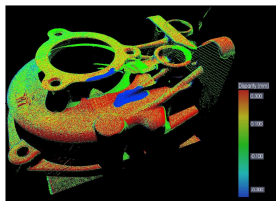


## Standard 3D processing library for point cloud coordinates.

AQSENSE, software manufacturer and 3D solution provider, presents the latest version of its 3D Shape Analysis Library SAL3D at AUTOMATICA 2010.

SAL3D constitutes the first standard commercially available modular software library for 3D machine vision applications, being completely hardware independent. The library tools work on point cloud coordinates, which are real floating point scalars characterizing the three axis X, Y and Z. The standardization of this framework allows the integration of all available digitizing technologies and configurations like laser triangulation with single or multi camera set-ups, stereo vision, Time of Flight devices, and other sources of organized sets of points with a CoP (Cloud of Points) processing software. The result is an extremely accurate and precise 3D digital model. Ease of use and very high processing speed have been key factors for the development and success of this library. As an example, two CoPs of one million points each can be aligned and compared in less than 400 milliseconds with just two operations. Given this speed, a 100% inline optical inspection in real 3D is now possible at typical production cycle times.



**Figure 1: Deviations can be measured in metric units. A colour scale can be added for ease of use.**

**About AQSENSE**

AQSENSE develops 3D software libraries and FPGA IP blocks for 3D cameras. AQSENSE's customized applications and engineering solutions are supported with training and seminars. Feasibility studies for 3D integration include the evaluation of cameras, lasers and hardware configuration.

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