



*“Revolutionizing Revit modeling from scan data like nothing else on the market!”* - Larry Kleinkemper, CEO, Lanmar Services

## EdgeWise Building

*Automated Feature Extraction + Object Recognition + Full Revit Integration = Fast and Accurate As-Built Modeling*

Modeling buildings from scan data in Autodesk® Revit® is costly and time-consuming, to be sure! **EdgeWise Building** incorporates new, groundbreaking algorithms that can identify and extract some of the most common building features from point clouds and automatically create Revit family objects. The model will export seamlessly to Revit as an intelligent model, saving you countless hours.



### Automatically Extract Walls and Surfaces in the Scene

The **EdgeWise Building** algorithms have been fine-tuned to extract the maximum amount of planar features from point clouds. The latest release of **EdgeWise Building** will give you a major competitive advantage in your as-built BIM modeling workflow by automatically extracting and exporting wall and surface family objects.



### Full Revit Integration Dramatically Speeds Your Scan-to-Revit Workflow

The ClearEdge scientists worked closely with the Autodesk team to ensure full integration with Revit. Walls, windows, doors and other planar features extracted by **EdgeWise Building** will be imported directly to Revit Family objects. This deep integration with Revit means key object intelligence, such as family type, is maintained when the **EdgeWise** model is brought into Revit.

### Object Recognition Technology Automatically Identifies and Inserts Appropriate Revit Family Objects

The new object recognition technology in **EdgeWise Building** can identify and extract recurring items in a data set and then export them to the correct Revit families. Now you'll be able to quickly find windows, doors and other features in a project and automatically export them to the appropriate Revit families.



## EdgeWise Building

### Billion Point Visualization Engine Gives a High-Def View of the Scene

The new **EdgeWise** point cloud visualization engine has the ability to show billions of points in a single scene. This high-definition view of your project allows you to precisely verify the accuracy of your model and make any minor adjustments with our suite of editing tools.

### Groundbreaking New Technology Funded by the National Science Foundation

The object recognition technology, feature extraction algorithms and automated modeling routines in **EdgeWise Building** represent the most advanced technology development initiative in the industry. Funded by two generous

grants from the National

Science Foundation,

the new algorithms at the core of **EdgeWise Building** advance

the state-of-the-art in automated modeling like nothing before.



### New Features in EdgeWise Building

- Full Revit integration brings **EdgeWise Building** models directly into Revit as correct family objects
  - Automatically extract walls, windows, doors and other planar features
  - Automatically merge overlapping surfaces into a single model
  - Batch process up to 1,000 scans and an unlimited number of points
  - New object recognition technology recognizes and extracts recurring items such as windows, doors, equipment and other critical objects
- Key intelligence is automatically calculated and logged in our SmartSheet™ table of objects
- Semi-automated editing tools allow you to adjust the extracted walls, windows and other surfaces and objects if necessary
- Billion point visualization engine gives you a high-definition view of your project
- AutoCAD, MicroStation and other CAD platforms are also supported in addition to Autodesk Revit



To arrange a demonstration or request a 14-day free trial, contact:  
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**CLEAREDGE<sup>3D</sup>**  
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