

flexijet^{3D}

Innovation CAD-measurement



Mobile 3D laser measuring system

Precise site measurements with instant creation of CAD drawings.
Set construction points from CAD plans using laser rear projection directly on site.



reddot design award
winner 2018

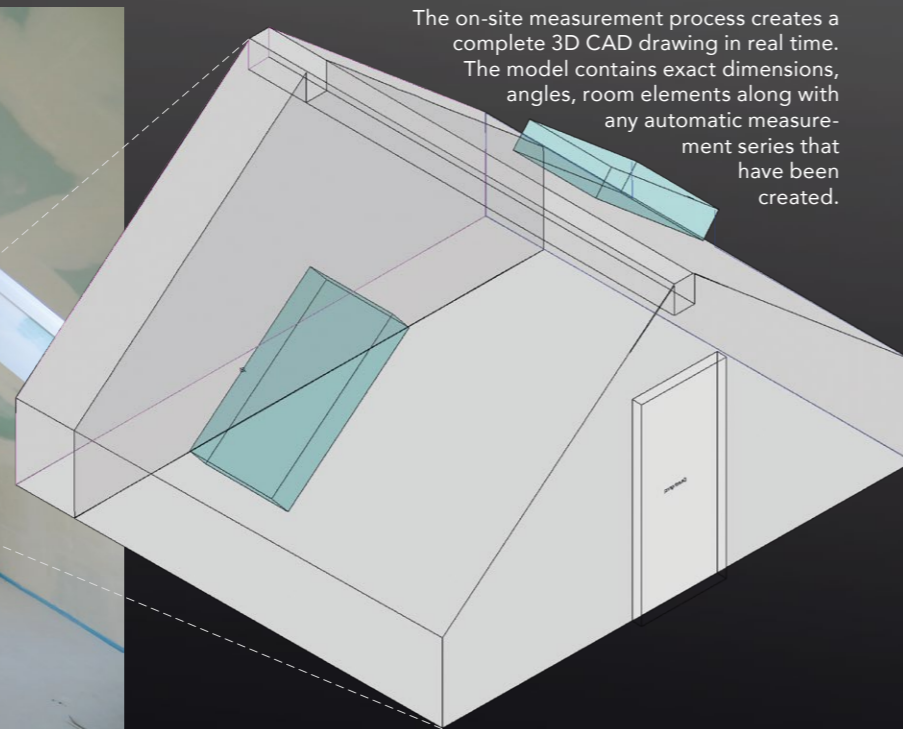
The next generation digital measuring tool

Measure and create CAD drawings in a single step at the construction site.

With a total redesign, the new Flexijet 3D is now recognised as the next generation in laser measuring systems.

Receiving the Red Dot Design Award for its advanced ergonomics, Flexijet 3D guarantees perfect handling with its winning hardware design.

The intuitive operation of CAD commands via the integrated touch display significantly increases the ease and efficiency of the measuring process.



The on-site measurement process creates a complete 3D CAD drawing in real time. The model contains exact dimensions, angles, room elements along with any automatic measurement series that have been created.



The Flexijet principle: "measure, draw & rear projection"

Whether you are a beginner, an all-rounder or a CAD specialist, with Flexijet 3D you benefit from the Flexijet principle. This offers a multitude of advantages over conventional measuring techniques or large and cumbersome point clouds created by laser scanners.

Inaccurate or missed measurements are a thing of the past. Manual recording of measurements, transposed numbers and other note taking are now obsolete. Instantly view what is measured on the construction site in a 'real time' 3D CAD model.






Easily measure hard to reach places without the need for ladders or scaffolding. Even furnished rooms are easily measured without the need to move furniture.

With Flexijet 3D, complex elements such as curves, arches and angular components can be recorded quickly and precisely with just one person. Site measurements can be further documented with photo and audio notes saved in the CAD drawing.

With its innovative rear projection function, Flexijet 3D is an invaluable on site installation aid. Using the laser, Flexijet 3D can project CAD points from a drawing onto the work site where they are displayed at the precise location.

The application possibilities of Flexijet 3D are as versatile as the users who use this revolutionary laser measuring system.

Advantages at a glance

-  Single person operation.
-  3D measurement of irregular shapes, geometries and complex spatial situations with millimeter accuracy.
-  Consistent and precise detection of all angles.
-  Easy operation without complicated alignment of the tripod.
-  Elimination of wrong or forgotten dimensions and transmission errors.
-  Immediate graphical check on site.
-  Image and voice recordings for complete documentation of measurements.
-  Unlimited measurement area by relocation via reference points.
-  Instant area and space calculations.
-  Production of templates is eliminated. Scribe and template shapes directly into CAD.
-  Simple export of measurement data to downstream CAD programs.
-  360° vertical and horizontal measurement without restriction, including vertically downwards.



flexijet 3D – the clever combination of precise measuring hardware with the flexiCAD measuring software

Points measured with the Flexijet 3D laser measuring device are transferred via a stable **WLAN connection** to the **FlexiCAD software** on your Windows tablet or laptop. A CAD drawing is instantly created in real time.

The laser of the Flexijet 3D can be controlled either manually or by remote control. The approach of individual points or the rear projection of drawn CAD data takes place via an **integrated motorised system**.

Measurements can be triggered via the **Touch Sensor** located on the device, with the remote control or on the tablet PC.

Internal **tilt sensors** allow for instant automatic levelling thus avoiding tedious manual alignment of the tripod. As a result, the measurement survey can begin within minutes and with little effort.

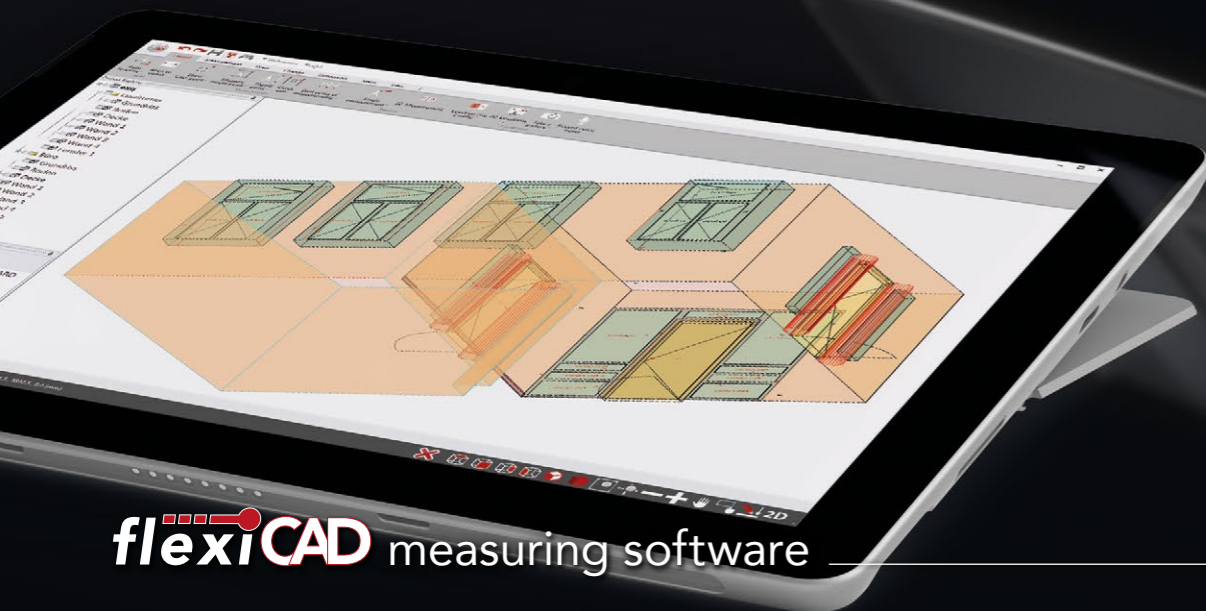
If the device is accidentally knocked, the integrated **shock sensor** will warn the user of the event and advise of corrective action.



Flexijet 3D can be re-aligned at any time using already measured points in an existing drawing, enabling seamless continuation of a measurement survey.

Relocation of the device from room to room or across various building levels is easily mastered with Flexijet 3D. The re-alignment of the device is accomplished using two reference points which allows for immediate continuation of the measurement process.

The average battery life of the Flexijet 3D is eight hours depending on the motor usage. The device can also be used while it is being charged, thereby allowing 'around the clock' measurements so that nothing stands in the way of that important measurement task.



flexiCAD measuring software

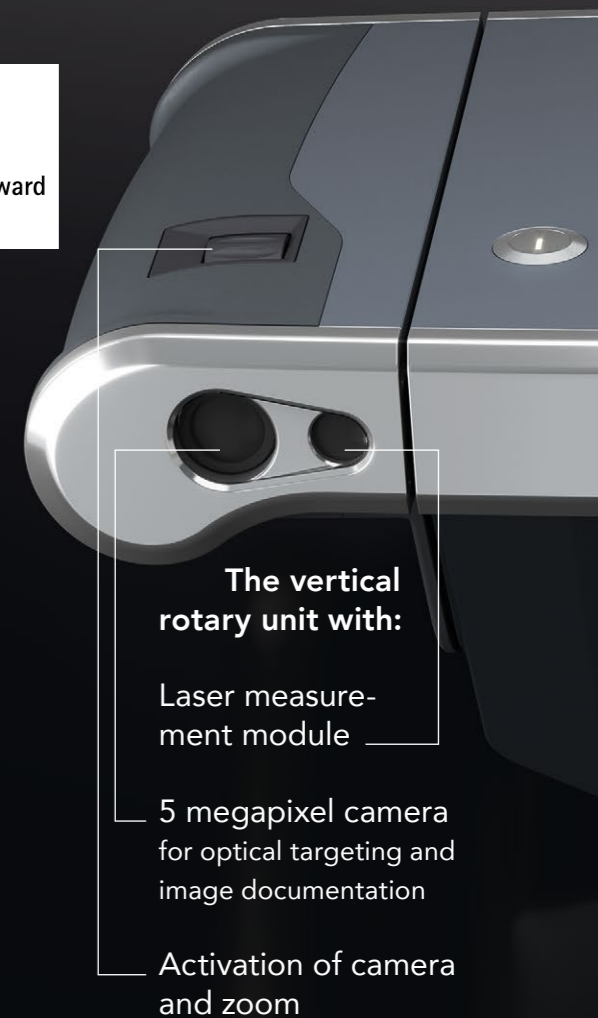
FlexiCAD software processes the measurement data captured on the construction site and instantly creates the CAD model. To accomplish this, FlexiCAD has a practical and logically structured user interface. Customised and optimised measurement

functions offer maximum efficiency and guarantees speedy measuring. All measurement points are related directly with a CAD drawing command, thus displaying the immediate outcome of each measurement in CAD and the progress of the overall site measure.

7 inch touch display

Allows for direct ergonomic operation of the measuring device: selecting the drawing commands, displaying a live camera image with crosshairs for optical targeting and displaying the measured CAD drawing.

This enables easy comparison of the drawing with the construction site to ensure that all relevant dimensions have been recorded before departure. Using a large number of integrated export formats, data can then be transferred to your CAD software of choice for final planning.



The vertical rotary unit with:

Laser measurement module

5 megapixel camera for optical targeting and image documentation

Activation of camera and zoom

flexiCAD software functions for precise measurement and comprehensive site documentation

Touch mode:

Ability to operate the FlexiCAD measurement software either by touch on a Windows tablet, or a laptop with mouse or touchpad.



Virtual remote control:

Choose between the supplied remote control, or simply operate the motorised Flexijet 3D by touch gestures from a Windows tablet.

Fast room measurement:

This feature allows the three-dimensional measurement of rooms without having to measure directly in the corners and using only a few measurement points. This means that even furnished rooms can be easily measured.



Add roof pitches, niches and other room elements such as windows, doors and power sockets with speed and precision. The result... a complete site measure in no time!

Installation symbols:

FlexiCAD offers a variety of installation symbols. For example, switches and water connections can be included directly as symbols into your CAD site survey.

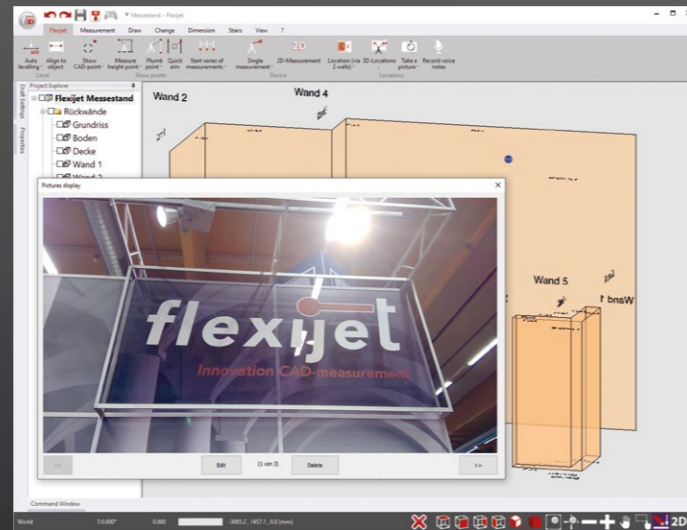
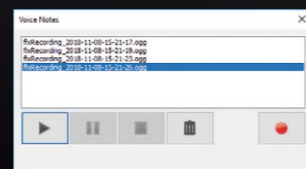


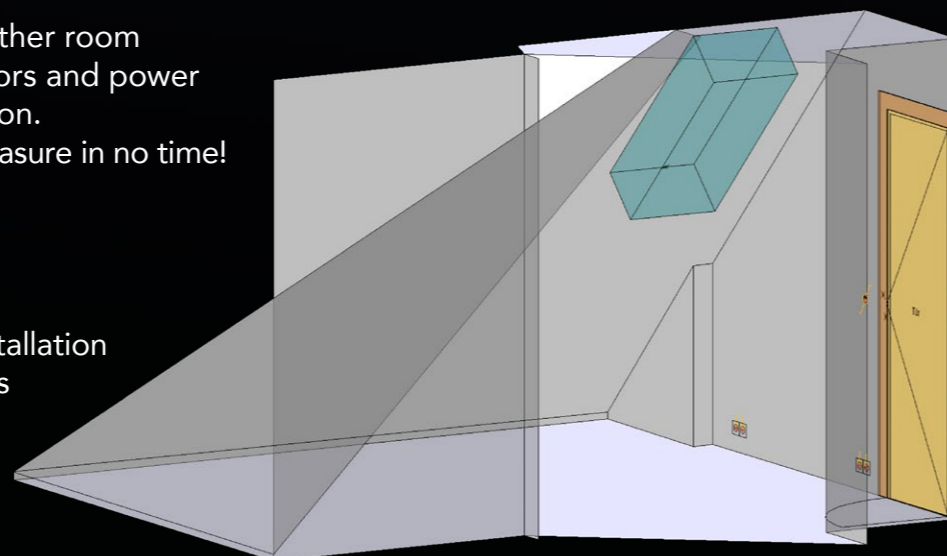
Photo documentation and voice notes:

With each measurement point, Flexijet 3D saves a photo taken by the integrated camera. This picture documents precisely the respective measuring point. In addition, images taken with the external camera of a tablet PC or laptop, can also be used as a photo point for a more complete documentation of the site survey (see above).



FlexiCAD also features the ability to record voice memos.

Pictures, voice notes and precise CAD measurement data are thus collected in one place. This provides a comprehensive and complete documentation of the site survey.



Rear projection of CAD points:

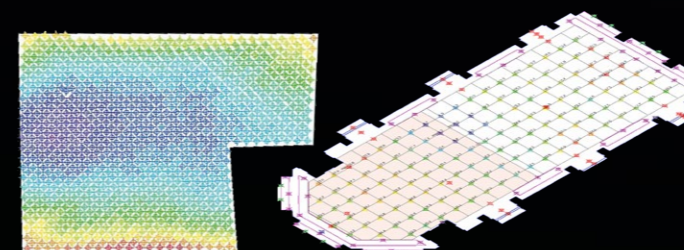
Take advantage of the Flexijet's integrated motor to aid in on site installation. Some examples are, transfer a surveyor's mark from one room to the next, or project a plumb line on the floor or ceiling. Points from a CAD drawing can also be projected onto site. These could be location points for walls or partitions, drilling or mounting points on ceilings, floors or walls.

Automatic measurement series:

Horizontal, vertical or free polylines are automatically measured by Flexijet 3D. This makes it easy to record wall contours, milling contours of worktops or even the curves of a boat hull.

3D surface scan:

Draw or measure any closed contour and create a hatched area. With the command "digitise hatch" all intersection points are automatically measured and the different heights are displayed in colour. An ideal way to easily detect surface imperfections.



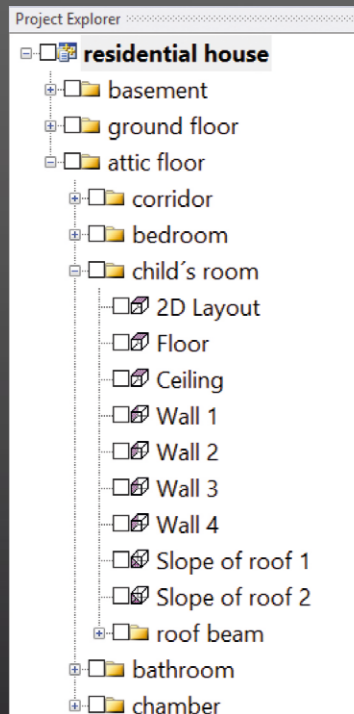
Project Explorer:

Survey data is structured hierarchically in folders and layers, visible or hidden as desired. Larger measurements are therefore easier to track and manage.

Create user defined horizontal, vertical or free planes. On a selected a plane, all measured points will be drawn on this plane.

For example, the position of a countertop can be defined as a horizontal plane onto which the countertop contour or a sink can be measured.

The Project Explorer can be accessed in either FlexiCAD on the Windows laptop (or tablet) or directly on the Flexijet 3D touch display.



Delivery

Flexijet 3D is delivered as a complete system.

All you need is a Windows tablet or a laptop to begin measuring.



Flexijet 3D measuring hardware

Includes laser measuring unit with touch display, 5 megapixel camera, inclination sensors, shock sensor, motor technology, WLAN and powerful lithium-ion battery (suitable for aircraft check-in).

FlexiCAD measurement software

(1 workstation license).

High-quality carry case with notebook work table on aluminium tripod, notebook bag and accessory compartments.

Flexijet accessories such as a high-quality carbon fibre tripod, remote control, charger, laser goggles, target stickers and aluminium measuring angles are also included.

Do you have any questions?

We are available by phone or via live chat on our website.

Our sales engineers are happy to arrange a no obligation demonstration appointment with you.

Subscribe to our newsletter for more exciting practical examples at www.flexijet.info



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