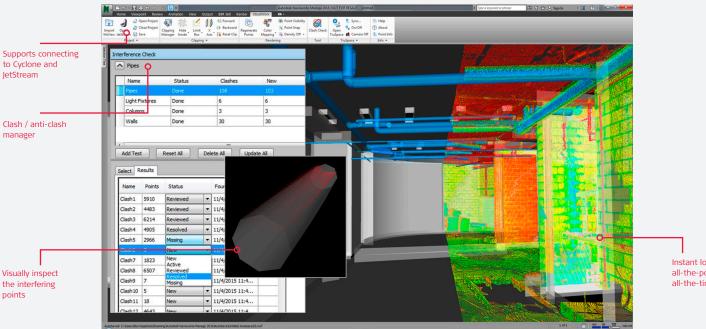
Leica CloudWorx for **Navisworks**

Point cloud plug-in software





Instant load and all-the-points, all-the-time

Efficient management, viewing and review of as-built laser scan data and 3D project design model for architectural, plant and civil planning and construction projects.

Leica CloudWorx for Navisworks is a plug-in software for using as-built point cloud data directly within Navisworks. Users take advantage of the familiar Navisworks interface and tools to shorten the learning curve for working with laser scan data.

Leica CloudWorx along with the powerful Leica Cyclone and Leica JetStream point cloud engines let users efficiently visualise and process large point cloud data sets as a virtual as-built model all directly within Navisworks.

Leica CloudWorx greatly improves the point cloud viewing experience within Navisworcks, resulting in a better and more efficient user experience for projects of unlimited size, and greatly improved productivity on the order of 50% over built-in capabilities.

Features & benefits

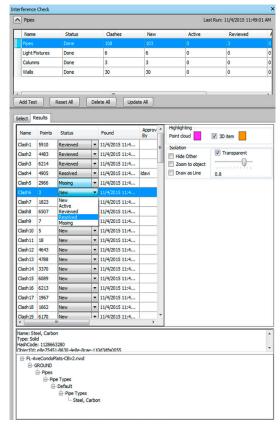
- Custom clash/anti-clash checking with saved project environment settings
- Export Clash Manager results for easy reporting and/or analyses
- Cloud colour mapping control, rainbow intensity, grey scale,
- TruSpace panoramic view with background image included and driving main Navisworks display window
- Optional Cyclone or JetStream data sources for ultra-high speed point cloud rendering







Leica CloudWorx for Navisworks



Point cloud clash/anti-clash manager enables the user to perform interference checking against specified geometry and the point cloud. Export clash manager results for easy reporting or analysis

Control point cloud display

Easy-to-use tools allow a user to quickly define specific areas of interest to display while hiding other portions of a point cloud for improved visualisation and comprehension. Quickly work in 2D and 3D by using fences, cutplanes, slices or 3D limit boxes. Visualisation control improves users productivity by bringing speed, scale and simplicity to the project visual environment.

The TruSpace panoramic point cloud viewer is unique to CloudWorx, allowing for the display of the scanner's panoramic images to highlight noteworthy details and improve the users comprehension of the scene. The TruSpace window can drive the navigation and viewing of the main Navisworks window for an easy way to navigate to the exact location of interest. Within a TruSpace, users can measure and instantly create limit boxes with a single mouse click; a fast and unparalled method of minimising the cloud display to a specifc region of interest.

JetStream

Optionally connected to JetStream, CloudWorx for Navisworks delivers the industries best rendering speed to visualise all-the-points, all-the-time with no loading time, regenerations or the patchy rendering provided by lesser systems which makes your data hard to recognise and even harder to work with.

The CloudWorx family

CloudWorx for Navisworks is only one of the many CloudWorx family members. CloudWorx users easily switch between platforms with no learning curve. Organisations using AutoCAD, MicroStation, PDMS, or Autodesk Revit can access unique CloudWorx plug-ins to take advantage of this common productivity platform. For users whose workflows span many of these CAD systems, CloudWorx Ultimate provides access within all your CAD systems with a single, simple license.

Detailed information for retrofit projects

CloudWorx can be used in retrofit design and new construction to check for potential design conflicts against as-built conditions or conformity to design using the uniquely powerful custom point cloud to 3D design model clash/ anti-clash checking. The unparalleled detail provided by point clouds allows users to see and truly understand the real world conditions, compared to design intent.

LEICA CLOUDWORX FOR NAVISWORKS SPECIFICATIONS*		HARDWARE & SYSTEM REQUIREMENTS
Large point	3D limit boxes, slices, interactive visualisation of massive data sets	Minimum specifications
cloud	Connects to Cyclone or JetStream Database Technology for fast	Processor: 2 GHz Dual Core processor or better
management	efficient point cloud management	RAM: 4 GB
Rendering	Level of Detail (LOD) graphics, "Single pick" point cloud density	Hard disk: 40 GB
	control.	Display: SVGA or OpenGL accelerated graphics card (with latest drivers)
Visualisation	Intensity mapping, true colour TruSpace panoramic viewer:	Supported operating systems: Windows 7 (32 or 64 bit), Windows 8 & 8.1 (64 bit),
	- Select view point from key plan	Windows 10 (64 bit)
	- Drive Navisworks viewpoint from TruSpace	File system: NTFS
	Quick limit box in Navisworks from single pick in TruSpace	Supported Navisworks versions: Navisworks Manage and Simulate 2015-2017.
	Include background image Limit boxes, slices, cut planes	
		Recommended specifications
Measurement	3D point coordinate, point-to-point, point-to-design entity.	Processor: 3.0 GHz Quad Core w/ Hyper-threading or higher
Clash /	Check design models for potential	RAM: 32 GB's or more 64 bit OS
Anti-clash	interferences with point clouds. Advanced clash / anti-clash	Large project disk option: RAID 5, 6, or 10 w/ SATA or SAS drives
checking	management database system.	Display: Nvidia GeForce 680 or ATI 7850 or better, with 2 GB's memory or more
	Export clash manager results for easy reporting and/or analysis.	Operating system: Microsoft Windows 7 – 64bit
CloudWorx	CloudWorx for Navisworks is compatible with the CloudWorx	File system: NTFS
Ultimate	Ultimate License.	Please note: Optimal system specifications will depend on the number of users connected
Compatibility		to the JetStream ProjectVault at the same time.

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^{*} Reference the Leica Cyclone & CloudWorx Technical Specifications document for a complete listing of product specifications