

# Software for 3D measurement systems

## 3-DIM CAD PORT

3-DIM CAD Port is a plug-in for Rhino, which allows the user to import and export 3D point clouds and lines from CAD models in 3D measurement systems. CAD models of objects (ships, wind turbines, ...) are frequently very complex, confusing, and come in an unfamiliar file format. During production or quality management on site, usually only a certain number of predefined measurement points is required.

With the use of the Rhino CAD software and the programmed plug-in CAD PORT, the GLM software department provides an exemplary solution. Why? Because Rhino is a simple 3D CAD program easily learned that is also intuitive to use. It can read all major CAD formats as well. The user (designer, quality manager, engineer, ...) in the office marks in the CAD model the object points (reference points) to be checked. He or she then sends this 3D point cloud with target coordinates to the 3D measurement program (3-DIM PC Basic, 3-DIM Observer, ...). The user on site (construction, manufacturing facility, ...) does not have to wade through complex CAD data, but immediately receives the target data from the reference points. After measuring the object, the user receives the difference between target and actual data. Grave errors are thus detected and eliminated on the spot.

If needed, the data can now be exported back to the original CAD file and the object can be adapted to the measured data.

Do you have further questions? Simply call (+49-2302-20399-50) or send us an e-mail ([ingenieurvermessung@glm-laser.de](mailto:ingenieurvermessung@glm-laser.de)).

