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Subscription Advantage Pack for AutoCAD® Map 3D 2010

The Subscription Advantage Pack for AutoCAD Map 3D 2010 contains valuable new functionality for using and visualizing point clouds, further extending the capabilities of AutoCAD Map 3D 2010 software. This pack also includes three new tutorials and Autodesk® ImageModeler™ 2009 software.

AutoCAD Map 3D customers also have access to the new TimeSaver Tools included in the Autodesk® Subscription Advantage Pack for AutoCAD® 2010.

FEATURES AND BENEFITS

- 1. Point Clouds**—Import and visualize large sets of point cloud data, such as 3D laser scanning/ LiDAR data sets with millions of points, in AutoCAD Map 3D 2010 with the Point Clouds feature. With the Point Clouds feature, you can:
 - Import LiDAR data in LAS and ASCII file formats
 - Visualize large point clouds in 3D
 - Stylize point data based on LAS classifications, RGB, elevation, and intensity
 - Filter point data by spatial extent and LAS classification, elevation, or intensity
 - Mask and delete points
 - Extract point data to create surface models
 - Snap to points within the point cloud using standard AutoCAD software tools
 - Export surfaces as digital elevation models (DEMs) in GeoTIFF and ESRI® ASCII GRID file formats
 - Export point cloud layers to LAS, ASCII, and SDF file formats

Some common uses of LiDAR data in AutoCAD Map 3D 2010 may include creating DEMs and contour data from DEMs, digitizing as-built features for design and records management (such as building footprints, road centerlines, and utility asset locations), and visualizing power lines and surrounding vegetation for right-of-way management.

- 2. Tutorials**—Three new tutorials offer hands-on exercises that help you learn how to perform specific tasks with AutoCAD Map 3D 2010 using realistic sample data:

Point Clouds—The Point Clouds tutorial helps you learn how to use the point cloud functionality in the Autodesk Subscription Advantage Pack for AutoCAD Map 3D 2010. Tasks covered include the following:

- Adding LiDAR data in LAS format
- Merging files and creating indexes
- Displaying and stylizing point clouds using spatial filters, density controls, and LAS classifications
- Creating surfaces from point cloud data

Survey Tools—The Survey Tools tutorial helps you learn how to add and organize survey point data in AutoCAD Map 3D 2010. Tasks covered include the following:

- Entering the location of new features based on field-collected measurements
- Using coordinate geometry (COGO) commands to calculate the position of features
- Importing electronically stored point data and organizing it into point groups
- Exporting points to geospatial file formats

Annotation Tools—The Annotation Tools tutorial helps you learn how to add text to maps and drawings using the following methods:

- Annotation templates—Label drawing objects with information specific to each object, such as object data, linked data properties, and native drawing properties
- Styles—Label geospatial features using attributes and static text
- Text layers—Add annotation that is not tied to a particular drawing layer or feature class; for example, use text layers to label large areas on a map, or add notes to a map

- 3. Autodesk ImageModeler 2009**—ImageModeler 2009 image-based modeling and photogrammetry software helps you generate 3D models from 2D digital images, giving architects, designers, and entertainment creators a new approach to 3D modeling.



PRODUCT COMPATIBILITY

The Subscription Advantage Pack for AutoCAD Map 3D 2010 works with:

- AutoCAD® Map 3D 2010
- Autodesk® Education Master Suite 2010
- Autodesk® Education Suite for Civil & Structural Engineering 2010

LANGUAGES AVAILABLE

The Subscription Advantage Pack for AutoCAD Map 3D 2010 is available in:

- English
- Chinese (Simplified)
- Chinese (Traditional)
- Czech
- French
- German
- Hungarian
- Italian
- Japanese
- Korean
- Polish
- Russian
- Spanish

Subscription Advantage Packs can be downloaded by signing in to Subscription Center. For more information visit www.autodesk.com/advantagepacks.



NOTE: Autodesk ImageModeler and Autodesk Model Review are available in English only.

Cover rendering courtesy of Natalie Chusa.

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