



How we build reality

Z+F PROFILER 9000

System description

The PROFILER 9000 is based on the IMAGER 5010 and is the fastest 2D profiling laser measurement system in the world.

With its scan rate of >1 million points per second and maximum scan speed of 200 profiles/sec., very short distances between profiles can be achieved even at high speeds. At the highest point density even the smallest objects can be registered and processed by the software.

Since the new laser measurement system is classified as a laser class 1 instrument, the scanner can be used in urban environments without restriction. A hardware-assisted pixel-by-pixel synchronization, already tried and tested in previous models, makes it possible to process external signals to determine the position of the scan data.

Using industrial connections, GPS, displacement sensors and counters can be attached. The external timing pulses are directly fed into the scan data stream. Synchronization with a pulse from the scanner can also be managed using one of the connections. The new 1 GBit Ethernet interface allows the scan data to be transmitted online to an external PC if a real-time evaluation or visualization of the data is required.



Technical data overview

Laser measurement system	Z+F PROFILER 9000
Methode	Phase-shift
Ambiguity interval	187.3 m
Laser class	1
Rotation speed	200 profiles/sec.
Angle resolution	0.0088° (40,960 pixel/360°)
Data acquisition rate	Max. 1.016 million pixel/sec.
Dimensions (w x d x h)	320 x 260 x 340 mm
Weight	13.5 kg
Power consumption at 200 Hz	150 W/24 V/6.3 A

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Z+F News INTERGEO 2011

New firmware Z+F IMAGER 5010

- Support of set up above known point:
The latest firmware of the IMAGER 5010 supports the set up above a known point. This feature allows the user to register scans very efficiently
- Data storage on both USB sticks
- Optimised device operation with new features
- M-Cam panorama recording
(only panorama without laser scan)



Z+F LaserControl 8.2



In the latest version of LaserControl new features and tools were implemented.

In detail:

- Set up above known point (registration)
- RegisterCloud - highly precise registration of pointclouds without targets
- Tool to reconstruct 3D points:
A proper colorization of previously difficult to capture objects can now be realised (e.g. glass facades or windows)
- Improved plane fitting, copy and move of planes
- Creation of ortho photos with defined scale (mm/pixel)



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