Trimble TX6

LASER SCANNER

The Trimble® TX6 laser scanner is a cost effective solution for high speed collection of 3D data. It sets new standards for performance and ease of use. With its state-of-the-art blend of speed, range and precision, the Trimble TX6 delivers high quality results in building MEP, BIM, engineering, construction and other applications that require high levels of accuracy and flexibility.

A Revolution in 3D Scanning

Using Trimble's patented Lightning technology, the Trimble TX6 captures precise data at high speed over its full measurement range. And since Trimble Lightning technology is less susceptible to variations in surface types and atmospheric conditions, you can capture complete datasets from each station. To colorize scans, an integrated camera can quickly take full field-of-view HDR images in just two minutes from each station.

The Trimble TX6 streamlines work in the office as well. The scanner's clean, low-noise data reduces processing time. That data loads directly into Trimble RealWorks® and Trimble Scan Explorer, enabling project collaboration via Internet Explorer. The Trimble TX6 paired with RealWorks also provides efficient data flow into popular CAD programs, Trimble EdgeWise and SketchUp for point cloud modeling.

High Performance for Demanding Applications

The Trimble TX6 is ideal for capturing detailed data on existing conditions. By performing high-speed measurements without compromising range or precision, the Trimble TX6 delivers the high-density 3D point clouds needed by design and analysis professionals.

The Trimble TX6 provides a 360° x 317° field of view. Typical scan times are just three minutes to capture 34 million points or six minutes to capture 138 million points. The Trimble TX6 maintains its high precision over the entire range of 80 m with no need to reduce speed. Plus, it's available with an optional upgrade extending the range to 120 m.

Rugged, Flexible and Easy to Use

The TX6's color touchscreen display and one-button scanning make data capture easy and efficient. The intuitive interface lets you quickly manage scan resolution and define scan areas. Since you capture only the data you need, you'll save time in the field and office. You can also operate the scanner remotely with a Trimble tablet or other mobile device via integrated WLAN.

The Trimble TX6 has a rugged design with an IP54 rating and protected mirror to capture data in demanding environments and bright sunlight. And its Class 1 eye-safe laser make it safe to use in busy public places.

Designed for mobility, the Trimble TX6 weighs just 11 kg and is powered by lightweight, long-life lithium ion batteries. The wheeled transportation case conforms to most airlines' checked luggage requirements enabling easy transport between job sites.

The Total Solution

The Trimble TX6 is designed for a broad array of uses and environments. Typical applications include:

- Building Information Modeling (BIM)
- Virtual Design Construction (VDC)
- Pre-construction as-builts
- Quality control
- Preservation and restoration
- ▶ Deformation monitoring
- Plant and industrial measurement
- Public safety and forensics

The Trimble TX6's ability to capture precise high-density 3D data, combined with Trimble RealWorks software's advanced modeling, analysis and data management tools, make this laser scanner the complete scanning solution for construction professionals.

Key Features

- ► Increase field productivity with fast, high resolution scans
- Confidence in data accuracy, clarity and richness
- True performance in real world environments
- ► Fast image capture to colorize scans with VISION™ technology
- ► Intuitive and easy to operate
- Data integrates with Trimble survey instruments and Trimble Realworks software







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PERFORMANCE

	e
Scanning speed ² Maximum range	
Range noise ⁵	120 m with optional upgrade<2 mm on most surfaces
Range measurem Laser class Laser wavelength Laser beam diam Minimum range. Max. standard ran Extended range ¹ Range noise ⁵ Range systematic	

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Scan Parameters	Preview	Level 1	Level 2	Level 3
Max range ¹	80/120 m	80/120 m	80/120 m	80/120 m
Scan duration (minutes) ³	02:00	03:00	05:00	19:00
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				
Number of points	8.7 Mpts	34 Mpts	138 Mpts	555 Mpts

IMAGING

OTHERS

UTTILING	
Touchscreen display	TFT-LCD with 24-bit color
Size (mm)	93 (H) x 55.8 (V), equivalent 4.3" diagonal
	800 x 480 (WVGA)
Luminance resolution	
Leveling	External bubble, onboard electronic bubble
	Selectable on/off
	±5'
	USB 3.0 Flash Drive
Remote control Operate with	Trimble tablet or other mobile device via WLAN or
wi	th Windows 7 or higher PC or tablet via USB cable ⁴

- Optional upgrade increases range from 80m to 120 m.
 Effective scan speed for optimum scan quality.
 Scan duration times for Standard scan modes.
 Wired remote control requires optional 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.

PHYSICAL	
Dimensions	

Dimensions	335 mm W x 386 mm H x 242 mm D
	(13.2 in W x 15.2 in H x 9.5 in D)
Weight	10.7 kg (23.6 lb) with tribrach and no battery;
	11.2 kg (24.7 lb) with tribrach and battery
Power supply	76 mm W x 43 mm H x 130 mm Ď
	(3.0 in W x 1.7 in H x 5.1 in D);
	Weight: 0.66 kg (1.46 lb)
Battery dimensions	
	(3.5 in W x 0.8 in H x 5.9 in D)
Battery weight	0.46 kg (1 lb)
Power consumption	
Scan time per battery	>2 hours
	500 mm W x 366 mm H x 625 mm D
	(19.7 in W x 14.4 in H x 24.6 in D)

ENVIRONMENTAL

Operating temperature range
(non-condensing atmosphere)0 °C to +40 °C (32 °F to 104 °F)
Storage temperature
Operating humidity range
Lighting conditions
(no lighting limitations)
Protection class



CLASS 1

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