey calculations with minimal drafting). Premium includes COGO, DTM, and DESIGN functions. Ultimate includes everything plus a powerful point cloud visualization and manipulation tool.



**inCAD 2011** - Transform AutoCAD® into a survey and design solution. If your office is using AutoCAD, MicroSurvey offers inCAD to bring the full features of MicroSurvey CAD 2010 to AutoCAD versions 2010/2012.



**MicroSurvey embeddedCAD** - Powered with Autodesk Technology™ and is 100.0% compatible with AutoCAD DWG files. It's a fully-featured standalone surveying powerhouse with an industry-leading CAD engine. This program is built for surveyors that want to stick with a traditional CAD interface and engine, while having the ability to compute coordinates, balance traverses, annotate drawings, compute areas, and every other tool relevant to the modern surveyor.



**PointCloud CAD 2010** - Work with point cloud and LIDAR data sets with ease. Quickly create linework, surface models, and contours directly from the point cloud - then animate the whole thing with just a few clicks.



**STAR\*NET V7** - Survey network adjustment program. An easy-to-use Windows application that adjusts 1D/2D/3D survey networks using rigorous least squares techniques. STAR\*NET handles networks containing conventional observations combined with GPS vectors, with up to 10,000 adjustable stations.



**FieldGenius 2011** - FieldGenius has evolved into the most powerful and productive data collector in the land surveying market. Code-free linework, smart points and live graphics make FieldGenius the choice of organizations that value productivity. Now with HD graphics and more hardware support than ever!



**Seismic Surveyor 2011** - A GPS data capture and stakeout program designed specifically for the seismic surveying industry. Save time and money: Seismic Surveyor allows you to take shots, stake points, edit coordinates, stake lines - all at an incredible pace.



**Nautiz X7 and Algiz 7 by Handheld** exemplify the evolution of handheld computers. Packed with innovative advancements in PDA/tablet technology, they surpass everything else on the market with their mix of power, functionality and ruggedness.

**The Archer Field PC by Juniper Systems** is rugged, powerful, and versatile to handle your most demanding needs. It meets IP67 and Mil-Std-810F standards for drop, vibration, immersion, humidity, and operating temperatures.

**The Mesa Rugged Notepad by Juniper Systems** is a ruggedized tablet with a large screen - yet in a compact form. Utilizes Windows Mobile for an operating system.

The ultra-rugged **Allegro MX Field PC by Juniper Systems** is built to perform in the most demanding outdoor or industrial environments.




**OfficeSync®** - An easy to use file transfer and management service that enables field crews to move files directly to the office without leaving the job site. Or, the office can send stakeout jobs, or any other files, directly to their field crews with the click of a button.




**MapScenes Systems** - Evidence Recorder, MapScenes® Forensic CAD, MapScenes Capture, and MapScenes PointCloud, developed by MicroSurvey, is the premiere software solution for law enforcement professionals doing crime scene mapping and accident reconstruction.

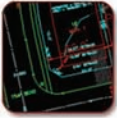
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**Incredible Data Extraction from Point Cloud Information**

  - Automatically extract paint line information from your point cloud.
  - Create surface and contour files directly from your point cloud data. On top of that, you can preview your work directly in the point cloud.
  - Easily extract low points using the bare earth routines.
- 


**Enhanced Point Cloud Visualization and Manipulation**

  - Powerful graphics and point cloud engine that is highly optimized for viewing and working with large data sets. Work with hundreds or millions of points with ease.
  - Cutting cubes, profile slices and layer toggles for ultimate control over what you see.
  - Bring drawing into point cloud viewer. And visa-versa - bring your point cloud into your CAD drawing.
  - Smooth zooming and panning - very easy to navigate a point cloud in real-time.
- 

**Integrated Survey, Design and CAD**

  - Download, Calculate, Design, Draft, Check and Print - all incorporated into a productive field-to-finish package
  - Familiar command line interface. Anyone trained in AutoCAD will be instantly productive with MicroSurvey CAD
  - All concepts are easy to understand - OSNAPs, coordinates, editing commands - trim, move, copy, scale, fillet, rotate all work with the same basic prompts as AutoCAD!
  - AutoCAD Compatible: MicroSurvey CAD is compatible with AutoCAD R2.5-2009 DWG files. DWG is the native format for all MicroSurvey CAD drawing files. No conversions are ever necessary!
- 


**Powerful Survey Calculations**

  - COGO - MicroSurvey has the simplest, most productive COGO entry inside a CAD system. Record all of your COGO entries automatically with our Batch system. Edit the Batch with a spreadsheet style editor and reprocess!
  - Data Collector Communication: MicroSurvey CAD is designed to work with data from all major total stations & data collectors
  - Helmerts Transformation
  - Multi-point averaging, cluster analysis, right of ways, areas, fixed areas, mass intersections, multiple perpendicular ties, stake computations, the list is endless...
  - Coordinate Transformations - Easily transfer data from one system to another. (UTM, State Plane, MTM ...)
- 

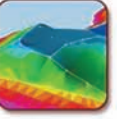
**Complete Traverse or Network Adjustments**

  - Angle Balance
  - Transit, Compass, Crandall's Classical Methods
  - Vertical Balance
  - Full 3D Least Squares Adjustment
  - Blunder Detection
  - Instrument Storage
  - Graphical ellipse display
  - Reprocessing and pre-analysis
- 


**Active Drawing Technology**

  - MicroSurvey's Active Drawing Technology is a new and efficient way to work with your survey data. Enables verification, editing, printing and manipulation of data in the drawing, in the coordinate and traverse databases, and during COGO calculations
  - Active Coordinate Editor
  - Active Traverse Editor
  - Active Batch COGO
- 


**Smart Information**

  - Smart Objects: lines, points, curves and text
  - Pick and edit objects automatically without initiating a command
  - Browse the entire coordinate database by simply picking any point in your drawing
- 

**Powerful DTM Contouring/Modeling Volumes**

  - 3D rendering
  - Virtually unlimited point capability
  - Simple to use: create a DTM and contour in four simple steps
- 

**Complete Site Design**

  - Site Design: Ponds, ditches, stockpiles and slopes
  - Road Design: Horizontal and Vertical Alignments, Cross Sectional Templates
  - Create cross sections of existing ground and design surfaces
- 

**Learning Resources**

  - 12 hours of built-in training movies equivalent to thousands of pages of documentation
  - Complete CAD documentation with movie links
  - Context-sensitive Html Help Menu system - the easiest system to use



MicroSurvey CAD is a Complete Desktop Survey and Design Program Created for Surveyors, Contractors and Engineers.

No plug-ins or modules are necessary. Complete survey drafting, COGO, DTM, traversing, volumes, contouring, point cloud manipulation and data collection interfacing are included. MicroSurvey CAD is compatible with field data from all major total stations and data collectors and is fully compatible with AutoCAD.

MicroSurvey CAD Ultimate is now available and supports point cloud & LIDAR data - along with some pretty incredible, time-saving utilities. See the Top Features (left) and Version Comparison (below) for more information.

Feature	Ultimate	Premium	Standard	Basic
Read/write AutoCAD DWG (R 2.5 to 2009) and DXF files	✓	✓	✓	✓
AutoCAD linetype, hatch files, shape files, font file compatible	✓	✓	✓	✓
Full COGO Calculations	✓	✓	✓	✓
Full AlphaNumeric Point Identifiers	✓	✓	✓	✓
Create lots and blocks quickly and efficiently	✓	✓	✓	✓
Create and place buildings or structures with flexible input - re-use and re-edit any building or structure	✓	✓	✓	✓
Efficient staking programs: compute stakes, select points with all CAD commands and generate automatic reports for field crews	✓	✓	✓	✓
Automated block/lot creation with dynamic building pad placement	✓	✓	✓	✓
Right-of-way design	✓	✓	✓	✓
Coordinate Transformations (SPC, UTM, and more)	✓	✓	✓	✓
Data collector interfacing (all major brands)	✓	✓	✓	✓
Traverse coordination, closure, balancing	✓	✓	✓	✓
Active Drawing Technology - Coordinate Editor, Traverse Editing, Batch COGO	✓	✓	✓	✓
Survey calculations - Linear regression, clusters, powerful line, curve, and point calculating programs	✓	✓	✓	✓
Field to Finish diagramming, layering, symbol placement	✓	✓	✓	✓
Bearing, Distance, Elevation, Description, Number placement	✓	✓	✓	✓
Full Suite of Text Commands - text, sliding, rotating, scaling, plus advanced Text Placement Tool	✓	✓	✓	✓
Basic Editing Commands - move & rotate	✓	✓	✓	✓
Basic Drawing Commands - line, arc, point	✓	✓	✓	✓
3D Least Squares Adjustment - with blunder detection, custom instrument settings, graphical ellipse plotting	✓	✓	✓	✓
Comprehensive Drawing Commands - Dtext, Mtext, line, arc, point, 2&3D polyline, hatching, splines, curve fitting, 3D faces, polyface mesh, more...	✓	✓	✓	✓
Powerful Editing Commands - trim, extend, fillet, chamfer, copy, array, break, join, more...	✓	✓	✓	✓
Raster Imaging - Georeferenced TIFFs, JPG, BMP, Digital Photo support	✓	✓	✓	✓
3D Surface model visualization with rendering	✓	✓	✓	✓
Surface Modeling - TIN/Grid/TGrid	✓	✓	✓	✓
Contouring	✓	✓	✓	✓
Multi-surface volume and bound area volume calculations	✓	✓	✓	✓
Sewer drafting	✓	✓	✓	✓
Alignment design & labeling	✓	✓	✓	✓
Cross section template editor	✓	✓	✓	✓
Profile plotting & vertical alignment design	✓	✓	✓	✓
Cross sectioning calculations and plotting	✓	✓	✓	✓
Site Design (grading & volumes)	✓	✓	✓	✓
Point cloud engine and advanced visualization tools	✓	✓	✓	✓
Cutting cubes, profile slices and visibility toggles	✓	✓	✓	✓
Automated paint line extraction	✓	✓	✓	✓
Surface modeling and contouring from point cloud data	✓	✓	✓	✓
Lowest point (by grid) and bare earth routines	✓	✓	✓	✓
Bring drawing into point cloud viewer; and visa-versa	✓	✓	✓	✓

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