This area requires a 3D PDF enabled viewer such as Adobe Reader.

Tesla Inc.

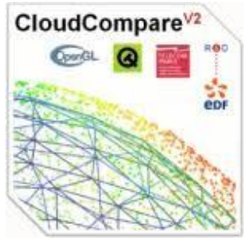
Tesla is an electric car design and manufacturer founded by the entrepreneur Elon Musk. Based in Palo Alto California, Tesla has evolved from a high performance sports car to a general-purpose mass-produced manufacturer in less than 10 years. Tesla also invest in battery technology and a high degree of on-board tech including many self-drive features.

Tesla is named after the famous Serbian electrical engineer and physicist, Nikola Tesla.

DotProduct Tesla Car Body Scan

The Tesla model was scanned using the **DotProduct** DPI-8X handheld 3D scanner. The scanner acquired a 3D point cloud with range and color information, stitching together a continuous sweep by hand motion over Tesla car body.

The point cloud was then processed by with CloudCompare, using experimental research methods to reconstruct a geometric surface model for this example.



CloudCompare is an open-source 3D point cloud (and triangular mesh) processing software application. It is designed to perform comparison between two dense 3D points clouds (such as the ones acquired with a laser scanner) or between a point cloud and a triangular mesh. Technically, it employs an "octree" hierarchical binary subdivision structure dedicated to this task. CloudCompare enables experiments, research and exploration into new algorithms, methods and work-flows, providing a bridge between academic research and commercial production point cloud meshing systems.

Once exported to PLY model file type, the **PDF3D ReportGen** from Visual Technology Services transforms the model into a 3D dynamic view inside of a PDF document. The 85Mb PLY file is converted to a much smaller 7Mb PDF. Using the Adobe Reader or similar 3D PDF enabled viewer mouse pan, zoom is available in a special illustration view-port inside the MS-Word designed document page.

Left mouse button moves around, while right mouse (or Shift-Mouse on Mac) zooms. For more information see:

DotProduct https://www.dotproduct3d.com
CloudCompare http://www.cloudcompare.org
PDF3D https://www.pdf3d.com