

MicroSurvey Point Cloud CAD2010 支援的點雲檔案格式

Supported Point Cloud File Formats

Solution

.PCI (Leica PCI Indexed Point Format)

This is the same filetype used natively by Leica Cyclone. PCI files can be read directly into PointCloud CAD. A PCI Conversion Utility is also installed with PointCloud CAD which can be used to convert various other formats to PCI for improved performance.

.PCG (Leica PCG Point Cloud Group)

A .PCG file can contain references to multiple PCI files. Please see the PointCloud CAD help file for instructions on how to create a PCG file. The actual point data is still stored in the linked .PCI files.

.LAS (LiDAR Data in LAS Format)

.LAS v1.0

An LAS file can be read directly into PointCloud CAD, but for improved performance it is recommended that it be converted to a .PCI file using the PCI Conversion Utility which is installed with PointCloud CAD, and the resulting .PCI file be read into PointCloud CAD.

.LAS v1.1/v1.2

PointCloud CAD and the PCI Conversion Utility can read .LAS v1.0 files but not the newer LAS v1.1/v1.2/v1.3 files. We are currently working on an update which will support the LAS v1.1/v1.2 formats, this is coming soon. In the meantime you can visit www.liblas.org and download a free utility called las2txt.exe which you can use to convert an .LAS v1.1/v1.2 file to an .XYZ file which can then be converted to a .PCI file using the PCI Conversion Utility which is installed with PointCloud CAD.

.LAS v1.3

The latest LAS v1.3 format is very new and currently cannot be read into PointCloud CAD, the PCI Conversion Utility, nor the las2txt.exe application described above. For more information on the LAS formats please visit the [ASPRS Standards Committee website](http://www.asprs.org).

.XYZ (ASCII Coordinates)

An ascii file containing comma separated x,y,z values (no point ids or descriptions) can be converted to a .PCI file using the PCI Conversion Utility which is installed with PointCloud CAD, and the resulting .PCI file can be read into PointCloud CAD. An .XYZ file cannot be read directly into PointCloud CAD, it must be converted to PCI.

.PTS (Leica PTS ASCII Unordered Interchange Format)

A .PTS file can be read directly into PointCloud CAD, but for improved performance it is recommended that it be converted to a .PCI file using the PCI Conversion Utility which is installed with PointCloud CAD, and the resulting .PCI file be read into PointCloud CAD.

.PCIX (Leica PCI Augmented with Extension Fields)

.PCIT (Leica PCI Extension)

.PCS (Leica PCS FastScan™ Format)

.PCSX (Leica PCS Augmented with Extension Fields)

.PCST (Leica PCS Extension)

The above Leica formats can be read directly into PointCloud CAD, but any custom extensions are ignored.

.ZFS (Zoeller and Fruehlich ZFS Uncompressed Scan Data)

The .ZFS format can be read directly into PointCloud CAD.

Other Formats

Currently PointCloud CAD does not support any other formats besides those listed above. However, if your scanner or lidar system works with some other file type by default, it should also be able to export data into at least one of the previous formats, particularly .LAS or .XYZ which are generic, non-proprietary data formats.