



# MicroSurvey CAD 2019

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## *Features and Benefits*

MicroSurvey CAD 2019 is built on the latest IntelliCAD 9 platform with improvements like: natively read and write AutoCAD® 2018 and 2019 .dwg files; import Revit® and IFC BIM models; many new drafting tools including Arc-Aligned Text, Reference Lines, and much more; streamlined workflows for point cloud users; Artisan 3D Rendering; a new workspace for MicroSurvey Point Prep users; and much more! MicroSurvey CAD remains the absolute best choice for land surveying and civil engineering professionals worldwide.

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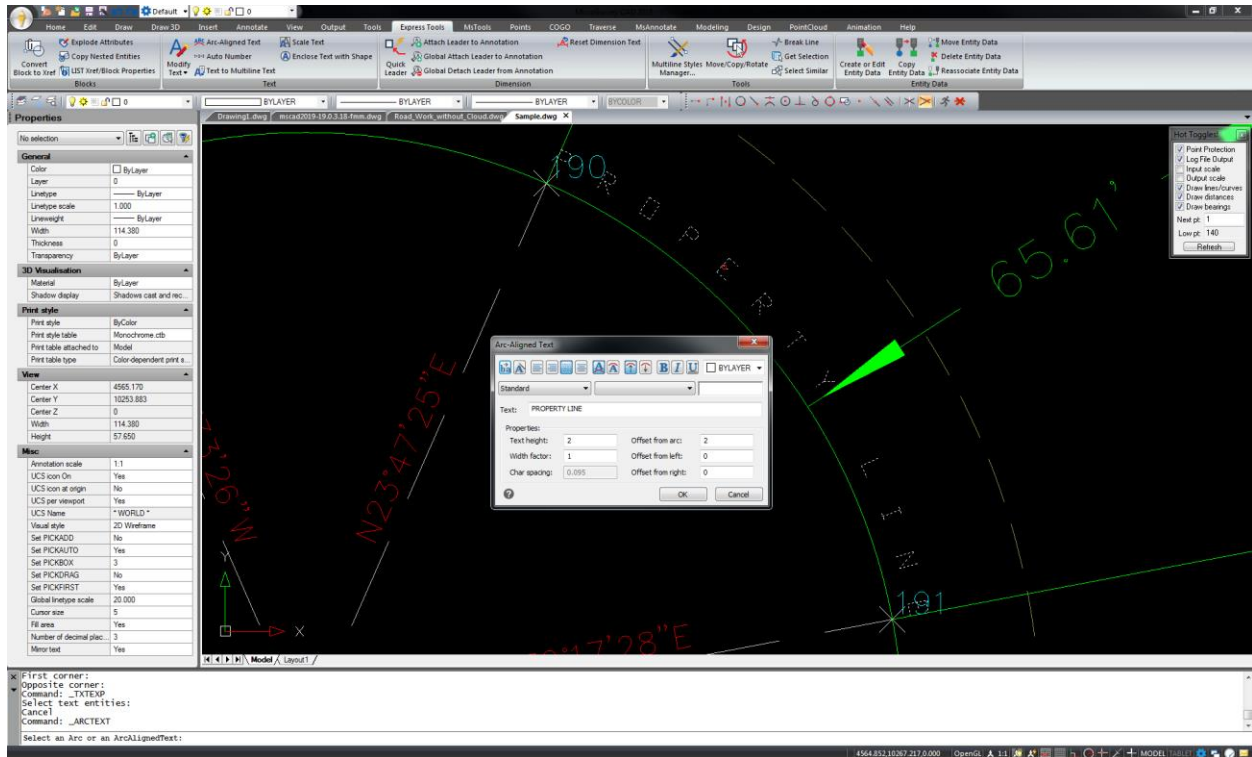
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## MicroSurvey CAD 2019

Release Date: November 30, 2018

### New: IntelliCAD 9

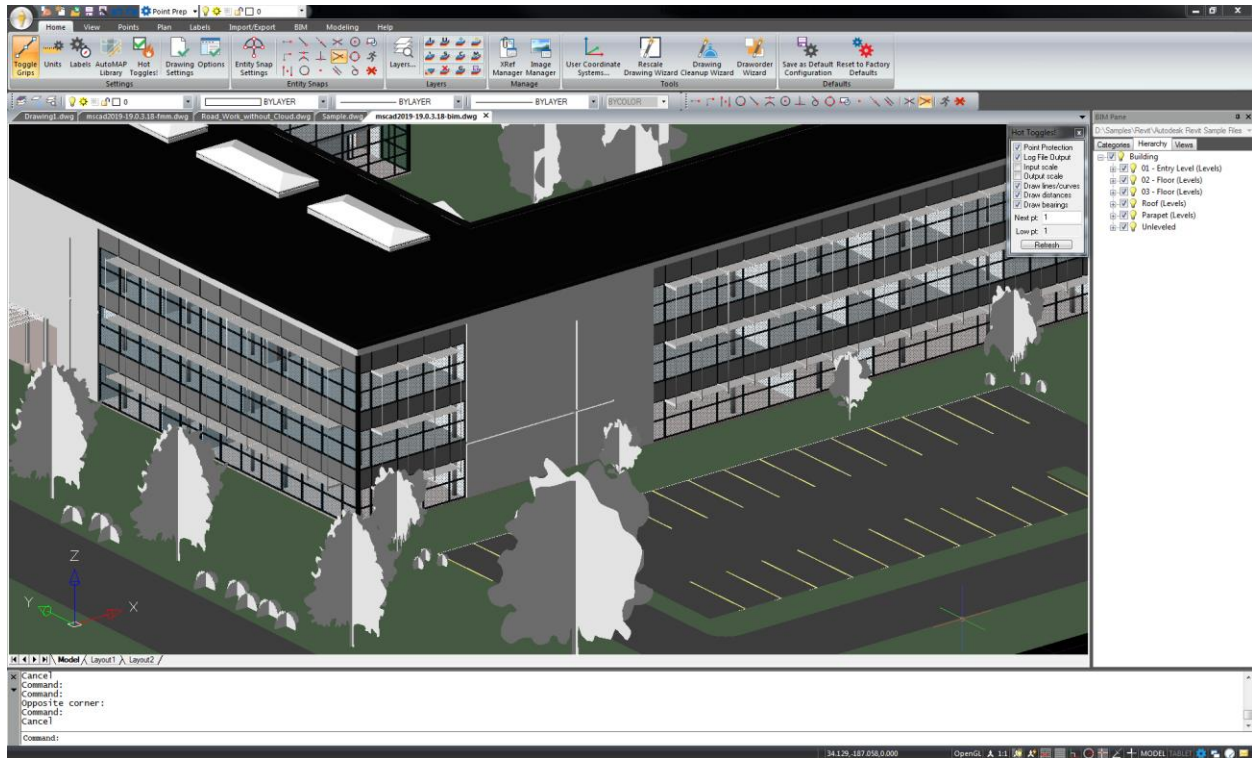
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Feature	Benefit
AutoCAD 2018 .dwg files	Open, edit and save AutoCAD 2018 format .dwg files, with no conversions involved, for maximum compatibility with AutoCAD 2018 and 2019 products. Includes new support to open and view drawings with Mechanical entities.
BIM Models	Import and work with Revit and IFC format BIM models; filter by categories; import IFC files as architectural entities.
Performance Enhancements	Additional improvements for working with Windows 10 Fall Creators Update. Incremental Saving option can reduce the time to save large drawings. Zoom and Pan commands are 3X faster with clipped XRefs.
User Interface Improvements	New UI elements include: Tool Palettes as another convenient way to start commands; BIM Pane for filtering and working with BIM models
Facet Modeler	Use the new Facet Modeler commands to draw basic 3D objects like spheres, cubes, etc. and to manipulate them with modeling operations like intersect, union, subtract, etc. These new commands let you model various 3D objects.
Many New Commands and Express Tools	Construction Lines, Arc-Aligned Text, Multiline Styles Manager, MOCORO, Enclose Text with Shape, Change Text Case, Justify Text, Text Fit, Scale Text, Rotate Text, Convert Block to XRef, List XRef/Block Properties, Copy Nested Entities, and more!
1310+ Bug Fixes	IntelliCAD 9.0 includes over 1310+ bug fixes since IntelliCAD 8.4a which powered MicroSurvey CAD 2018 SP1, and includes the latest ODA Teigha 4.3.2

## New: Point Prep Workspace and BIM/AEC Tools

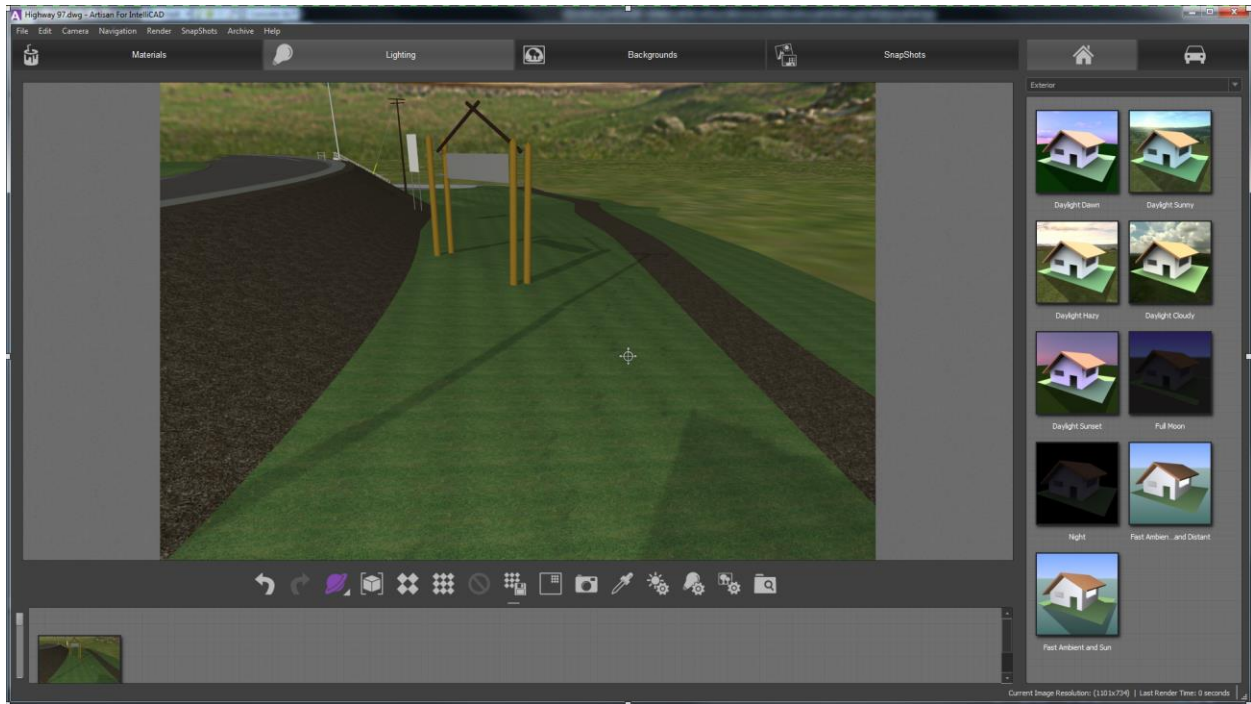
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Feature	Benefit
Point Prep Workspace	New “Point Prep” workspace is designed for users familiar with MicroSurvey Point Prep 2012 and 2014, which reduces the MicroSurvey CAD command set to those relevant for construction surveying, for example adding points to objects in an existing drawing and exporting them for stakeout in MicroSurvey Layout or Leica iCON, or for importing and labeling as-built surveys from MicroSurvey Layout.
Ribbon, Menu and Toolbars	The Point Prep ribbon interface can be switched to or combined with a legacy-style pulldown menus and toolbars to create a working environment almost identical to MicroSurvey Point Prep 2012 and 2014.
BIM Tools	Import and work with Revit or IFC format BIM Models that you receive from engineers or architects. Filter the BIM models based on their categories, for example perhaps display only the 12 <sup>th</sup> story of a highrise tower and hide all the HVAC components.
AEC Tools	Quickly model 3D buildings using the new AEC commands to draw walls (6 unique styles), doors (22 styles), windows (24 styles), and more. These models and objects are compatible with AutoCAD Architecture.

## New: Artisan Rendering

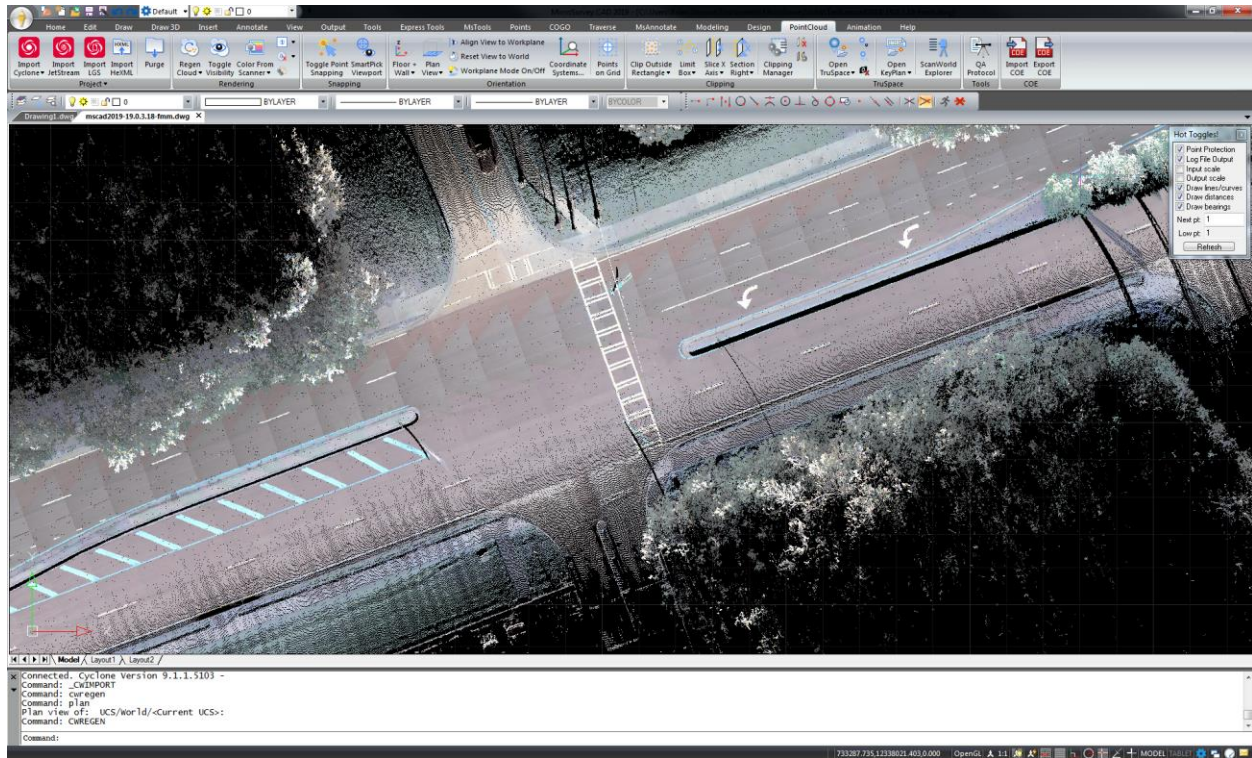
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Feature	Benefit
Artisan Rendering	Artisan Rendering is an advanced yet easy to use 3D rendering system that has been directly integrated with MicroSurvey CAD 2019. Its intuitive drag-and-drop interface lets you add materials, backgrounds, lighting and shadows to create spectacular raytraced renderings of your models!
Free Download, No License Required	You can download and install Artisan For IntelliCAD from the MicroSurvey Helpdesk, there is no cost and it does not require any additional licensing or activation steps.

## Enhanced: Point Cloud Engine

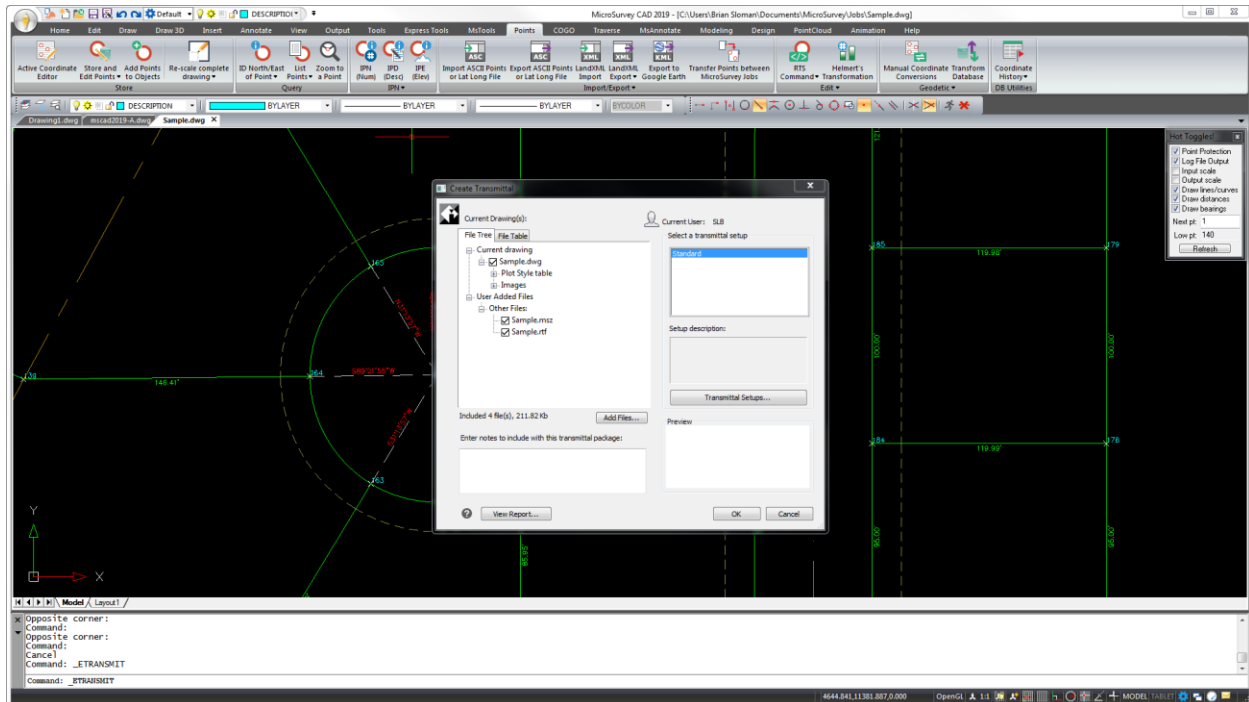
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Feature	Benefit
Leica EpcA 3.2	MicroSurvey CAD Ultimate uses the latest Leica EpcA 3.2 point cloud technology, which supports the latest Leica releases including Leica Cyclone 9.3, Leica JetStream 1.5 and Leica Cyclone REGISTER 360 1.5.
Dynamic Point Cloud Regeneration	When working with Cyclone point cloud data, view changes like zoom, pan and orbit now automatically cause the point cloud to dynamically regenerate so that it always shows the appropriate level of detail – no more CWREGEN needed! (Dynamic regeneration requires Cyclone 9.2.1 or newer.)
Import LGS File	<p>The new “Import LGS” command allows you to import *.lgs point cloud data files, which are self-contained, portable and highly efficient point cloud databases.</p> <p>Point clouds collected with the new Leica RTC360 laser scanner or other sensors can be published to an *.lgs file using Leica Cyclone or Leica Cyclone REGISTER 360 with a Cyclone PUBLISHER Pro license.</p> <p>Opening an *.lgs file in MicroSurvey CAD does not require any additional software such as Leica Cyclone or Leica JetStream.</p>

## Enhanced: Other Improvements

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Feature	Benefit
eTransmit with MicroSurvey files	Sending a drawing via eTransmit now automatically includes the drawing's corresponding MicroSurvey .msz database file, .rtf log file, and .cwpri point cloud settings file, making it easier and faster to create and transmit a complete package.
LandXML Export with Smart Polylines	When exporting a LandXML file, smart polylines from the survey database are now included in the exported PlanFeatures data.
KML Export with Smart Polylines	When exporting a Google Earth KML/KMZ file, smart polylines from the survey database are now included in the exported linework data.
Bug Fixes	MicroSurvey CAD 2019 includes several important bug fixes for issues present in previous releases – please refer to the Release Notes for complete details!