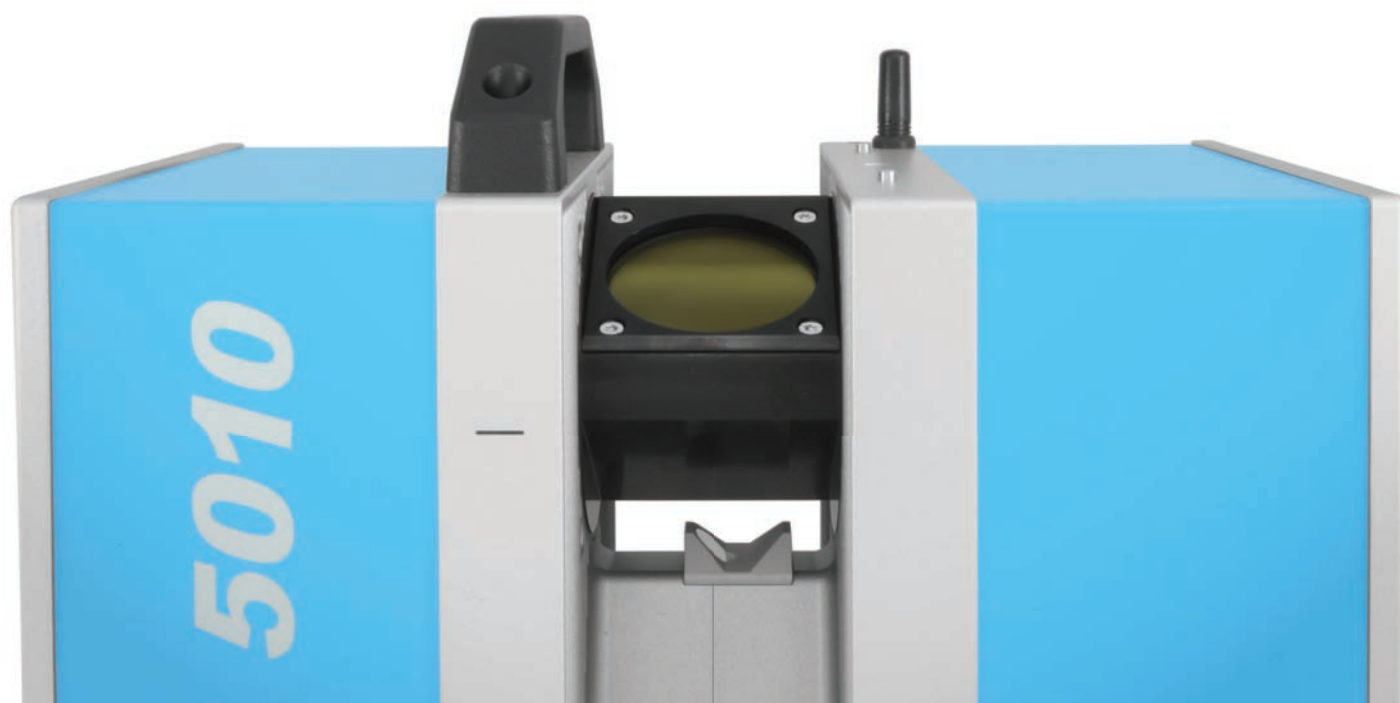




How we build reality

The precise way to scan
www.zf-laser.com



Z+F IMAGER® 5010

Highly precise, reliable and affordable

The Z+F IMAGER® 5010 is amongst the most precise scanners in the market. It combines accuracy, quickness, reliability and flexibility in an outstanding way. The Z+F IMAGER® 5010 is the ideal solution for cost-conscious customers who set value on highest quality.

Range up to 187 meters (614 ft.)

Due to the wavelength, the device can scan up to 187m. This range allows you to use the scanner for almost every terrestrial laser scanner application efficiently.

High-Speed 1 million pixels/sec.

With a maximum measurement rate of more than one million pixels/sec., the Z+F IMAGER® 5010C is amongst the fastest 3D laser scanners in the market.

Presetting Resolution/Quality

Four different levels of quality can be set. The quality of a scan is based on the resolution and the measurement rate. Depending on the application and objective, the optimal scan configuration can be chosen. Through this, small distances between points can be realized even when scanning long distances.

Extended field-of-view 320° x 360°

The extended field-of-view with 320° vertically and 360° horizontally covers a maximum scanning area.

Easy handling

The Z+F IMAGER® 5010C is a compact and light device with a size of 170 x 286 x 395 mm (W x D x H) and weighing 9.8 kg. The scanner is delivered in a robust case which increases handling convenience and protection against impacts and shocks.

100% Stand-Alone

The stand-alone concept guarantees independence and flexibility. The scan data can be stored on the internal hard disk or two integrated, removable USB sticks. The color display allows displaying scans, including zooming and basic measurement functions, as well as commenting with labels. Therefore a computer to control the scanned data is not necessary any more on-site.

Highest Data Quality

The Z+F IMAGER® 5010C stands out due to its high angular and distance accuracy. Highest data quality on different surfaces and for different distances is guaranteed by the low range noise. Even at highest data capturing rates the accuracies lie within millimeter-range.

Laser class 1

By using state-of-the-art laser sources, the Z+F IMAGER® 5010C conforms to the requirements of laser class 1 (according EN 60825-1). The laser is therefore classified as non-hazardous.

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Unique Features

Rotating mirror

The laser beam is deflected by a rotating mirror, which reaches a rotational frequency of up to 50 rps. The mirror is capped with a patented protective glass. This guarantees high quality, ruggedness and persistence. With a maximum rotation speed of 3,000 rpm and a maximum scan rate of more than 1 million pixels/sec, it is possible to generate high resolution scans in short time.



Dynamic Compensator

The dynamic compensator corrects the angle tilt of every point during the scanning process. The Z+F IMAGER® 5010 can be optionally upgraded with the dynamic compensator.

Wi-Fi

The Wi-Fi interface allows the scanner to be controlled and operated via a web browser or by the Z+F Scan App.



Large colour display

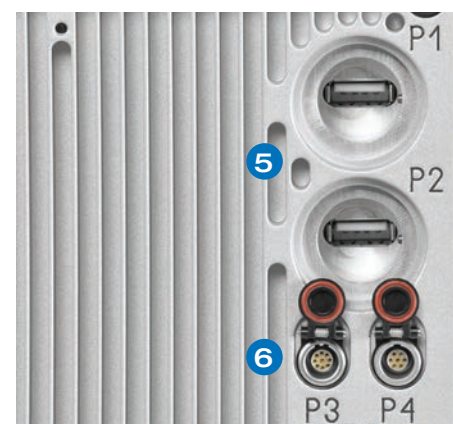
The 5,77" colour display with touch support provides great overview, even in difficult lighting conditions. Due to the high usability the scanner can be easily and quickly operated and further allows checking the completeness and accuracy of scans.

USB ports

The scanner has two USB ports for 32 GB flash drives which are integrated into sealed closure casings. External hard drives can also be connected to the USB ports.

Additional ports

These are used with the USB ports in order to control accessories, such as the Z+F SmartLight, Z+F T-Cam or a GPS module. The fixed socket of the scanner is equipped with LEMO-ports for power supply and data download.



Application Examples

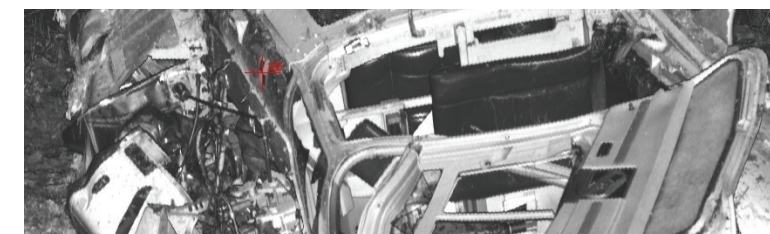
Industry

By using Z+F laser scanners in virtual factory and industrial plant planning, compromise solutions and resulting bottlenecks can be avoided. The down-times during the gathering of data are reduced to a minimum due to the fast, high-resolution and light-independent surveying.



Forensics

Within a few minutes, Z+F laser scanners provide accurate measurement data of crime scenes and accidents – indoors and outdoors. This data speeds up the investigation process by „freezing“ the scanned crime scene and documenting it. These evaluations are accepted in court.



Cultural Heritage

Heritage buildings are subject to construction works on a regular basis. Accurate plan sets for planning, modernization or reconstruction are lacking in a lot of cases. Due to the high sampling rate of more than one million points per second and a measurement accuracy of millimeters, even the most delicate structures and details can be documented with Z+F laser scanners.



Insurance

Insurance companies are often confronted with the problem, that the building to be insured is either not completely documented or the available data is out of date. 3D laser scanning is an efficient way to document the current condition of the building and all its details in order to determine claims and causes of damages.



Innovative Accessories

Z+F T-Cam

The infrared camera Z+F T-Cam is an external solution to document rooms and objects not only three-dimensionally but also thermally. The camera generates 360° thermal panoramas with a resolution of 382x288 pixels. The infrared information is automatically being mapped onto the point cloud. The infrared spectral range is from 7.5 – 13 µm. By using the Z+F T-Cam, many new opportunities arise in the fields of insurance, facility management, industry and forensics. The T-Cam is easy to mount and is connected to the scanner via USB.



The M-Cam

An industrial colour camera with a resolution of five megapixels, takes pictures which allows colouring of point clouds (360° x 320°). It can be easily mounted onto the scanner and is connected via two USB cables and the LEMO cable. The camera and power supply are controlled by the scanner. The pictures are automatically matched to the respective scan and saved. The camera calibration specifications are included in the bundle.



Our entire accessories are listed in our accessory brochure or on our homepage www.zf-laser.com (products > accessories), where you can find everything from high quality aluminum tripods to a useful battery charger and professional nodal point adapters for using reflex cameras.