Bentley
Advancing Infrastructure

PRODUCT DATA SHEET

MicroStation®

Design, Model, and Manage Infrastructure

MicroStation is a solution engineers and designers use to model, document, and manage their infrastructure projects better and faster. The software enables you to deliver innovative designs and creative visualizations while consolidating critical project elements into a single environment. With MicroStation, you have the power, control, efficiency, and security to reliably deliver the most demanding infrastructure projects from the smallest to the largest.

MicroStation enables you to develop and document improved designs in less time by connecting you to drafting and modeling capabilities, contextual geospatial data, and design, digital, or review teams.

INTEGRATED MODELING AND DOCUMENTATION WORKFLOWS

MicroStation provides a connected environment for comprehensive project delivery with users, projects, and your enterprise. The software enables you to reduce costly on-site changes with digital workflow processes where everything is interconnected. It allows you to see and use everyone else's data within the confines of your own application. Leverage the software to increase productivity, eliminate lag time, and reduce project delays by minimizing survey rework and design delays.

With MicroStation, you now have a personal portal to access learning, communities, and project information. The project portal enables your project teams to review project details and status, and gain visibility into project performance. Your project can take advantage of the connection with iTwin® services including project performance dashboards, issues resolution, and scenario services.

DEVELOP IMPROVED DESIGNS, FASTER

You can develop fully realized designs with unlimited design freedom made possible by MicroStation's robust modeling capabilities, including the ability to draft in 2D, model in 3D, develop comprehensive model documentation, analyze and visualize models, accelerate workflows, and secure your data.

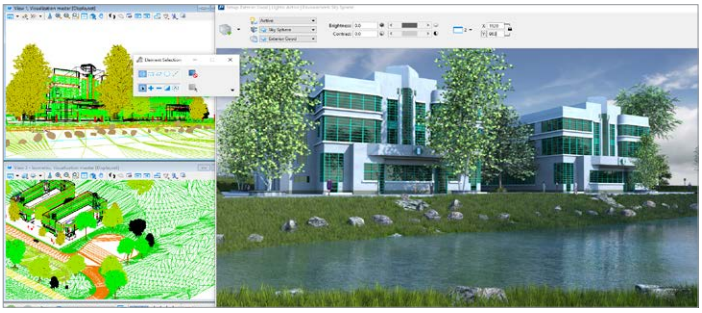
MORE INFORMED TEAMS

MicroStation helps you ensure that all stakeholders are more informed by providing clearer communication of design intent with intelligent deliverables production capabilities. With informed teams, you can now accurately generate reports and tables from business data that is linked to the elements, bringing intelligent models to the users and stakeholders.

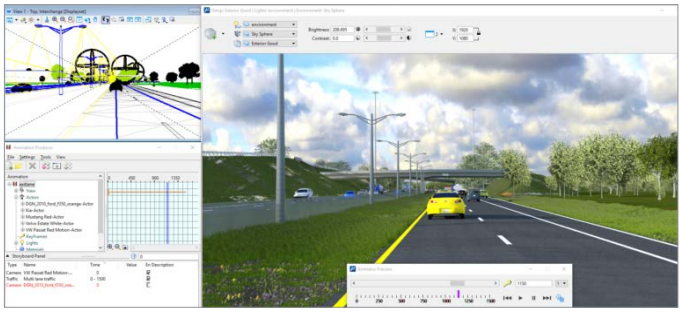
Use MicroStation to create animations and lifelike renderings, generate intelligent documentation, create digital twins, review designs collaboratively, and maintain and enforce standards.

FREEDOM TO FOCUS ON DESIGN

Enjoy the freedom to focus on design with improved integration of information and teams made possible by MicroStation's interoperable and scalable platform. The application includes capabilities to geospatially locate projects, incorporate common design formats and referenced design content, integrate point clouds, raster imagery, and reality meshes, manage design changes, work in a personalized environment and extend and customize workflows.



Create lifelike visualizations using the built-in VUE rendering engine.



MicroStation allows you to manage any kind of infrastructure project's data aligned with real-world context.

SYSTEM REQUIREMENTS

MINIMUM: Windows 11 or 10 (64 bit)/ Windows 11 or 10 (21H2), Windows Server 2019, Windows Server 2016 (64 bit) Intel® or AMD® Processor 1.0 GHz or greater, 4 GB memory

RECOMMENDED: 16 GB memory

MicroStation At-a-glance

DEVELOP BETTER DESIGNS, FASTER

- Develop precise drawings using a comprehensive set of drafting tools to efficiently create 2D geometry
- Develop models in real-world context with a wide range of 3D modeling tools
- Build and edit curve, surface, mesh, feature, and solids models
- Build functional and parametric components with predefined variations
- Develop comprehensive model documentation
- Analyze and visualize models based on their geometry or attributes
- Detect and resolve clashes
- Apply real-time display styles to visualize models based on an object's height, slope, and other embedded properties
- Speed design tasks and related workflows with intelligent interactive snapping
- Ensure the integrity of your documents using digital signatures and control the rights to view, edit, print, and copy file contents, including a pre-defined access expiration date

BETTER INFORMED TEAMS

- Generate and place accurate tables and reports derived from business intelligent elements
- Produce realistic movies and simulations from design, construction, and operational models with VUE rendering engine
- Render in near real-time with photorealistic rendering
- Incorporate libraries of physically correct materials, lighting, and rich photorealistic content (RPC)
- Use point-and-shoot to physically correct materials and lighting libraries
- Update all annotation dynamically
- Manage drawing views across an entire project
- Drag and drop plans, elevations, and sections to create documentation
- Slice and filter 3D models to improve interactive visualization
- Update drawings automatically when 3D models change
- Coordinate 3D models and 2D drawings automatically
- Synchronize existing designs with an iModel® to create a digital twin
- View latest revisions and changes to the project
- Cloud-based Issue Resolution Service for reviewing, tracking, and resolving across the entire project team
- Create rich, multidiscipline models for design review
- Consume and coordinate electronic design reviews
- Manage CAD standards with configurable checking capabilities
- Easily manage all styles for dimensions, text, lines, detail symbols, and display

FREEDOM TO FOCUS ON DESIGN

- Integrate geospatial information from thousands of supported coordinate systems
- Access live data from Esri ArcGIS™ REST Feature Services, Esri ArcGIS REST Map and Image Services, OGC Web Map Services (WMS and WMTS), OGC Web Feature Services, use real time GPS data, Microsoft Bing Maps, and reference geospatial PDFs. Incorporate real-time GPS data
- Incorporate Bing maps
- Create and reference geospatial PDFs
- Read, share, and consume precise data in key formats such as Autodesk RealDWG™ (share and consume), IFC (read), and Esri SHP (read)
- Aggregate and assemble multiple file formats including PDF, U3D, 3DS, Rhino 3DM, IGES, Parasolid, ACIS SAT, CGM, STEP AP203/ AP214, STL, OBJ, VRMLWorld, SketchUp SKP, and Collada
- View and work with design information from others in real-time
- Live referencing of 2D/3D DGN, DWG, and large image files
- Natively reference PDF files into designs
- Attach versioned files including design history
- Navigate through file history
- View and manipulate point cloud data in 17 popular formats without translation
- Incorporate raster imagery of all types, including aerial and satellite imagery, as well as scanned documents
- Dozens of supported file formats including CALS, BMP, TIF, GeoTIFF, and JPG
- Integrate engineering-ready phototextured reality meshes created from photos
- Record all design changes for rich revision control
- Compare and plot design file changes
- Group tools and tasks and customize interface
- Employ universal database connection
- Create user-defined macros
- Create customizable cursor menus
- Personalized in-application learning and feature recommendations
- Integrate with enterprise systems using a wide range of available applications to customize the user interface
- Develop solutions using Microsoft (VBA), .NET, C++, C#, Python, as well as user-defined macros

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FIND OUT MORE AT BENTLEY.COM

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