



image STATIC 3D

3D MEASUREMENT SYSTEM

Static 3D is a powerful software tool capable of generating 3D models and measurement data from static objects and environments - using still photography and without the need for markers.

Points of interest can be manually selected in the images, or automatically identified using optional markers. The manual selection method allows the operator to retroactively derive measurement data, even if markers were not placed in the images to begin with.

COMPLETE SOLUTION

- Static 3D Software – (USB Dongle License)
- User Manual
- Calibrated DSLR camera and lens
- Calibrated Scale Ruler (optional accessory)
- Markers (optional accessory)
- Rugged Carrying Case

ADVANTAGES

- Precise (<0,03 mm with the right preparations)
- Portable and intuitive to use
- Measurements can be made retroactively
- The 3D measurements can be exported to:
 - DDXF (*.dxf file)
 - ASCII (*.trg file)
 - Microsoft Excel
 - CSV-files
 - TEMA Motion Analysis Software
 - CAD Software export

SETUP & OPERATION

1. The operator captures three images of a target object or environment to be measured
 - **Setup requirements**
 - At least four common points, recommended eight, should be visible by each camera pair.
 - The points can be shapes / contours of the object or markers
 - One known physical distance (acting as scale) between two measurement points
2. After loading the images into Static 3D, the software wizard generates the 3D (X,Y,Z) data of markers and / or manually selected points
3. The 3D data can then be visualized in a data table (X,Y and Z) as well as in a 3D diagram as well as exported for further analysis

AUTOMOTIVE APPLICATIONS

- Deformation / crush / measurements
- Repeatability checks of components
- Component tolerance and alignment checks
- Transportation checks after delivery
- Production line planning and inspection
- Accident scene measurement and reconstruction
- Shape and object fit verification to CAD-drawings
- Robot c production equipment adjustment
- FARO measurement verification
- Ability to stitch multiple camera views into a composite 3D model for TEMA Motion Analysis tests

3D diagram

Images from camera positions

Zoom windows for selected points

Point tables

