

New AutoGrid® comsmart software with convincing advantages

We proudly announce the **significant improvement of our** strain analysis system AutoGrid® comsmart.

The **Improved Image Recording**, as part of the new comsmart software package, allows a significant improvement of the recorded image sets. Using the **AutoGrid® comsmart system** with this new software provides you numerous advantages.

Previous Software

The settings for all 4 cameras are based on the setting of camera 1 (top left).

- To determine optimal camera parameters in image of camera 1, the entire image area (including the corners and image edges) is used.

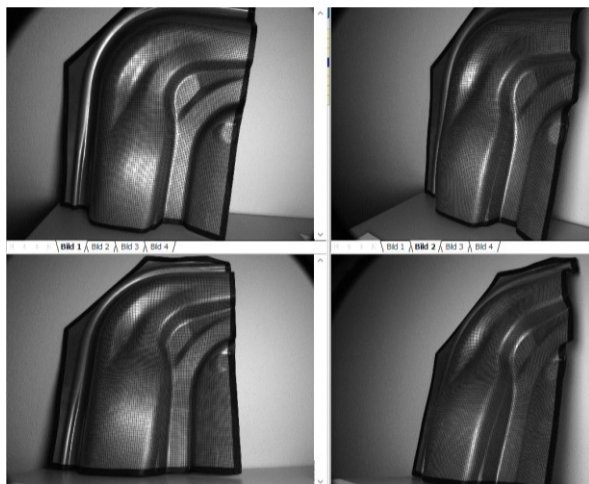


Fig. 1: Image set recorded with previous software version

Result:

Only the image from **camera 1** has good contrast and brightness. The images from the other cameras could be too bright or (as in the sample above) too dark.

New with Improved Image Recording

- For each camera optimized image acquisition parameters are determined individually.
- Determination of optimal camera parameters only in the central area of the camera images, the outer image areas are not taken into account.

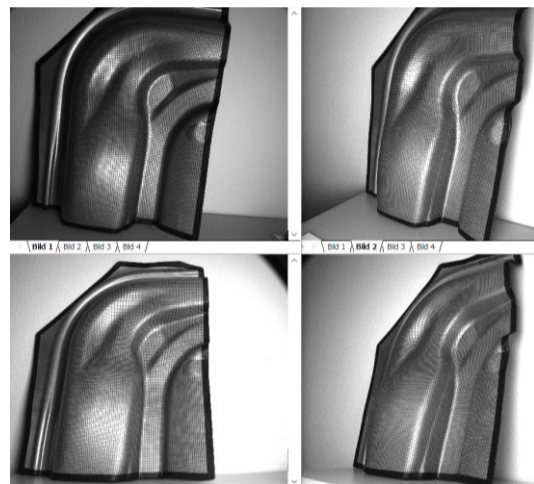


Fig. 2: Image set recorded with new comsmart software

Result:

The images from **all 4 cameras** are optimally illuminated to the same extent in the central area where measurements are taken.

3d Measurement:

Previous Software

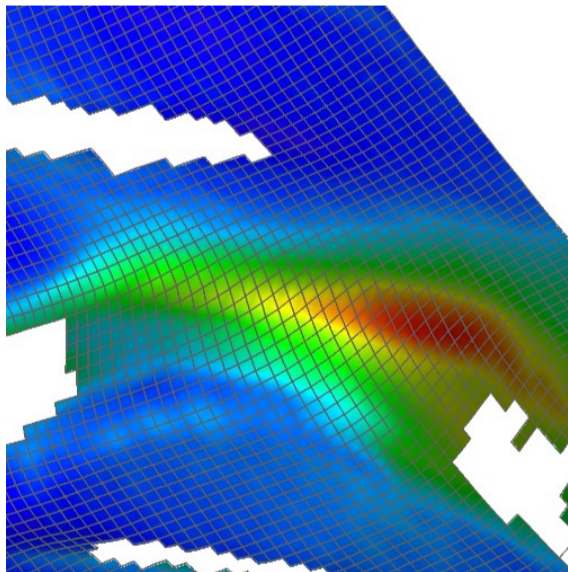


Fig. 3: Measured points in the given sample with previous software version

New comsmart software

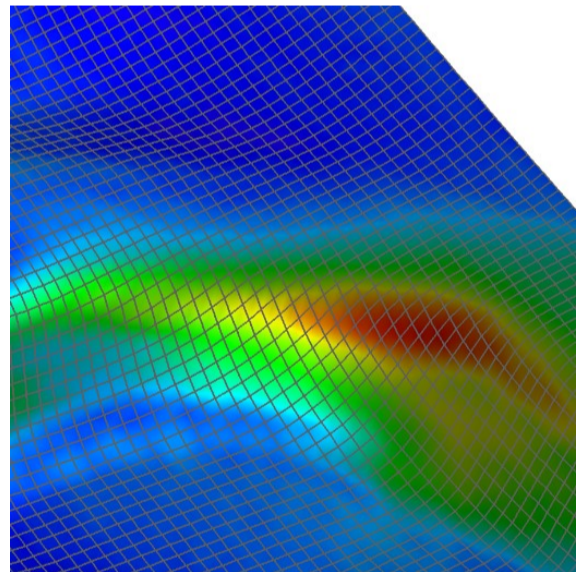


Fig. 4: Measured points in the given sample with new comsmart software

Advantages of Improved Image Recording:

- Significant **less measurement gaps** (white areas in Fig. 3) occur.
- In this example, approx. **10% more measuring points** are found (see Fig. 4).
- The **quality and stability of the measurement** of grid points improves significantly (lower uncertainty of measurement).
- In the case that measurement objects with demanding geometry need to be analyzed, the **number of necessary measurement recordings is reduced**.
- The **point measurement works faster** for challenging geometries.
- The **automatic starting point search works better**.
- The system **operating effort is reduced**.
- There is a clear **relief for the operator**, because now all 4 images of the image group have equally good brightness and contrast values.
- The **familiar and proven operation** of the system does not change.

If you have any questions, our AutoGrid® support team is always at your disposal.

Contact us: >> autogrid@vialux.de