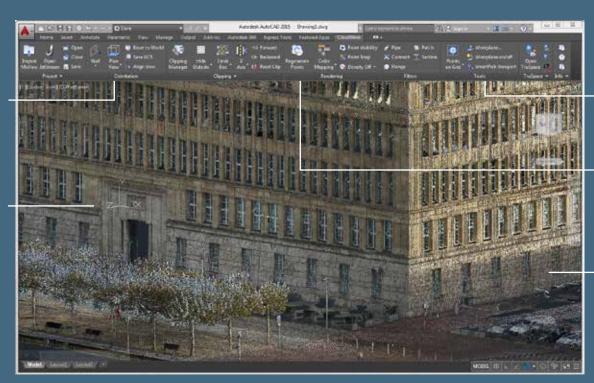


Leica CloudWorx 6.0 for AutoCAD

Point cloud plug-in software

All new toolses for UCS orientation support.

Automatically orientate UCS to walls and floors.



Automated point cloud snapping tools similar to OSNAPS. (highest,

Integrated ribbon interface provides access to all commands in familiar AutoCAD\

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

Efficient management, viewing and processing of as-built laser scan data for architectural, plant, civil and other 2D & 3D projects

Leica CloudWorx 6.0 for AutoCAD is the most efficient and popular plug-in software for using as-built point cloud data – captured by laser scanners – directly within AutoCAD.

Users take advantage of the familiar AutoCAD interface and tools to shorten the learning curve for working with laser scan data. Leica CloudWorx and the powerful Leica Cyclone and new JetStream point cloud engines let users efficiently visualise and process large point cloud data sets. Users can create accurate 2D and 3D as-builts, check proposed designs against existing conditions, perform critical construction & fabrication QA, and more... all directly within AutoCAD.

In the past, users often struggled with point cloud manipulation when using AutoCAD point cloud plug-ins. CloudWorx 6.0 overcomes this with its powerful TruSpace viewing window. This intuitive, panoramic viewing window lets users "see" better what the point cloud represents, and acts like a super-control to drive point clouds visualisation in AutoCAD with unprecedented speed.

Features and Benefits

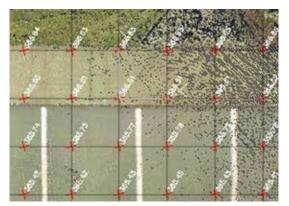
- Slices quickly trace or auto-fit 2D lines, polylines, arcs
- Auto pipe fit intelligent, as-builts in AutoPLANT, CADWorx, more
- Accurate tie-ins & clash checks
- Optional Cyclone or JetStream data sources for ultra-high speed point cloud rendering
- Automatic orientation of UCS to point clouds
- User specified points on a grid with SmartPicks
- English, German, Japanese and other languages available



Leica CloudWorx 6.0 for AutoCAD



One common usage of point cloud data in CloudWorx is to trace over the point clouds to create dimensionally correct 2D or 3D wire frames for building elevations, model extrusions, etc. Several CloudWorx commands make this easy.



Points on a grid and intelligent SmartPick snaps provide a highly productive automated surveying tool used to create COGO points most typically used for generate a ground surface\TIN.

Point Cloud Display Control

To focus on particular areas of interest, easy-to-use tools define specific areas of 3D point clouds to display. For improved visualisation, segments of point clouds can be selectively hidden using fences and user-defined cutplanes, slices or 3D limit boxes.

Accurate Building Documentation

Slices through point cloud data facilitate the creation of planimetric and elevation drawings. 2D lines, polylines, and arcs can be best-fit to provide accurate results. Cross sections of point clouds can also be plotted directly, introducing an entirely new, accurate deliverable and reducing project cycle time.

As-built Piping Models

Pipe fitting tools enable users to quickly create accurate, intelligent as-built piping models, best-fit to the point clouds, in conjunction with tools in Bentley AutoPLANT, COADE CADWorx, etc.

Detailed Information for Retrofit Projects

Engineers can use CloudWorx in retrofit design projects to check for potential interferences with point clouds that represent actual as-built or as-is conditions. The unparalleled detail provided by point clouds allows engineers to create 2D or 3D designs based on accurate, comprehensive information, providing time and cost savings throughout a project's various construction phases.

Civil Engineering Applications

Leica CloudWorx integrates with applications like Autodesk Land Desktop and Civil 3D to deliver solutions for civil engineering projects – such as transportation infrastructure, land development, bridge models and more. Users can extract 3D coordinates to represent site features that are easily identifiable in detailed point clouds. Original ground points can be extracted for topographic modelling.

Available in Multiple Versions and Languages

Leica CloudWorx for AutoCAD is available in Basic and Pro versions in English, German and Japanese. See the Leica CloudWorx Technical Specifications document for a complete listing of product specifications.

Leica CloudWorx 6.0 for AutoCAD* Large point 3D limit boxes, slices, interactive visualisation of massive cloud mgt data sets Minimum Specifications Recommended Sp. Processor: 2 GHz Dual Core processor: 3.0 GHz Core processor or better Hyper-threading or his	
cloud mgt data sets processor or better Hyper-threading or his	uad Core w/
	gher
Connects to Cyclone or JetStream Database Technology for RAM: 2 GB (4 GB for Windows Vista RAM: 32 GB's or more	e 64 bit OS
fast efficient point cloud management or Windows 7) Hard disk: 500 GB SS	D Drive
Rendering Level of Detail (LOD) graphics, "Single pick" point cloud Hard disk: 40 GB Large project disk o	ption: RAID 5,
density control Display: SVGA or OpenGL 6, or 10 w/ SATA or S.	AS drives
Visualisation Intensity mapping, true colour accelerated graphics card Display: Nvidia GeFor	ce 680 or ATI
TruSpace panoramic viewer (with latest drivers) 7850 or better, with 2	2 GB's memory
- Select view point from key plan Supported operating systems: or more	
- Drive CAD viewpoint from TruSpace Windows 7 (32 or 64), or Windows Operating system: N	Nicrosoft
- Quick limit box in CAD from single pick in TruSpace 8 & 8.1 (64bit only) Windows 7 - 64bit	
- Send point picks from TruSpace to CAD commands File system: NTFS File system: NTFS	
- Include background image	
Limit boxes, slices, cut planes	
Measurement 3D point coordinate, point-to-point, point-to-design entity	
Modelling Pipe Modelling: Least-squares fitting, Fit points inside fence,	
Grow from pick, Grow a piping run from	
picks, Connection of piping run	
Planar surface (patch) modelling: Best-fit 2D lines, polylines,	
arcs, Flange Tie-Point location tool	
Interference Check designs for potential interferences with point clouds, * Reference the Leica Cyclone Technical Specifications document for a complete	listing
checking Advanced clash management database system of product specifications.	liaulig

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