Trimble TX8

LASER SCANNER

The Trimble® TX8 laser scanner sets new standards for performance and ease of use in high-speed collection of 3D data. Using a state-of-the-art blend of speed, long range and precision, the Trimble TX8 delivers high quality results in industrial measurement, engineering, construction, forensics and other applications that require high levels of accuracy and flexibility.

A Revolution in 3D Scanning

Using Trimble's patented Lightning[™] technology, the Trimble TX8 can measure one million points per second while capturing precise data over its full measurement range. Because Trimble Lightning technology is less susceptible to variation in surface types and atmospheric conditions, you can capture complete datasets from each station.

The Trimble TX8 streamlines work in the office as well. The scanner's clean, low-noise data results in less time for processing. Data from the Trimble TX8 loads directly into Trimble RealWorks® and Trimble Scan Explorer software. The Trimble TX8 paired with Trimble RealWorks also provides efficient dataflow into popular CAD programs.

High Performance for Demanding Applications

The Trimble TX8 is ideal for capturing detailed data on existing conditions. Making high-speed measurements without compromising range or precision, the Trimble TX8 delivers high-density 3D point clouds needed by design and analysis professionals.

The Trimble TX8 provides a 360 degree x317 degree field of view and captures data at one million points per second with a typical scan time of only 3 minutes. The Trimble TX8 maintains its high precision over its entire range of 120 m and is available with an optional upgrade extending the range to an impressive 340 m.

Rugged, Flexible and Easy to Use

A colour touchscreen display and one-button scanning make data capture easy and efficient. The intuitive onboard software lets you quickly manage scan resolution and define scan areas. Because you capture only the data you need, you'll save time in the field and office.

Benefit from the flexibility to operate in demanding environments and situations. With its eye-safe Class 1 non-visible laser, the Trimble TX8 is safe to use even in busy public places. The Trimble TX8 features a rugged design, IP54 environmental rating, protected mirror and ability to capture data in bright sunlight.

Designed for mobility, the Trimble TX8 weighs just 11 kg and is powered by lightweight, long-life lithium ion batteries. The wheeled transportation case conforms to requirements of most airlines for checked luggage which allows you to easily transport the Trimble TX8 between job locations.

The Total Solution

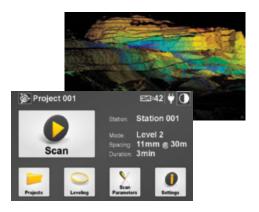
The Trimble TX8 is designed for a broad array of uses and environments. Typical applications include:

- Plant and industrial measurement
- Civil engineering
- Surveying
- Mining and quarries
- Building and commercial construction
- Architecture and design
- Preservation and restoration
- Deformation monitoring
- Quality control
- Accident investigation

With the Trimble TX8's ability to capture precise high-density 3D data combined with Trimble RealWorks software advanced modeling, analysis, and data management tools, the Trimble TX8 laser scanner is the complete scanning solution for Geospatial professionals.

Key Features

- ► Increase field productivity with the fastest, high resolution scans on the market
- Confidence in data accuracy, clarity and richness
- True performance in real world environments
- Intuitive and easy to operate
- Data integrates with Trimble survey instruments and Trimble Realworks software







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PERFORMANCE

Scanning principle Vertically rota Range principle Vertically rota	ating mirror on horizontally rotating base Ultra-high speed time-of-flight powered by Trimble Lightning technology
Scanning speed	1 million pts/sec
Range noise ⁵ <2 mm on m	
Range measurement 1, eye Laser class 1, eye Laser wavelength 1, eye Laser beam diameter Minimum range Max. standard range Extended range ¹ Range noise ⁵ <2 mm fr	
<1 mm f Range systematic error ^{5,6}	rom 2 m to 80 m on 18–90% reflectivity in High Precision mode ²
Scanning Field of view Angular accuracy ⁵	360°x317°

PHYSICAL Dimensions Weight Power supply Battery dimensions Battery weight	10.6 kg with tribrach and no battery; 11.0 kg with tribrach and battery 76 mm W x 43 mm H x 130 mm D Weight: 0.66 kg 89.2 mm W x 20.1mm H x 149.1 mm D
Power consumption Scan time per battery Instrument case	
ENVIRONMENTAL Operating temperature range (non-condensing atmosphere). Storage temperature. Operating humidity range Lighting conditions. All indoor &	20 °C to +50 °CNon condensing & outdoor conditions over entire range (no lighting limitations)

Scan Parameters	Preview	Level 1	Level 2	Level 3	Extended ¹
Max range	120 m	120 m	120 m	120 m	340 m
Scan duration (minutes) ³	01:00	02:00	03:00	10:00	20:00
Point spacing at 10 m	15.1 mm				
Point spacing at 30 m		22.6 mm	11.3 mm	5.7 mm	
Point spacing at 300 m					75.4 mm
Mirror rotating speed	60 rps	60 rps	60 rps	30 rps	16 rps
Number of points	8.7 Mpts	34 Mpts	138 Mpts	555 Mpts	312 Mpts

OTHERS

OTTIENS
Luminance resolution
Leveling External bubble, onboard electronic bubble
Dual axis compensation
Resolution
Range±10'
Accuracy ⁵
Data storage
Remote control Operate with Windows 7 or higher PC or tablet via
USB connection ⁴
Colour acquisition External camera kits available for high resolution
and HDR images

- Optional upgrade increases range to 340 m.
 Scan duration time is longer with High Precision scan mode.
 Scan duration times for Standard scan modes.
 Remote control requires optional Trimble TX8 USB cable PN 23704034.
 Specification given as 1 sigma.
 At distance of 1.5 m to 100 m for albedo >20%.

Specifications subject to change without notice.



Images courtesy of le FabShop

CLASS 1

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