



Point Cloud Data Plug-in

The FORUM8 Point Cloud data plug-in enables Lidar and long distance terrestrial laser scanned data to be directly imported into VR-Design Studio enabling users to build interactive 3D models of the target structures quickly and with the highest possible degree of precision and accuracy.

Point Cloud data is imported in XYZ format along with the RGB data. See this [Movie](#)

Point Cloud PPE (Photo Processing Extension)

This is a plug-in extension developed to provide users with the facility to texture point cloud data within VR-Design Studio with ortho-photos automatically. See the overview document [here](#)

As well as the import of point cloud data, Point Cloud Data Plug-in option has many more features. This option enables you to import point cloud data obtained using surveying tools, such as laser scanners, into a VR-Design Studio 3D environment and display the imported data at a specified position. To convert the terrain data, TIN data is generated from the laser-scanned point cloud data and then terrain patch function can be used to model the terrain.

Repositioning of the point cloud data is possible by moving the point clouds sideways or rotating them. For exporting data, you can export point cloud data as a Land XML file, so that the generated data can be used by other systems.



▲Screen shot of imported point cloud data



▲Screen shot of the finished textured model

The use of Point Cloud data in the above example enabled the VR-Design Studio user to quickly produce a highly accurate structural model of the target highway including the precise road alignment and section definition. Once produced the interactive nature of VR-Design Studio means that traffic can immediately be generated on the roads to facilitate more meaningful presentations and discussions with all stakeholders leading to a more positive consensus building process.

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