COMPARISON GUIDE

Trimble Laser Scanning

3D LASER SCANNING SOLUTIONS

Superior accuracy and range for even the most challenging scanning environments.

Each project requires the right tools—whether you're delivering a topographic survey, scan data of as-built conditions, performing comprehensive data analysis, or creating a renovation model based on an existing structure. Trimble® has developed the 3D scanning solutions you can trust to meet these challenges and quickly capture, analyze, model and produce precise deliverables.

Decide what is right for you by comparing the features and software components of Trimble 3D laser scanning solutions that boost efficiency in both the field and the office without compromising performance or accuracy.

Trimble®

COMPARISON GUIDE

Trimble X9
Laser scanning system

X9 CORE LT and CORE

Perfect for those looking to break into reality capture, but wary of the risks associated with large up-front investments.

The Trimble X9 Core LT and Core helps you take the first steps in your laser scanning journey without all the hassle. Whether you're looking to expand your offerings to more detailed deliverables, or looking to answer the questions you don't even know you have yet, the X9 Core LT and X9 Core are the perfect solutions to consider when getting started.

X9 PREMIUM

Being a surveyor or building contractor means no two days are the same. With so much diversity in your work, you need a solution that can rise to any challenge you throw at it.

The Trimble X9 Premium is engineered to do exactly that. Built to measure farther, faster, and finer, the X9 Premium is a scanning powerhouse, helping you capture large areas in a single setup, never missing a detail. Purposely designed to go anywhere you do, the X9 Premium is the perfect kit for any survey that comes your way.

Maximize field productivity with in-field registration. The X9 paired with Trimble Perspective or Trimble FieldLink software, automatically aligns scans on-site, eliminating post processing and significantly reducing field time.

Trimble®

COMPARISON GUIDE

Trimble X12
High-precision scanning

The Trimble X12 empowers scanning experts to capture more detailed, accurate, and refined data—no matter the distance.

The X12, powered by Trimble Perspective field software, offers critical functionality for the most demanding and intricate of survey work. When your project demands the most out of you, the Trimble X12 gives you the confidence that you can deliver no matter how unique the project.

The expert scanning solution

Trimble

COMPARISON GUIDE

Trimble SX12 Scanning total station

No survey truck is complete without the comprehensive capabilities of the Trimble SX12. For those whose work demands unique precision at any given moment, the SX12 ensure you'll never be caught empty-handed.

With all of the precision and accuracy of a total station, combined with the context and insight of a laser scanner, the SX12 is the perfect companion to any surveyor's kit. Seamlessly capture survey-grade point clouds with the confidence you depend on to deliver actionable data to your clients.

The all in one

Trimble

TRIMBLE X9 LASER SCANNING SYSTEM

CORE LT	0.6 M–40 M RANGE	500 K PTS/S	2–7 MIN TYPICAL SCAN DURATION
CORE	0.6 M–80 M RANGE	500 K PTS/S	2–7 MIN TYPICAL SCAN DURATION
PREMIUM	0.6 M–150 M RANGE	1 M PTS/S	1–6 MIN TYPICAL SCAN DURATION

Trimble Perspective and FieldLink Field Software

TRIMBLE X12 LASER SCANNING SYSTEM

0.3 M–250 M 365 M AMBIGUITY INTERVAL RANGE	2.187 M PTS/S	1–3 MIN TYPICAL SCAN DURATION

Trimble Perspective and FieldLink Field Software

TRIMBLE SX12 SCANNING TOTAL STATION

0.9 M–600 M RANGE	26.6 K PTS/S	6–12 MIN TYPICAL SCAN DURATION

Trimble Access™ Field Software

Trimble®

COMPARISON GUIDE

Trimble Scanning
3D LASER SCANNING SOLUTIONS

SCANNER SPECIFICATIONS			
	TRIMBLE X9 CORE LT / CORE / PREMIUM	**TRIMBLE X12**	**TRIMBLE SX12**
WEIGHT	6 kg	7.7 kg	7.8 kg
CALIBRATION	Automatic calibration	Annual service calibration	Manual field calibration service every 2 years
CAMERAS	3 x 10 MP	80 MP	3 x 8.1 MP
	1 minute for full dome	2 minutes for full dome	2.5 minute for full dome
REGISTRATION	In-field registration or target and cloud based registration in the office	In-field registration or target and cloud-based registration in the office	Surgical scanning with automatic scan registration
FIELD SOFTWARE	Trimble Perspective, Perspective mobile or Fieldlink software	Trimble Perspective or onboard interface field software	Trimble Access field software
WARRANTY	2 years standard warranty		
OFFICE SOFTWARE	Trimble RealWorks™ and Trimble Business Center office software		

** Trimble X9 is upgradable*

FIELD SOFTWARE			OFFICE SOFTWARE		
TRIMBLE FIELDLINK	**TRIMBLE PERSPECTIVE**	**TRIMBLE ACCESS**	**TRIMBLE REALWORKS**	**TRIMBLE BUSINESS CENTER**	**TRIMBLE CONNECT®**
In-field control and complete registration for X9 laser scanners	In-field control and complete registration for X9 and X12 laser scanners	Combine GNSS data and scans from the SX12 scanning total station all in one job	Trimble's flagship scanning software	The industry's leading survey software	Unlock the power of collaboration with the Trimble Reality Capture platform service
Scanner control for X9	Scanner control for X9 and X12	Scanner control for SX12	Scan and image processing	Field-to-finish survey software	Effortless collaboration with any stakeholder
Automatic in-field registration and georeferencing	Automatic in-field registration	Collect survey data and high-speed scans easily	Automated registration tools	Roadway/corridor sections	Secure, survey-quality cloud storage
Dynamic 2D and 3D viewing. Model to scan alignment and comparisons	Dynamic 2D and 3D viewing	Reliably collect the most complete datasets	2D CAD/3D models	Volumetrics and earthworks	Seamless access in any environment
Labels, annotations, measurements	Labels, annotations, measurements	Efficient data management within any geodetic coordinate system	Inspection/ classification	Scan classification/ drafting	Power deliverables, issue tracking, and coordination with real world data
Registration refinement and reports	Registration refinement and reports	Topo, stakeout, and surface inspection	3D animations	Feature coding	Flexible storage and support for multiple sources of data

PN 022516-742A (09/25)

Trimble®