



SIMSCAN

3D Scanner

Small Is the Brand-New Big



red**dot**

Award 2021 winner

SIMSCAN, the **only hand-sized** 3D scanner in the market so far, is a disruptive innovation of the traditional 3D scanners' structure and a revolutionary product in 3D optical metrology industry.

No matter in narrow spaces, or under huge objects, SIMSCAN performs high-quality 3D scanning without any restriction of working environment. Metrology-grade measurement system helps capture every detail and construct 3D model in a very short time. Designed under minimalism, the metal shell enables SIMSCAN to achieve a balance between weight and performance.



Operation Principles

- 1) Two sets of cameras in scanner can respectively obtain the projection laser from the object. The laser will deform when scanner moving on the object surface, then we can calculate the linear 3D information from the laser as the distance between two cameras is accurately calibrated in advance.
- 2) Scanner identifies the spatial position according to the visual markers on the object surface when scanning, which is used for spatial position conversion.
- 3) The 3D position information where the laser goes through can be acquired by utilizing the linear 3D information and relative spatial position when scanner moves, thus form the continuous 3D information.

SIMSCAN Appearance







02 SIMSCAN Tech Specs

SIMSCAN Tech Specs

Type		SIMSCAN
Scan mode	Ultra-fast scanning	11 blue laser crosses
	Hyperfine scanning	7 blue parallel laser lines
	Deep hole scanning	1 extra blue laser line
Laser lines in total		30
Accuracy		Up to 0.020 mm
Scanning rate		Up to 2,020,000 measurements/s
Scanning area		Up to 410 mm × 400 mm
Laser class		Class II (eye-safe)
Resolution		Up to 0.025 mm
Volume accuracy		0.020 mm + 0.040 mm/m
Volumetric accuracy (With MSCAN-L15)		0.020 mm + 0.015 mm/m
Stand-off distance		300 mm
Depth of field		250 mm
Output formats		pj3,asc,igs,txt,mk2,umk,styl,ply,obj
Open formats		pj3,pjs,asc,igs,txt,mk2,umk,refxml,styl,ply,step
Operating temperature range		-10C° - 40C°
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

SIMSCAN Features



Single-handed Control

Weighted only 570 g and sized by 203 × 80 × 44 mm, SIMSCAN brings unparalleled simpleness for scanning anything with one hand.

Ultra-portable

No matter in narrow spaces, or under huge objects, the remarkable portability of SIMSCAN enables it to proceed 3D measurement anywhere and anytime.



Detail, Everywhere

Under parallel blue laser mode or single line deep hole mode, every detail is nowhere to hide, even for scanning complex surface.





Smooth 3D Experience

11 crossed blue lasers, 2,020,000 measurements/s and 410*400 mm scanning area bring smooth and efficient 3D digitizing experience.



Toughest Ever

Revolutionary full metal shell provides solid protection, aerospace-grade materials ensure extraordinary durability.



Aesthetic Design

With ergonomic design, SIMSCAN fits perfectly in your palm, truly realizing a perfect fusion of aesthetics and practicality.

Thanks for Watching

SCANTECH™



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