



Bentley Pointools V8i

Powerful and Fast Pre-processing of Point Clouds

Bentley Pointools supports the viewing, animation, and editing of point clouds in stand-alone workflows, enabling the intuitive cleanup and preparation of point clouds to make them easier to reuse in downstream applications. Users can streamline scan-to-model workflows by importing point clouds from all major scanner manufacturers.



Use up to 128 layers; lock, rename, save, and delete layers easily. Global LAS classifications and create layers from clouds.



With the new object animation tools it's easy to render impressive movies. These tools work seamlessly with the clash detection tools.



New clash detection tools allow the user to identify clashes between point clouds and point clouds, or point clouds and 3D models.

Fast Point-cloud Engine

Bentley Pointools is powered by Pointools Vortex, the industry's leading point-cloud engine, which enables the support of very large point clouds. Users can work on huge datasets with billions of points, manage scene parameters interactively, and rapidly load and unload native format point-cloud POD models. The software uses real-time, high-performance streaming to provide incredible display performance while visually maximizing point-cloud density, clarity, and detail.

Improved Visualization

Point clouds can be visualized with a range of fully blendable shading options enabling easier visual interpretation on the fly and production of enhanced imagery or movie content. The 3D Brush enables the coloring of the point cloud, which is ideal for color correction, detailed highlighting, or visual mock-up, while layer colors can be used for per-layer colorization with controllable opacity. Bentley Pointools provides confident identification of clashes between objects, enabling dynamic tests for clashes along a pre-defined movement path or as objects are repositioned. Bentley Pointools also quickly and easily identifies how an asset has changed over time through point-cloud differencing.

Support for Multiple Object Types

With Bentley Pointools, users can easily import and view these types of objects:

- Point clouds, which can be imported from a large range of scanners.
- Textured 3D models, which can be imported from a number of common model formats.
- 2D CAD drawings, which can be imported from DXF, DWG, and SHP file formats.

Bentley Pointools also provides the ability to use Pointools POD files with all MicroStation-based applications, eliminating the need for time-consuming data conversion.

Layer-based Editing and Segmentation

Bentley Pointools features unique point layer technology for unrivaled point-cloud editing speed. Move points between one of 128 layers to isolate particular areas for detailed editing, making it easier for users to manipulate, clean up, or segment the point-cloud model to enable enhanced understanding and easier reuse.

Point layers can also be used to visualize and edit point-cloud classification and also support scan-by-scan editing workflows. All editing operations are saved in an editing stack, which can be manipulated, saved, reloaded, and applied to a different dataset, compressing editing workflows.

Bentley Pointools offers two measurement tools: point information (or single point) and point-to-point. Notes can also be attached to objects within the workspace, providing a convenient way to annotate a scene. Both coded measurements and notes can be exported as a text or HTML file.

High-quality Deliverables

With Bentley Pointools, users can generate professional-quality images, animations, and movies. Users can produce high-resolution orthographic and perspective images, by rendering snapshots of any size, limited only by their computers' graphics hardware and available memory. Users also have the flexibility to set the image size and scale, while benefiting from the choice to output rulers, scale, and positioning for accurate reuse.

Bentley Pointools also provides an intuitive timeline-based fly-through and object animation system for users to quickly and easily produce movies. Anti-aliased rendering and motion blur enable users to generate high-quality animations with little or no aliasing and moiré. A graph editor, full object transformation control, and scripting provide advanced animation capabilities.

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Michael Hay



Bentley Pointools V8i:

Landscape Architecture and Digital Technologies Jillian Walliss, Heike Rahmann, 2016-02-12 Landscape Architecture and Digital Technologies explores how digital technologies are reshaping design and making in landscape architecture While the potentials of digital technologies are well documented within landscape planning and visualisation their application within design practice is far less understood This book highlights the role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation bridging the interface of the conceptual and material the virtual and the physical Drawing on interviews and projects from a range of international designers including Snhetta Arup Gustafson Porter ASPECT Studios Grant Associates Catherine Mosbach Philippe Rahm PARKKIM LAAC and PEG office of landscape architecture among others the authors explore the influence of parametric modelling scripting real time data simulation prototyping fabrication and Building Information Modelling on the design and construction of contemporary landscapes This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm Crossing critical theory technology and contemporary design the book constructs a picture of an emerging twenty first century practice of landscape architecture practice premised on complexity and performance It also highlights the disciplinary demands and challenges in engaging with a rapidly evolving digital context within practice and education The book is of immense value to professionals and researchers and is a key publication for digital landscape courses at all levels

CADmaster №1, 2014 , Bentley Richard Claverhouse Jebb, 1968 **Bentley "old Number One"** Michael Hay, 1999
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