

KEY FEATURES

Designed to work in industrial and outdoor environments

360° x 270° Field of view

Data capture rate >175,000 points per second

Extremely clean, low noise data

Spatial Resolution of 1 mm at 28 m

Compact, lightweight design

Carrying case is approved as carry on luggage for most airlines

Data integrates with other Trimble survey instruments

The Trimble® FX scanner is an advanced 3D laser measurement system designed for use in industrial, shipbuilding and offshore platform environments where fast, clean, accurate data is necessary. With a 360° x 270° field of view and data capture rates that exceed 175,000 points per second, data can be quickly captured on the project.

The Trimble FX scanner is a mobile system that weighs just 10 kg, allowing for easy movement on a project. The included carrying case is approved by most airlines to be placed in an overhead luggage bin, allowing you to carry the instrument with you, reducing the risk of damage or misplacement if you had to ship it. The Trimble FX scanner also meets the carry on requirements for working in the offshore industry, where shipping equipment is restricted.

IT IS ALL IN THE DATA

The Trimble FX scanner allows users to measure existing conditions quickly and accurately, creating a high-resolution image. Each pixel in the image is intelligent and represents a 3D point in space that can be used for virtual surveying, locating interferences and connection points, or to create 2D and 3D CAD shapes for use with AVEVA, Intergraph, Autodesk, Bentley and other design software systems.

The Trimble FX scanner creates extremely clean, noise-free data, reducing the number of hours needed in the office to complete the project. Data can either be used in its raw format directly using the Trimble LASERGen™ suite of software applications or imported into Trimble RealWorks® Survey software or Trimble 3DIPSOS modeling software.

FLEXIBILITY

The Trimble FX scanner in conjunction with the Trimble FX controller software offers users a flexible 3D imaging solution by providing the ability to change the size of the image grid. This creates a low or high resolution dataset. Flexibility like this is necessary to adapt to a variety of projects such as a congested industrial environment, a reverse engineering project, verifying dimensional control or to control construction accuracy.

STATIONING AND SETUP

The Trimble FX scanner can either be mounted on a tripod using a standard tribrach or with a 5/8" threaded connection. It can also be directly mounted as needed to other brackets, columns, decking or ceiling joists. This allows users to position the instrument in any environment to capture the required data. There is no need to level or settle the instrument when positioning. The Trimble SceneManager software allows the user to quickly transform the data in the office to the correct location, reducing the time required in the field between station setups.

CONTROL AND TARGETING

Using The Trimble SceneManager field tools, users are able to quickly locate targets with the captured 3D scene and transform the locations to known positions. The Trimble FX scanner supports both flat targets and spheres, depending on the needs of the project. Users are able to create registration reports, showing the amount of error between stations and control, providing a full solution for the project.

TOTAL SOLUTION

Data from the Trimble FX scanner can be used alone or it can be combined with data from other Trimble surveying instruments such as the Trimble GX™ Scanner and the Trimble VX™ Spatial Station.



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