SCANTECH

SIMSCAN

Portable 3D Laser Scanner

Small Is the Brand-New Big

SCANTECH

For More information contact your local reseller

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RapidScan3D

SIMSCAN

SIMSCAN, the only palm-sized portable 3D scanner in the market so far, is specially designed for 3D scanning narrow and hard-to-reach areas. Featuring a full-metal housing, it is incredibly sturdy and reliable. SIMSCAN has become a disruptive innovation among professional 3D scanners due to its compact size, simplicity, and robust performance. Its cutting-edge design also wins itself German Red Dot Award and China Design Silver Award.

SIMSCAN performs high-quality 3D scanning regardless of any restrictions from the working environment. It is ideal for 3D scanning both narrow spaces and large-scale parts. Users can accurately capture every detail of objects and construct 3D models in a very short amount of time with the help of this metrology-grade 3D measurement instrument.

reddot

RapidScan3D

Camera Distance: Circa 130 mm

Full-metal Housing

80 mm

44 mm

203 mm

China Design Silver Award

570 g
Net Weight

ISO
ISO 17025

0.020 mm
Accuracy

Narrow-space Measuring Booster

Compared with its competitors, SIMSCAN has a much shorter camera distance of 130 mm, which forms a steeper view angle to 3D scan narrow spaces. Therefore, SIMSCAN is more capable of capturing accurate and complete data in hard-to-reach areas like deep grooves and ensures users capture full-field data.

Detail, Everywhere

With its built-in HD cameras and three scanning modes, it realizes high-precision scanning with an accuracy up to 0.020 mm. It can accurately capture the 3D data of objects with complex surfaces or in confined areas.

Smooth 3D Experience

SIMSCAN can 3D scan objects with a rate up to 2.80 million measurement/s thanks to its sophisticated algorithm and a camera frame rate higher than most of its competitors. It is designed to offer users a smooth and efficient 3D digitizing experience.

Single-handed Control

SIMSCAN's full-metal housing provides solid protection and ensures extraordinary durability. Weighted only 570 g and sized 203 × 80 × 44 mm, SIMSCAN portable 3D scanner brings unparalleled simpleness for scanning anything with one hand.

Remarkable Portability

SIMSCAN boasts a compact size and excellent portability. No matter in narrow spaces or under huge objects, SIMSCAN portable 3D scanner can conduct 3D measurements anywhere and anytime. When paired with wireless communication link AirGo Pro, it supports mobile and flexible 3D scanning and data viewing.

RapidScan3D

Automated 3D Measurement

It can be paired with Scantech's automated 3D measurement system to achieve non-stop measurements. Automated high-batch measurement overcomes the limitation of traditional methods, and it significantly improves efficiency for all stages of manufacturing.

Cater to Needs of Various Sectors

Aerospace
Metrology-grade 3D scanning for product development and MRO workflow.

Energy & Heavy Industry
Empower the development of the energy industry and promote the upgrading of the heavy machine industry.

Automotive
Enhance work efficiency with precise 3D measurement instruments from concept design to manufacturing.

Rail Transport and Shipbuilding
Provide accurate measurement results for product development, virtual assembly, and repeatable analysis.

Mold
Portable 3D scanner to optimize mold design, mode corrosion detection and, archiving.

Non-industry
To meet the needs for 3D digitization for industries including medical field, architecture, science, education, and entertainment.

Technical Parameter

Type		SIMSCAN42	SIMSCAN30	SIMSCAN22
Scan mode	Ultra-fast scanning	17 blue laser crosses	11 blue laser crosses	7 blue laser crosses
	Hyperfine scanning	7 blue parallel laser lines		
	Deep hole scanning	1 extra blue laser line		
Accuracy [1]		Up to 0.020 mm		
Scanning rate		Up to 2,800,000 measurements/s	Up to 2,020,000 measurements/s	Up to 1,250,000 measurements/s
Scanning area		Up to 700 mm × 600 mm	Up to 650 mm × 550 mm	
Laser class		Class II (eye-safe)		
Resolution		0.020 mm		
Volume accuracy [2]	Standard	0.015 mm + 0.035 mm/m		
	Paired with MSCAN-L15	0.015 mm + 0.012 mm/m		
Stand-off distance		300 mm		
Depth of field		550 mm		
Output formats		.pj3, .asc, .igs, .txt, .mk2, .umk, .stl, .ply, .obj		
Operating temperature range		-10℃ - 40℃		
Interface mode		USB 3.0		
Dimensions		203 mm × 80 mm × 44 mm		
Weight		570 g		
Patents		CN204329903U, CN104501740B, CN204854633U, CN204944431U, CN204902788U, CN105068384B, CN105049664B, CN204902784U, CN204902785U, CN106403845B, CN110030946B, CN111833392A, CN212300269U, CN211904059U, CN211696268U, CN306053019S, CN212606697U, CN111932465A, CN111694665A, CN306321502S, EP3392831A4		

(1) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, probing error (size) (PS) performance is evaluated.
(2) ISO 17025 accredited: Based on VDI/VDE 2634 Part3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.

SCANVIEWER

Integrated Scan & Inspection 3D Software

ScanViewer is a free & powerful 3D software that includes inspection and scanning functions such as feature relationships, distance, GD&T and color mapping.

Scanned data can be used for rapid prototyping, reverse engineering, inspection comparison, 3D display, etc.

RapidScan3D