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 visualization 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

**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.
Leica CloudWorx 6.0 for AutoCAD

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 visualization, 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 modeling.

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 5.0 Technical Specifications document for a complete listing of product specifications.

Leica CloudWorx 6.0 for AutoCAD*

<table>
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<tr>
<th>Large point cloud mgt</th>
<th>Rendering</th>
<th>Visualization</th>
<th>Measurement</th>
<th>Modeling</th>
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<tr>
<td>3D limit boxes, slices, interactive visualization of massive data sets</td>
<td>Level of Detail (LOD) graphics, “Single pick” point cloud density control</td>
<td>Intensity mapping, true color</td>
<td>3D point coordinate, point-to-point, point-to-design entity</td>
<td>Pipe Modelling</td>
<td>Check designs for potential interferences with point clouds, Advanced clash management database system</td>
</tr>
<tr>
<td>Connects to Cyclone or JetStream, Database Technology for fast efficient point cloud management</td>
<td>TruSpace panoramic viewer</td>
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<td>Least-squares fitting, Fit points inside fence, Grow from pick, Grow a piping run from picks, Connection of piping run, Planar surface (patch) modeling, Best-fit 2D lines, polylines, arcs, Flange Tie-Point Location tool</td>
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<tr>
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<td>Limit boxes, slices, cut planes</td>
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</tbody>
</table>

Minimum Specifications
- Processor: 2 GHz Dual Core processor or better
- RAM: 2 GB (4 GB for Windows Vista or Windows 7)
- Hard disk: 40 GB
- Display: SVGA or OpenGL accelerated graphics card (with latest drivers)
- Supported operating systems: Windows 7 (32 or 64), or Windows 8 & 8.1 (64bit only)
- File system: NTFS

Recommended Specifications
- Processor: 3.0 GHz Quad Core w/ Hyper-threading or higher
- RAM: 32 GB’s or more 64 bit OS
- Hard disk: 500 GB SSD Drive
- Large project disk option: RAID 5, 6, or 10 w/ SATA or SAS drives
- Display: Nvidia GeForce 680 or ATI 7850 or better, with 2 GB’s memory or more
- Operating system: Microsoft Windows 7 – 64bit
- File system: NTFS

* Reference the Leica Cyclone Technical Specifications document for a complete listing of product specifications.

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