

## Z+F IMAGER® 5010X

### Indoor Navigation system and GPS

The Z+F IMAGER® 5010X comes with a unique navigation system which works outdoors and, as an industry-first, also indoors! It will estimate the current position and orientation of the scanner to support the registration algorithm to automatically find the correct solution. The scanner will also track your movements while carrying the device on to the next setup and hence provides position estimation for the registration process.



### Drastically improved WiFi speed and range

Working with the 802.11n-standard and dual antennas, the Z+F IMAGER® 5010X has an increased working range and allows you to communicate and stream scan data quickly to the Scout tablet.



### Range up to 187 meters (approx. 600 ft.)

Due to the wavelength and the approved ranging system, the devices operate within a maximum range of 187 m (approx. 600 ft.).

### High-speed up to 1 million pixel/second

With a maximum measurement rate of 1,016,027 pixel/sec some laser scanners of Zoller + Fröhlich are one of the fastest in the world.

### 320° x 360° field-of-view

The large 320°x 360° field-of-view yields maximum coverage.

### Laser class 1

Most laser scanners of Zoller + Fröhlich are classified "eye-safe" according to laser class 1 requirements.

### HDR i-Cam

The integrated camera works very well in all environments. One focus is to always provide realistic panoramas. To make the workflow as user friendly as possible, the Z+F i-Cam is fully integrated into the Z+F IMAGER® 5010X.

### Flexible

All Z+F laser scanners are 100% stand-alone and the operating temperature is between -10 °C and +45 °C (14°F and 113 °F).

### Upgrade your Scanner to X

Zoller + Fröhlich offers you to upgrade your Z+F IMAGER® 5010C to a Z+F IMAGER® 5010X.

Please contact us to get more information.



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How we build reality

English

The X marks the spot  
[www.zf-laser.com](http://www.zf-laser.com)

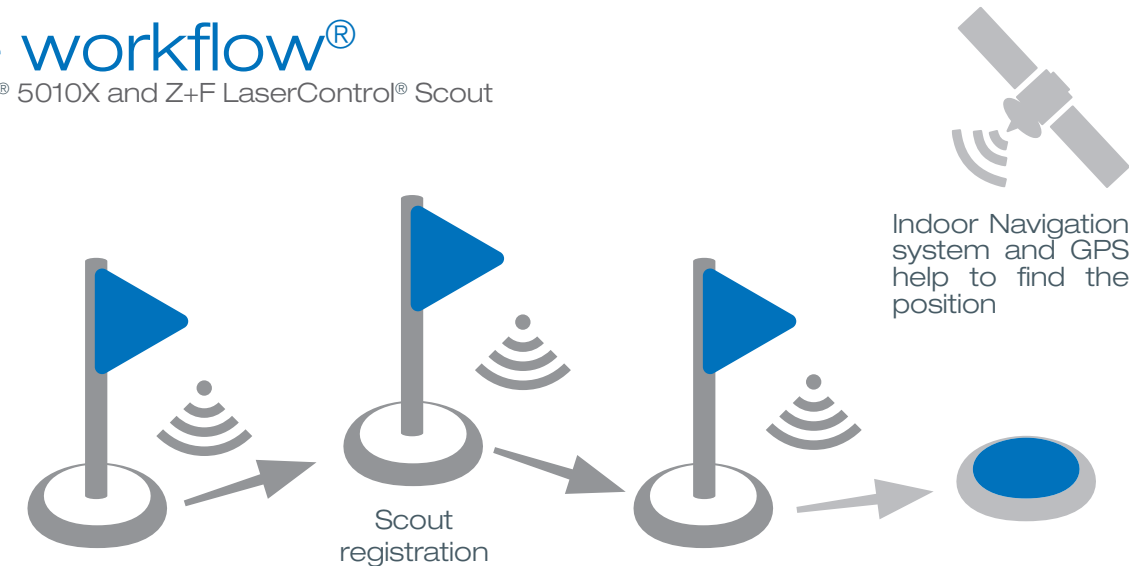






## The blue workflow®

with the Z+F IMAGER® 5010X and Z+F LaserControl® Scout



### On Site



All these steps are possible on site with the Blue Workflow:

- Automatic registration
- Check data quality
- Check target quality
- Find & fill gaps with more scans

Z+F LaserControl® Scout will automatically synchronize all scan data



### Have peace of mind

Return to the office with a complete dataset



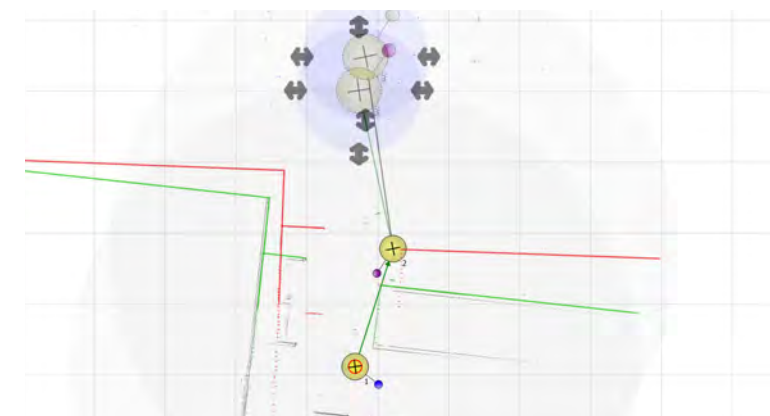
## Z+F LaserControl® Scout

### The X marks the spot

Together with the positioning sensors inside the Z+F IMAGER® 5010X, Z+F LaserControl® Scout is able to automatically place and register your scan data during your field work - on the fly.

### Automatic registration

Z+F LaserControl® Scout keeps a constant link to the scanner. After a scan is finished, the data is downloaded onto the tablet PC automatically. Once completed, the software immediately attempts a preliminary registration. If the automatic process is not possible, Z+F LaserControl® Scout provides easy tools for manual adjustments by simply dragging the scan into the approximate position. Scout further provides a new tool for complex geometries to manually align scans quickly in 3D.



Automatic registration - on the fly

### Registration Guard

One of the most common reasons for frustrations with cloud-to-cloud based registration algorithms is poor overlap between different scanning positions. Realizing such a problem in the office can be fatal to a project. Hence, Z+F LaserControl® Scout will assist you with early detection of these problems in the field already, in order to fill gaps immediately with additional scans.

### Brand new look and feel

The new Z+F LaserControl® Scout is well optimized and prepared for Windows® touch tablets. Its intuitive new user-interface is simple to use and has all major tools always at hand for you.

### Stay updated through advanced synchronization

Z+F LaserControl® Scout will automatically synchronize all scan data locally and, after registration, update all scans on the scanner accordingly. Therefore, at any time, the scanner and tablet display the same results.

### Remote Scanner Control

Free yourself of time pressure to hectically hide from the scanner. Control the instrument and check its status comfortably from a distance.



Remote control and synchronization

### Quick insights with detailed top view profiles

Z+F LaserControl® will create a detailed top-view, outlining the features in the scene for easy orientation and verification of the positioning.

### Multi-Scanner Feature

The blue workflow® is further enhanced by using multiple scanners in parallel, working on the same project. So far, users had to do one project per scanner, which they could register in the field, but merge the individual projects of all scanners back home in the office.

With the multi-scanner approach, all scan teams work on the same project file and the tablet is used to synchronise the projects between multiple scanners. There are two main workflows available: Single and Multi-Tablet Mode.

### Single Tablet Mode

Imagine there are two scanning teams and a project coordinator on site. Each team operates their own scanner. The project coordinator has a tablet and stays with team A for a while, downloads their scans, checks the registration and synchronises the results back to the scanner of team A.



Single-Tablet Mode

Then the coordinator joins team B and downloads their scans, which they collected in the meantime, and joins those scans with the data of team A, checks the registration and synchronises the results back to scanner B. Now, the registered scan positions of scanner A are also available on scanner B. Then the coordinator moves back to team A and downloads the newly collected scans of scanner A, then B again and so on, back and forth.

### Multi Tablet Mode

In another scenario, each team has their own tablet to do the registration while scanning. There is no dedicated coordinator present on site. Every now and then, e.g. during a lunch break or at the end of the working day, the operator of team A quickly connects to the scanner of team B, downloads their data and uploads his own registration to scanner B.



Multi-Tablet Mode