We release our new version of Z+F LaserControl®. Enjoy new functions and tools!

**Dynamic Compensator**
The dynamic compensator (Z+F IMAGER® 5010/5010C, firmware 8.7 and higher) protocols the leveling and detects eventual tilt variations of the laser scanner while scanning to enable LaserControl® to compensate the individual points. The compensation is applied when exporting and when transferring the scans to the 3D work space.

Critical compensation filter: In conjunction with the dynamic compensator, LaserControl® provides a filter which masks out all those scan lines which could not be compensated due to excessive or too abrupt movement.

**New Accessory: the Z+F SmartLight**
LaserControl® 8.6 was optimized for this dedicated external light source for the Z+F IMAGER® 5010C computing better HDR-image results.

**New Export Dialog**
The new export dialog merges the previous batch export and the single file export dialog. Instead of processing entire directories, the new tool allows to make individual export selections, e.g. just export the scans which are part of a project. Further, the ASCII export has extended flexibility and allows individual content definition.

**New Accessory: the Z+F T-Cam**
Thermal imagery from the Z+F T-Cam can be read and processed by LaserControl®. New tools allow you to create a 360° panorama image of the raw data and assign these temperature values to every geometrical coordinate in your point cloud.

LaserControl® Elements allows every user to also examine thermal data and to change the color ramps.

---

© 2015 Copyright Zoller + Fröhlich GmbH · Z+F UK Hardware Ltd. · Z+F USA, Inc. · Z+F Italy Srl
Reproduction and copies only with written permission from the copyright holders. All rights reserved. Errors and changes reserved.
New: Automatically detected targets with arbitrary assigned point numbers are used to generate point identities based on their geometry in each scan. As a result, a manual intervention during the registration process (digitizing points) is not necessarily required.

**Block Adjustment (Points)**
Optimization: The iteration process is noticeably accelerated by a 2D preliminary analysis. In the 2D preliminary analysis also gross errors are automatically detected and eliminated.

**Vertical Axis Observations**
New: The observation of the vertical axis of the scanner is taken from the project file and used in all relevant stages of calculation: The plane matching is significantly accelerated, the number of targets can be reduced (two identical points per scan-pair are sufficient) and the accuracy of the block adjustment is increased.

**Link Stations Manually**
Extension: Existing point identities between the two scans are displayed in the dialog and used for preliminary transformation, so that, for example, just one further plane pair has to be digitized in order to continue the matching process.