



VECTORWORKS 2020 SOFTWARE TOP FEATURES

TOP FEATURES

Live Data Visualization: Unlike other software programs that limit your use of project data, Vectorworks brings data visualization to the live design environment. Quickly change objects' attributes using data parameters that allow you to view everything from errors to the impacts of your decisions — all while you're designing. And because it's in the live design environment, you can edit an object's data as you're designing and see the impact of those changes; for example, you can have doors turn red when they lack fire protection. You will also experience greater efficiency in your process by being able to visualize data for error checking, work validation and quality checking.

History-based modeling: The 3D solids modeling commands in Vectorworks are now much more flexible and intuitive, supporting nearly endless permutations and combinations — both in the sequence of creating an object, as well as in modifying specific steps later in the design process. No need to "start again" when something needs to be changed, enabling you to experience more natural and iterative modeling.

List Browser Direct Editing: Software interfaces with a lot of options can become unwieldy to users — especially when you need to navigate through one or more dialog boxes and option tabs to make minor edits. With Vectorworks 2020, eliminate frustrations by directly editing fields in a list browser, such as the Navigation palette or the Organization dialog. Directly edit common items such as class, layer, viewport or sheet names, increasing your workflow efficiency. All you have to do is click and edit.

Vectorworks Graphics Module Level Detail: Our latest Vectorworks Graphics Module can now better control the graphic display of complex objects. The improvements will hide covered objects, auto-reduce meshes and simplify the level of detail on native objects — leading to dramatically improved file performance while speeding up the responsiveness of your Vectorworks files. Enjoy faster file navigation, view changes, tool operations, more responsive models and the ability to handle much larger projects.

Walkthrough Animation: Presenting animated videos of your models is now greatly simplified with a reinvention of the walkthrough animation options in Vectorworks 2020. Transform walkthrough paths and camera movements into professional real-time animations that are significantly easier to accomplish. You can even accomplish 360 panoramas with just one click. And with the added ability to render your videos in the cloud, you can create animations without interrupting your workflow.

AEC AND LANDSCAPE INDUSTRIES

Data Manager: We've introduced a new Data Manager to simplify how you access and manage data in your projects. With an easy-to-use interface, the Data Manager gives you complete control over an object's data from sources such as IFC and custom data records. Plus, you can now create custom Data Sheets — a more straightforward method for defining which data needs to be attached to different phases of your projects — while allowing collaborators to use those same entry points to add their data to the appropriate object instantly.

GIS Improvements: With the new Geographic Information System (GIS) toolset and integration with Esri's ArcGIS online services, the process of integrating GIS information with your BIM model just got a whole lot easier. With proper geographic coordinates and projection in the Vectorworks file, you can accurately geolocate your project by simply entering an address. Instantly incorporate street map



imagery and aerial imagery in your design through ArcGIS. And with a paid ArcGIS online service plan, you can access more maps and other imagery directly in Vectorworks.

Hardscape Alignment: Unlike other landscape software applications, Vectorworks understands the complexity of hardscape solutions on a site and the impact it can make to its surrounding environment. With customizable approaches to model hardscapes, you can now use the 3D geometry of other features to align and conform hardscape objects into 3D polygons, grade objects, roadways or other hardscapes, making it possible to design paved surfaces to drain properly, align to other paved surfaces and be accurately modeled and perfectly controlled.

IFC referencing: With a new ability to reference IFC files, say goodbye to a cumbersome, manual process of reimporting IFC files from consultants who make changes. IFC referencing will minimize the work involved in managing IFC information in Vectorworks — making change management in this collaborative workflow simpler.

Section Improvements: Enhanced section viewports in Vectorworks 2020 simplifies your ability to create high-quality drawings directly from your BIM model. With improvements such as the control in level of detail for essential building elements such as windows and doors, the ability to adjust cut plane settings on individual objects, and the option to show color fills and planar objects in hidden line viewports, section viewpoints can help you streamline documentation.

ENTERTAINMENT INDUSTRY

Schematic Views: A whole new design view to handle the complex nature of modeling and documenting rigging objects is now possible in Vectorworks Spotlight. The new Schematic View places a 2D Plan View of the 3D Model geometry on a design layer for layout, dramatically speeding up your workflow. The 2D Schematic View is a live reference of the 3D model, so when you adjust either view, the other will update. Additionally, a reduced number of viewports will significantly speed up the overall performance of your document.

NDI Support for Vision: You can now stream video from a media server into Vision using NDI streams. NDI does not require any additional or expensive hardware, such as capture cards. NDI also supports streaming over Ethernet as opposed to HDMI while requiring minimal setup, making it easy to preview the media server content in Vision.

Truss Improvements: There is no longer a need to maintain multiple libraries for different types of trusses. With support for classing of truss parts, you can now use classes to control custom configurations of a truss. Other improvements include making it possible to rotate trusses, lighting pipes and lighting ladders about any axis, making the modeling process faster and more efficient.

Hinge plates for Braceworks: With this latest edition of Braceworks, hinge plates are now available, enabling you to create a more realistic representation of the connection and rotation of truss systems — complete with accurate Braceworks analysis.

DMX Patching: As the complexity and scale of productions grow, there is a need for tools to help with DMX patching tasks. A new standard patching window in Spotlight provides you with an interactive and graphical interface for quick access and an easy way to patch, track and error check fixtures directly from your lighting design.