STAR Market
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Innovation Meets Digitization

R-3.6.4

Handheld 3D System

Composite 3D Scanner *NEW*

KSCAN Series

Boundless Vision, Unmatched Accuracy

03

Smart Handheld 3D Scanner

SIMSCAN Series

Precision in Your Palm

07

Tracking 3D System

Optical 3D Measurement System

TRACKSCAN SHARP Series

Large-volume and Precise Measurement Beyond Limits

12

Wireless 3D Scanning System

NIMBLETRACK Series

Nimble and Wireless, Easier Than Ever

14

3D Probing System

TRACKPROBE

Wide-area Measurement for Versatile Uses

19

Automated 3D System

Optical Automated 3D Measurement System

AM-CELL C Series

Simple but Versatile

21

Automated 3D Measurement Station

AM-DESK Series

Versatility and Efficiency Beyond Imagination

23

3D Software

3D Software

DefinSight

Ultimate 3D Scanning and Inspection in Every Aspect

25

3D Scanning Application

Our 3D scanning solutions are widely used across industries such as aerospace, automotive, construction, transportation, electronics, and green energy as well as in 3D digitization applications such as education, research, 3D printing, cultural preservation, healthcare, law enforcement, and virtual world.

Aerospace

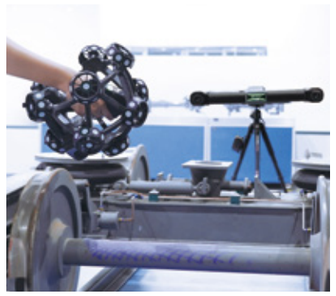
Automotive

Manufacturing

Mold

Health Care

Energy



Rail Transport

Antique & Sculpture

Education & Research

Comprehensive 3D Digitalization Expert

Providing customized advanced 3D digitalization solutions based on different measuring requirements from different industries.

3D Inspection
Quickly capture complete 3D data of parts for detailed analysis, identify the deviation from CAD data precisely and efficiently.

Product Development
Offer precise 3D data for new product development and design optimization, streamlining the process and boosting market competitiveness.

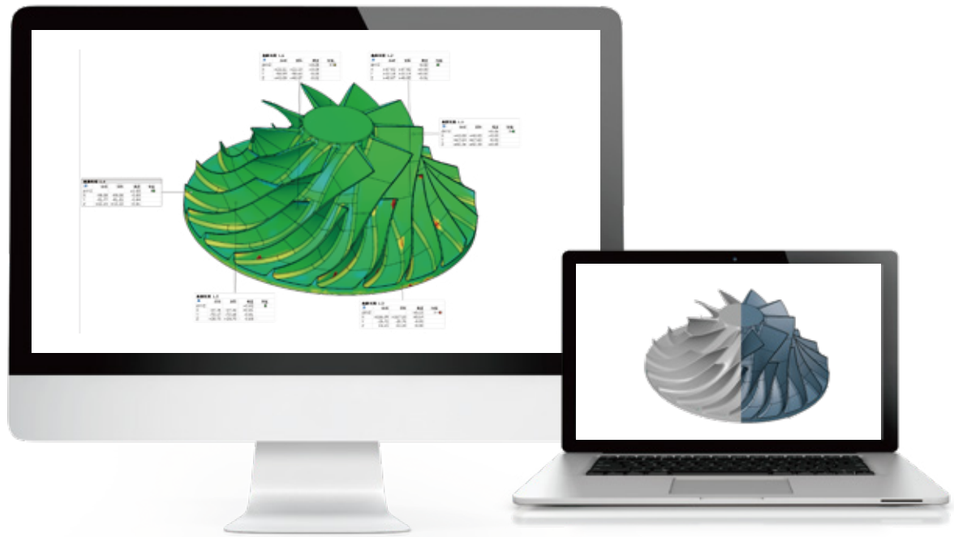
Reverse Engineering
Capture geometry and dimensions of existing products for product redesign, improvement, and optimization.

3D Printing
Create precise 3D models for 3D printing, speeding up the phase from design to production.

3D Visualization
Finish 3D modeling in a short time for the VR/AR showcase online.

Automated 3D Inspection
Real-time, automated batch inspection with accurate trend analysis to predict defective products, reducing waste and improving manufacturing efficiency.

Finite Element Analysis (FEA)
Provide reliable 3D data to FEA and CFD, solving complex manufacturing problem.



KSCAN – X

Featuring wireless operation, ultra-wide scanning area, extended depth of field, and fast scanning, the KSCAN-X offers smooth and high-precision 3D measurements for ultra-large and large to medium-sized parts across industries such as aerospace, heavy industry, and rail transportation.

Wide-Area Scanning, Exceptional Precision

Ultra-large Scanning Area
KSCAN-X, powered by our in-house developed algorithms, offers extensive scanning area of up to 2.6m*1.8m.

Ultra-large Depth of field
With a large depth of field ranging from 0.3-2.5m, KSCAN-X ensures precise measurements for everything from medium to ultra-large parts with exceptional quality.

Truly Wireless Scanning

It operates completely wire-free, enabling seamless scanning even in power-limited environments, at heights, or in remote locations.
-Robust on-board processing module
-Dual-battery system
-Dual-WNIC design technology

Deep Hole Measurement | No Blind Spots

1 single blue laser line, short camera-distance design of 235 mm, excellent for hard-to-reach areas

Faster and Smoother

4*21 Quad-cross blue laser lines | Scanning rate up to 6,450,000 measurements/s | 180 FPS High frame rate | Fewer markers

Ultra-large Parts | High Efficiency

Large FOV scanning:
It achieves exceptional accuracy of up to 0.075 mm, with volumetric accuracy reaching 0.075 mm + 0.010 mm/m.

Adaptive photogrammetry:
It eliminates cumulative errors and ensures consistent volumetric accuracy, delivering high-precision results for both large-scale and detailed measurements.

Intuitive & Adaptive

Touchscreen Interface:
Built-in full-color touchscreen for real-time hardware and software status updates.

Smart Guidance:
User-friendly software with customizable prompts for quick on-board and lower training costs.

Medium to Large-sized Parts | Capture Fine Details

- Innovative medium-distance scanning mode for scanning parts ranging from 0.5 m to 2 m
- 27 blue laser crosses
- 0.030 mm accuracy

Technical Specifications

		KSCAN-X
Scan mode	Large FOV scanning	84 blue laser lines
	Medium-distance scanning	54 blue laser lines
	Deep hole scanning	1 extra blue laser line
Accuracy [1]	Photogrammetry	Adaptive photogrammetry
	Medium-distance scanning	0.030 mm
	Large FOV scanning	0.075 mm
Volumetric accuracy [1][2]		0.075 mm + 0.010 mm/m
Scanning rate up to		6,450,000 measurements/s
Scanning area up to		2600 mm × 1800 mm
Working distance		0.30 m ~ 2.50 m
Object size		0.5 m ~ 15 m
Laser class		Class II (eye-safe)
Resolution up to		0.1 mm
Dimension		344 mm × 124 mm × 99 mm
Inter-camera distance		235 mm
Connection	Interface mode	USB3.0 Type-B
	Wireless standard	Wi-Fi 6，802.11a/b/g/n/ac
	Wireless connection	Support Dual WNIC
	Intelligent and wireless mode	Support
	Uninterrupted power supply	Support
Environment Adaptability	Operating environment	Fanless, suitable for workshop environments
	Operating temperature range	-10°C ~ 40°C
	Operating humidity	10% ~ 90% RH
	Protection rating	IP50
Patent		CN204329903U, CN104501740B, CN104165600B, CN204988183U, CN204854633U, CN204944431U, CN204902788U, CN105068384B, CN105049664B, CN204902784U, CN204963812U, CN204902785U, CN204902790U, CN106403845B, CN209197685U, CN209263911U, CN106500627B, CN106500628B, CN206132003U, CN206905709U, CN107202554B, CN209310754U, CN209485295U, CN209485271U, CN305446920S, CN209991946U, US10309770B2, KR102096806B1, KR102209255B1, US10914576B2, CN113470180B, CN113218417B, CN113063370B, CN218411073U, CN113310427B, CN113074659B, CN218772495U, CN113473034B, CN115830249B, CN219829786U, CN116206069B

(1) ISO 17025 accredited: Performance is evaluated based on JJF1951 specification, VDI/VDE 2634 Part 3 standard.
(2) Paired with 800-mm high-precision scale bar.

KSCAN-MAGIC

KSCAN-Magic Upgrade Series, the cutting-edging composite 3D scanner that integrates infrared and blue lasers in one versatile instrument, boasting five operating modes. This innovative 3D scanner series incorporates a multi-spectrum 3D scanning and calibration technique, combining exceptional efficiency and uncompromising accuracy. It features fast scanning speed, high accuracy, great detail capturing, large scanning area, and extended depth-of-field that greatly optimize the 3D measurement workflows and accelerate the product time-to-market.

Five Modes at Your Fingertips

Large-area Scanning
KSCAN-Magic innovatively adopts large-area scanning powered by 11 infrared parallel laser lines. Its ultimate scanning area reaches 1440 mm × 860 mm, achieving wide-range measurement with ease.

Ultra-fast Scanning
It can 3D scan with 17 blue laser crosses and capture up to 4,150,000 measurements per second, greatly improving work efficiency.

Hyperfine Scanning
With 7 parallel blue laser lines, KSCAN-Magic Upgrade Series 3D scanner can accurately obtain complete data of complex objects, easily capturing every detail with a maximum resolution of 0.010 mm.

Deep Hole Scanning
This mode can accurately capture 3D data of deep holes and hard-to-reach areas.

Built-in Large-area Photogrammetry
The built-in infrared photogrammetry system, with a shooting area of 3760 mm * 3150 mm, can efficiently reduce the accumulated errors caused by large-sized measurements, ensuring volumetric accuracy.

Metrology-grade NDT Measuring

Its scanning accuracy is of up to 0.020 mm, and its volumetric accuracy is 0.015 mm + 0.012 mm/m when paired with MSCAN-L15 photogrammetry system, which delivers ultra-high precision NDT for various industries.

Flexible Uses

KSCAN-Magic is lightweight and portable and can conduct 3D measurements anywhere and anytime regardless of vibrations, temperature, and humidity. Moreover, KSCAN-Magic is capable of 3D scanning various surfaces, including reflective and black surface, to capture precise 3D data.

Massive Functions

Intelligent edge inspection: It boasts an optional module for intelligent edge inspection. Users can inspect closed features precisely and obtain repeatable results.

Contact probing: It can be paired with a portable CMM K-Probe to probe inaccessible areas and complex parts.

Pipe measurement: It is capable of 3D scanning pipes of different sizes and materials for reverse engineering and inspection.

Automated 3D system: It can be paired with SCANTECH's automated 3D inspection system to conduct automated batch inspections.

Technical Specifications

Type		KSCAN-Magic	KSCAN-Magic II
Scan mode	Ultra-fast scanning	11 blue laser crosses	17 blue laser crosses
	Hyperfine scanning	7 blue parallel laser lines	
	Large area scanning	11 parallel infrared laser lines	
	Deep hole scanning	1 extra blue laser line	
Accuracy [1]		up to 0.020 mm (0.0008 in)	
Scanning rate up to		2,700,000 measurements/s	4,150,000 measurements/s
Scanning area up to		1440 mm × 860 mm (57.0 in × 33.9 in)	
Laser class		CLASS II (eye-safe)	
Resolution up to		0.010 mm (0.0004 in)	
Photogrammetry system	Scanning area	3760 mm × 3150 mm (148.0 in × 124.0 in)	
	Depth of field	2500 mm (98.4 in)	
Volume [2] accuracy	Work alone	0.015 mm + 0.030 mm/m (0.0006 in + 0.00036 in/ft)	
	Work with 1m reference bar	0.015 mm + 0.020 mm/m (0.0006 in + 0.00024 in/ft)	
	Work with MSCAN-L15	0.015 mm + 0.012 mm/m (0.0006 in + 0.00014 in/ft)	
Stand-off distance		300 mm (11.8 in)	
Depth of field		925 mm (36.4 in)	
Output formats		.stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.	
Operating temperature range		-10°C – 40°C (14°F-104°F)	
Interface mode		USB 3.0	
Patents		CN204329903U, CN104501740B, CN104165600B, CN204988183U, CN204854633U, CN204944431U, CN204902788U, CN105068384B, CN105049664B, CN204902784U, CN204963812U, CN204902785U, CN204902790U, CN106403845B, CN209197685U, CN209263911U, CN106500627B, CN106500628B, CN206132003U, CN206905709U, CN107202554B, CN209310754U, CN209485295U, CN209485271U, CN305446920S, CN209991946U, US10309770B2, KR102096806B1，KR102209255B1, US10914576B2	

(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.

SIMSCAN-E

The SIMSCAN-E is an intelligent, wireless, and palm-sized 3D scanner that combines a lightweight design with exceptional performance. Featuring advanced edge computing and wireless data transfer, it sets a new standard for flexible, wireless and free 3D scanning.

With robust algorithm and high-definition industrial cameras, SIMSCAN-E can capture 3D data with remarkable precision and efficiency, measuring up to 6.3 million measurements/s. It boasts three scanning modes, ultra-fast, hyperfine, and deep hole. This versatility allows it to handle a wide range of tasks effortlessly, from scanning in tight spaces to measuring complex structures.

Compact and Wireless

- Weighted only 600 g and sized 203 × 80 × 44 mm.
- Wireless 3D scanning.
- Sophisticated edge computing and wireless data transfer.
- Detachable charging base.

Fast, Smooth, and Efficient

- Measurement rate of 6.3 million measurements/s.
- 81 blue laser lines.
- 180-FPS frame rate.
- Ensures efficient and smooth scanning experiences.

Exceptional Detail Capture

- Image enhancement and sub-pixel feature extraction algorithms.
- Measurement accuracy up to 0.020 mm.
- For industrial-grade high-precision 3D scanning and measurement.

Excellent for Narrow Spaces

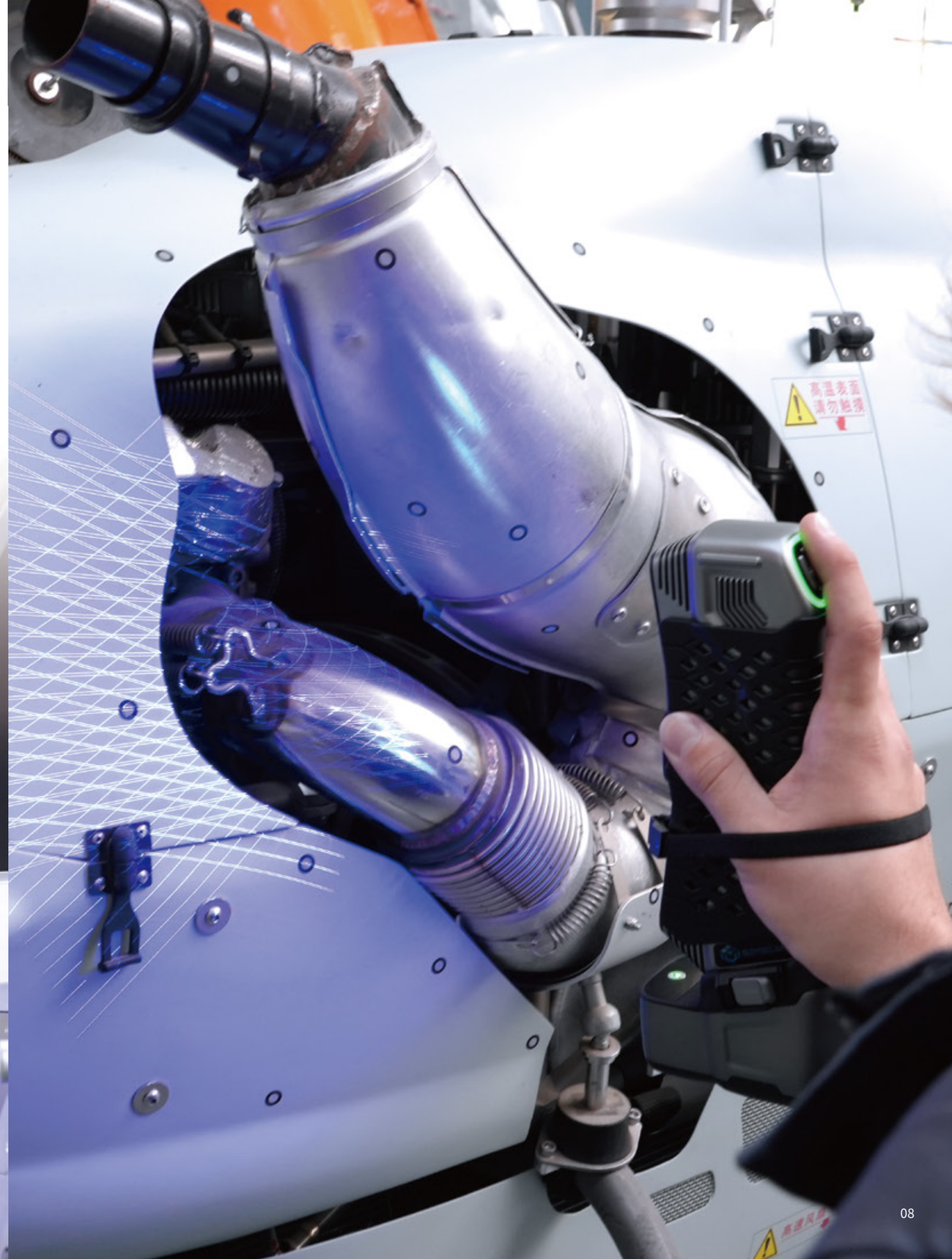
- Short-distance camera design, with a steep view angle.
- For hidden areas such as gaps, slots, deep holes, and channels.
- Improves data integrity.

Diverse Operating Modes

- **Ultra-fast scanning**: 63 blue laser lines for efficient scanning.
- **Hyperfine scanning**: 17 parallel blue laser lines for swift detail capturing.
- **Deep hole scanning**: 1 blue laser line for measuring deep holes.

Driven by Powerful and Efficient Software

- SIMSCAN-E operates with brand-new software platform DefinSight, equipped with cutting-edge algorithms and innovative layout, to simplify and speed up 3D scanning.



Technical Specifications

Type		SIMSCAN-E
Scan mode	Ultra-fast scanning	63 blue laser lines (Triple Cross Technology)
	Hyperfine scanning	17 blue parallel laser lines
	Deep hole scanning	1 extra blue laser line
Accuracy [1]		0.020 mm
Scanning rate up to		6,300,000 measurements/s
Scanning area up to		700 mm × 600 mm
Laser class		Class II (eye-safe)
Resolution up to		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		.stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.
Dimensions		203 mm × 80 mm × 44 mm
Weight		600 g
Operating temperature range		-10°C–40°C
Operating humidity range (non-condensing)		10-90% RH
Interface mode		USB3-B
Patents		CN204329903U, CN104501740B, CN204854633U, CN204944431U, CN204902788U, CN105068384B, CN105049664B, CN204902784U, CN204902785U, CN106403845B, CN110030946B, CN212300269U, CN211904059U,CN211696268U, CN306053019S, CN212606697U, CN306321502S

(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 Part 3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.

SIMSCAN

SIMSCAN, the only palm-sized Smart 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.

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.

Single-handed Control

- Full-metal housing.
- A weight of only 570 g and a size of 203 × 80 × 44 mm.
- Brings unparalleled simpleness for scanning anything with one hand.

Remarkable Portability

- Compact size and excellent portability.
- Conduct 3D measurements anywhere and anytime.

Narrow-space Measuring Booster

- A short camera distance around 130 mm.
- Capable of capturing accurate data in hard-to-reach areas.

Detail, Everywhere

- Built-in HD cameras and three scanning modes.
- High-precision scanning with an accuracy up to 0.020 mm.

Smooth 3D Experience

- Scanning rate up to 2.8 million measurement/s.
- Designed to offer users a smooth and efficient 3D digitizing experience

Automated 3D Measurement

- Paired with SCANTECH’ s automated 3D measurement system.
- Automated high-batch measurements supported.
- Improves efficiency for all stages of manufacturing.

reddot

Reddot award 2021 winner

Technical Specifications

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 (0.0008 in)		
Scanning rate up to		2,800,000 measurements/s	2,020,000 measurements/s	1,250,000 measurements/s
Scanning area up to		700 mm × 600 mm (27.6 in × 23.6 in)	650 mm × 550 mm (25.6 in × 21.7 in)	
Laser class		Class II (eye-safe)		
Resolution up to		0.020 mm (0.0008 in)		
Volume accuracy[2]	Work alone	0.015 mm + 0.035 mm/m (0.0006 in + 0.0004 in/ft)		
	Work with MSCAN-L15	0.015 mm + 0.012 mm/m (0.0006 in + 0.00014 in/ft)		
Stand-off distance		300 mm (11.8 in)		
Depth of field		550 mm (21.7 in)		
Output formats		stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.		
Operating temperature range		-10°C - 40°C (14°F-104°F)		
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, CN212300269U, CN211904059U, CN211696268U, CN306053019S, CN212606697U, CN306321502S		

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

TRACKSCAN SHARP-S

TrackScan Sharp-S Optical 3D Scanning System, engineered with 25-megapixel industrial cameras and robust onboard processors for edge computing, is specially designed for measuring large-scale parts over a long distance with high speed. It brings optical measurements to new heights by offering a tracking distance of up to 8.5 meters, a high-precision measurement range of 135 m^3, enabling powerful measurement experiences.

Long-distance and Large-volume Tracking

- Tracking distance as long as 8.5 meters.
- 135-m^3 industrial high-precision measurement range.
- Saves the hassle of moving trackers frequently.
- Measure large components efficiently in just one position.

Excellent and Stable Performance

- A maximum volumetric accuracy of 0.048 mm (10.4 m^3).
- Lightweight and stable structure with CFFIM technology.
- Unaffected by thermal variations to ensure high-precision measurements.
- Hand it over and position it freely.

Precise Detail Capture

- 17 parallel laser lines.
- Scan over a large area.
- Provides exceptional detail-capturing efficiency.
- Capture intricate details such as slots and angles with high precision and speed.

Wireless and Easy 3D Scanning

- Powerful onboard processors for edge computing.
- With batteries, and external network cards.
- Measure objects wirelessly.
- Plug-and-play.
- User-friendly operation.

Fast 3D Scanning

- Scans up to an impressive 4.86 million measurements/s.
- 81 blue laser lines.
- Ideal to capture 3D data and identify deviations of parts rapidly.
- Facilitates more efficient and intelligent measurements for manufacturers.

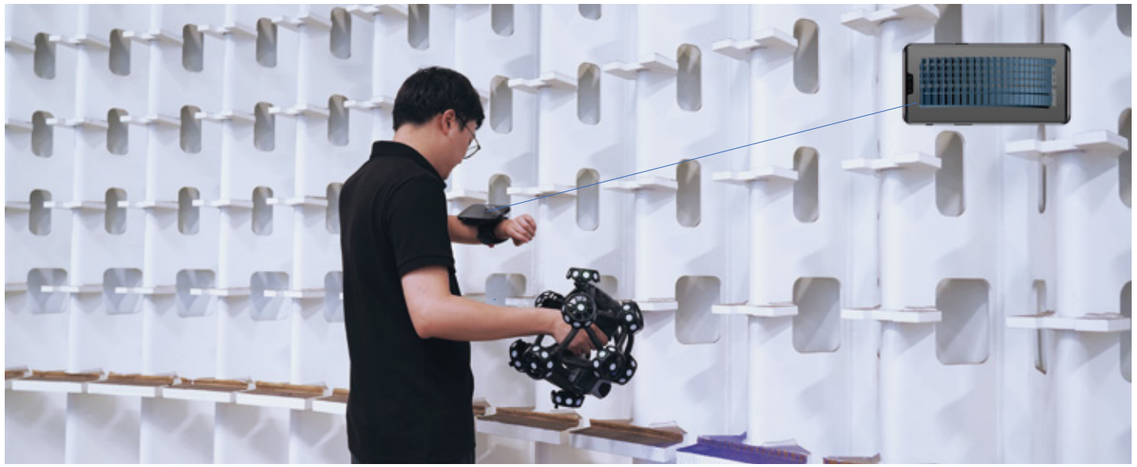
Versatile Compatibility

- Intelligent edge detection.
- i-Probe500.
- Multi-tracker measurement.
- Automated measurement.

Technical Specifications

Type		TrackScan Sharp-S
Scan mode	Ultra-fast scanning	81 blue laser lines (Triple Cross Technology)
	Hyperfine scanning	17 blue parallel laser lines
	Deep-hole scanning	Extra 1 blue laser line
Accuracy [1]		up to 0.025 mm
Measurement rate up to		4,860,000 measurements/s
Scanning area up to		800 mm × 700 mm
Laser class		Class II (eye-safe)
Resolution up to		0.020 mm
Volumetric accuracy [2]	10.4 m^3 (3.5 m)	0.048 mm
	35 m^3 (5.2 m)	0.069 mm
	90 m^3 (7.2 m)	0.128 mm
	135 m^3 (8.5 m) [3]	0.159 mm
Volumetric accuracy (with MSCAN photogrammetry system)		0.044 mm + 0.012 mm/m
Stand-off distance		300 mm
Depth of field		400 mm, 800 mm (Large depth of field)
Hole position accuracy		0.050 mm
Output format		.stl, .pj3, .igs, .asc and etc., customized
Operating temperature range		-10–40 °C
Operating humidity range (non-condensing)		10-90 % RH
Interface mode		USB 3.0, Network Interface
Certification		CE, Rohs, WEEE, FCC
Patents		CN109000582B, CN110992393B, CN111678459B, CN111694665B, CN112802002B, CN112867136B, CN112964196B, CN113188476B, CN113340234B, CN113432561B, CN113473034B, CN113514008B, CN113766083B, CN114001696B, CN114205483B, CN114554025B, CN114627249B, CN115289974B, CN115325959B, CN115493512B, CN115511688B, CN115661369B, CN115690333B, CN115695763B, CN116136396B, CN116206069B, CN116244730B, CN209263911U, CN210567185U, CN211121096U, CN214149174U, CN218103220U, CN218103238U, CN218411072U, CN218584004U, CN218734448U, CN219829788U, CN219834226U, CN307756797S, EP3392831B1, EP3907702B1, KR102096806B1, US10309770B2, US11060853B2, US11493326B2

(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 Part 3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.
(3)The industrial-grade high-precision measurement range of TrackScan Sharp-S is up to 135 m^3, and its scanning range is up to 233 m^3.



NIMBLETRACK

The NimbleTrack wireless 3D scanning system is highly compact and agile, which is designed to redefine the precise and dynamic measurements of small-to-medium-sized parts.

NimbleTrack ushers in the third generation of SCANTECH's 3D scanning technology featured by intelligent and wireless 3D scanning. With its wireless, target-free, precise 3D scanning and portability, NimbleTrack revolutionizes the 3D scanning.

Wireless Freedom

- The 3D scanner has a built-in powerful battery.
- The tracker comes with standard plug-in batteries Wireless data transfer and no-cable power supply.
- For measurements without access to electricity.

Dual Edge Computing and Robust Performance

- Both NimbleTrack's 3D scanner and tracker have powerful edge computing modules.
- Enables fast scanning at a high frame rate of 120 FPS.
- Saves the need for a power supply and targets sticking.

Incredible Compact & Plug-and-Play

- 57-cm and 2.2-kg i-Tracker.
- The 3D scanner weighing only 1.3 kg.
- A small standard protection case to accommodate all.

Stable Structure With CFFIM Technology

- Ensure lightweight design and high strength.
- More stable than traditionally assembled structures.
- Highly stable and unaffected by thermal fluctuations.
- Ensure precise and reliable measurement result.

Unleash Precision, Unleash Excellence

- The system achieves an accuracy of up to 0.025 mm.
- Maximum volumetric accuracy of 0.064 mm.
- NimbleTrack enables users to capture 3D data with meticulous details and industrial-grade precision.

Next Level 3D Scanning

- 3D scanner used independently for scanning narrow areas.
- Allowing for instant scanning and one-handed control.
- High-precision scanning of up to 0.020 mm.

reddot winner 2025

Get the Most From Your NimbleTrack

Intelligent Edge Detection
-Precise edge detection to inspect closed features.

i-Probe500
- Paired with a tracking i-Probe to probe inaccessible areas.

Multi-tracker Measurement
- Measurement range can be extended by adding more i-Trackers.

Automated Measurement
- Customized for automated measurement.

Technical Specifications

Type		NimbleTrack-C
Scan mode	Ultra-fast scanning	17 blue laser crosses
	Hyperfine scanning	7 blue parallel laser lines
	Deep hole scanning	1 blue laser line
Accuracy for scanner-only mode [1]		Up to 0.020 mm (0.0008 in)
Accuracy for system [1]		Up to 0.025 mm (0.0009 in)
Tracking distance per i-Tracker		3200 mm (126.0 in)
Volumetric accuracy [2] (Tracking distance 3.2 m)		0.064 mm (0.0025 in)
Volumetric accuracy (With MSCAN photogrammetry system)		0.044 mm + 0.012 mm/m (0.0017 in + 0.00014 in/ft)
Hole position accuracy		0.050 mm (0.0020 in)
Laser class		Class II (eye-safe)
Resolution up to		0.020 mm (0.0008 in)
Stand-off distance		300 mm (11.8 in)
Depth of field		400 mm (15.7 in)
Scanning area up to		500 mm × 600 mm (19.7 in × 23.6 in)
Scanning frame rate		120 fps
Measurement rate up to		4,900,000 measurements/s
Dimension of i-Scanner		238 mm × 203 mm × 230 mm (9.4 in × 8.0 in × 9.1 in)
Weight of i-Scanner		1.3 kg (Net weight) (2.87 lb)，1.4 kg (Battery and wireless module included) (3.09 lb)
Dimension of i-Tracker		570 mm × 87 mm × 94 mm (22.4 in x 3.4 in x 3.7 in)
Weight of i-Tracker		2.2 kg (Net weight) (4.85 lb)，2.6 kg (Battery and wireless module included) (5.73 lb)
Size of protection case		1000 mm × 425 mm × 280 mm (39.4 in × 16.7 in × 11.0 in)
Output format		.stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.
Operating temperature range		-10°C – 40°C (14 °F - 104°F)
Operating humidity (Non-condensation)		10-90% RH
Wireless operating mode		i-Scanner, i-Tracker, i-Scanner + i-Tracker, i-Tracker + i-Probe, Wireless multi-tracker tacking, Edge Inspection
Wireless standard		802.11a/n/ac
Interface mode		USB 3.0, Network Interface
Patents		CN109000582B, CN211121096U, CN210567185U, CN111678459B, CN114001696B, CN114554025B, CN114205483B, CN113514008B, CN114627249B, CN112867136B, CN218103220U, CN218103238U, CN307756797S,CN113340234B, CN112964196B, CN115289974B, CN113188476B, CN218411072U, CN115325959B, CN218584004U, CN115661369B, CN218734448U, CN115493512B, CN110992393B, CN116136396B,CN113432561B, CN219834226U, CN219829788U, CN116244730B, CN116206069B, US10309770B2, US10309770B2, US11060853B2, KR102096806B1, EP3392831B1, US11493326B2

(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 Part 3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.

NIMBLETRACK-CR

NimbleTrack-CR, an intelligent and wireless 3D scanning system, is especially designed for ultimate detail capture. With wireless freedom, lightweight and portable design, and high accuracy, this next-generation solution pushes the boundaries of 3D digitization.

Unmatched Detail Capture

NimbleTrack-CR is equipped with a state-of-the-art optical imaging system and intelligent algorithms for exceptional precision.

-Industrial Measurement: ISO 17025 certified | 0.025 mm accuracy for system | 0.020-mm accuracy for scanner-only mode.
-Art and Cultural Heritage: 0.010 mm max resolution | Class I laser safety for cultural heritage preservation mode | Non-contact and damage-free.

Flexible and All-in-One

-Multiple Scanning Modes: Supports ultra-fast scanning, hyper-fine scanning and deep hole scanning.
-Adapt to Different Environments: Handles various part sizes and types across indoor and outdoor settings.
-Multi-Material Compatibility: Scans textiles, ceramics, bronze, sheet metal, and more.

Wireless Measurement

The NimbleTrack-CR ensures continuous scanning without external power sources, offering greater flexibility and efficiency in the scanning process.

Excellent for Cultural Heritage Protection

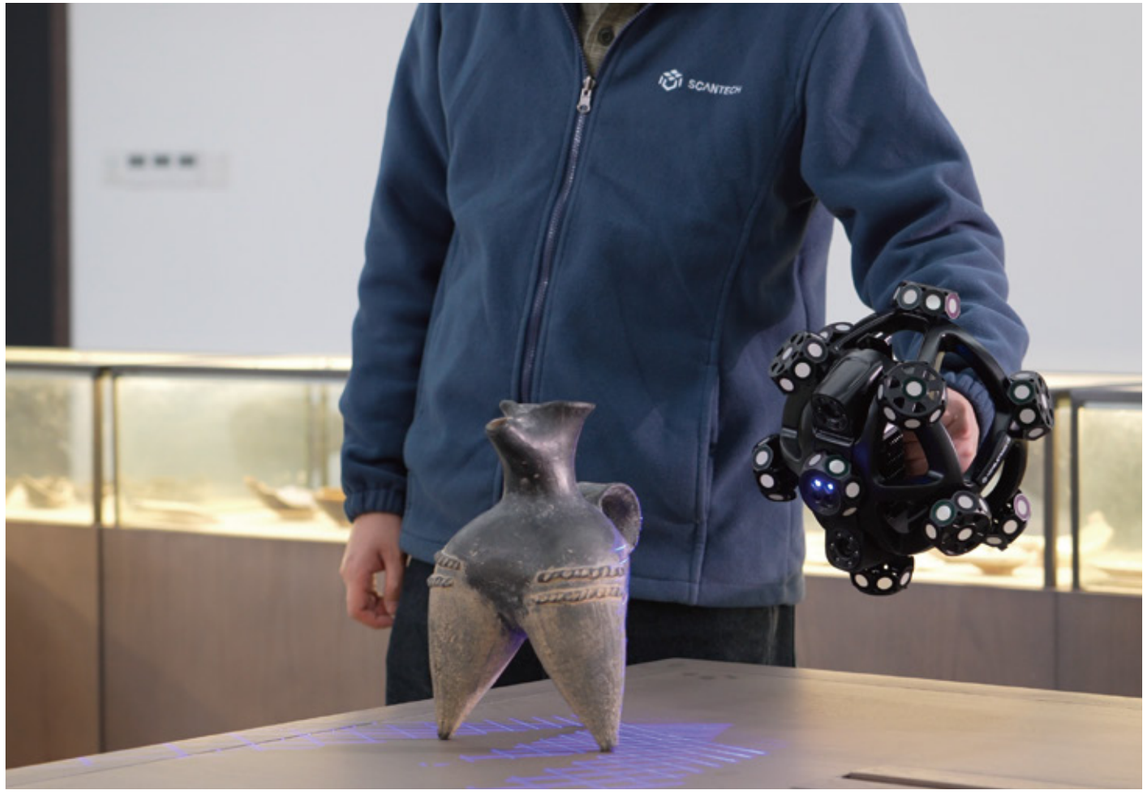
Leveraging high-precision 3D scanning and intelligent texture mapping, it faithfully reproduces colors, textures, and geometry for stunning, lifelike detail.

Lightweight and Portable Design

The 3D scanner is compact, measuring just 230 mm in diameter and weighing only 1.3 kg, and fits in a single case for easy transport and storage.

Software-Powered Measurement

Smart Resolution | Color Indicators | Real-time Multi-Resolution



Technical Specifications

Type		NimbleTrack-CR
Scan mode	Ultra-fast scanning	17 blue laser crosses
	Hyperfine scanning	7 blue parallel laser lines
	Deep hole scanning	1 blue laser line
Accuracy for scanner-only mode [1]		Up to 0.020 mm
Accuracy for system [1]		Up to 0.025 mm
Tracking distance per i-Tracker		3200 mm
Volumetric accuracy (Tracking distance 3.2 m)		0.064 mm
Volumetric accuracy (With MSCAN-L15 photogrammetry system)		0.044 mm + 0.012 mm/m
Hole position accuracy		0.050 mm
Laser class		Class II (eye-safe)
Resolution up to		0.010 mm
Stand-off distance		250 mm
Depth of field		300 mm
Scanning area up to		150 mm × 190 mm
Scanning frame rate		120 fps
Measurement rate up to		4,900,000 measurements/s
Dimension of i-Scanner		238mm × 203mm × 230mm
Weight of i-Scanner		1.3 kg (Net weight)
		1.4 kg (Battery and wireless module included)
Dimension of i-Tracker		570mm × 87mm × 94mm
Weight of i-Tracker		2.2 kg (Net weight)
		2.6 kg (Battery and wireless module included)
Size of protection case		1000mm × 425mm × 280mm
Output format		.stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.
Operating temperature range		-10°C ~ 40°C
Operating humidity (Non-condensation)		10% ~ 90% RH
Wireless operating mode		i-Scanner, i-Tracker, i-Scanner + i-Tracker, i-Tracker + i-Probe, Wireless multi-tracker tacking, Edge Inspection
Wireless standard		Wi-Fi 6，802.11a/b/g/n/ac
Interface mode		USB 3.0, Gigabit Ethernet
Patents		CN109000582B, CN211121096U, CN210567185U, CN111678459B, CN114001696B, CN114554025B, CN114205483B, CN113514008B, CN114627249B, CN112867136B, CN218103220U, CN218103238U, CN307756797S,CN113340234B, CN112964196B, CN115289974B, CN113188476B, CN218411072U, CN115325959B, CN218584004U, CN115661369B, CN218734448U, CN115493512B, CN110992393B, CN116136396B,CN113432561B, CN219834226U, CN219829788U, CN116244730B, CN116206069B, CN113766083B, CN222015590U, CN222027649U, CN308982243S, CN308982242S, CN222104664U, CN222279677U, CN222279678U, CN222321625U, CN222317979U, CN222317980U, CN222356423U, CN222353116U, CN222560923U, US10309770B2, US10309770B2, US11060853B2, KR102096806B1, EP3392831B1, US11493326B2

(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 Part 3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.

TRACKPROBE

The TrackProbe 3D probing system, consisting of tracking i-Probe and the latest optical tracker i-Tracker, is designed for metrology-level measurements. It is highly precise, portable, and easy-to-use, which ensures high-quality measurements for parts in large measurement volumes, at long distances, and in harsh conditions.

You can use it for various tasks on the shop floor, such as fixture adjustment, benchmark marking, and geometric and dimensional inspection of engineering machinery. TrackProbe can handle both small and large parts, and has no constraints on the measurement situation.

Extensive Measurement

-Measure parts in a distance of up to 6 meters.
-The tracking distance can be extended and reach 10 meters.
-Measure large-sized parts with high accuracy and excellent performance.

Precise Metrology-grade Results

-Measure the shapes and GD&T of different parts with high accuracy.
-The volume accuracy is 0.089 mm for 49.0 m³, 0.067 mm for 28.6 m³, and 0.049 mm for 10.4m³

Excellent for Deep Hidden Points

-Measure hidden points or hard-to-reach areas with high accuracy.
-Especially suitable for measuring automotive parts, aviation components, pipelines, holes, and irregular parts.

Non-stop Measurement and Easy Movement

-i-Probe can measure continuously without the need for i-Tracker to reposition it.
-Only a few markers are needed for i-Tracker to move and continue tracking the i-Probe.

Flexible and Portable for Free Measurement

-TrackProbe is a handheld probing system.
-Provide both wired and wireless data transfer.
-Automatically unify the coordinate systems of scan data and probing data with 3D software TViewer.

Diverse Uses

-Can be operated in various settings regardless of vibrations, temperature changes, humidity, and lighting.
-Calculate and correct position deviations to achieve high-precision measurements on shop floors or outdoors.
-Deal with complex surfaces, high-precision parts, or large-scale parts without any problem.

Technical Specification

Type		TrackProbe
Volumetric accuracy (1)	10.4 m³ (Tracking distance 3.5 m)	0.049 mm (0.0019 in)
	28.6 m³ (Tracking distance 5.0 m)	0.067 mm (0.0026 in)
	49.0 m³ (Tracking distance 6.0 m)	0.089 mm (0.0035 in)
Measurement distance (per tracker)		Max 10 m (393.7 in)
Part size range (recommended)		0.1 m - 12 m (3.9 in - 472.4 in)
Camera pixel of i-Tracker		25 MP
Dimensions of i-Probe 500		510 × 145 × 89 mm (20.1 × 5.7 × 3.5 in)
Weight of i-Probe 500		700 g (1.54 lb)
Operating temperature range		0–45°C (32°F-113°F)
Operating humidity range (non-condensing)		10 ~ 90% RH
Connection		Wired and wireless
Number of targets		16
Patents		ZL201520680513.1, ZL202210065778.5, ZL202221475584.4, ZL202221766958.8, ZL202320545878.8

(1) Comply with ISO 10360-2 standard.

AM-CELL C Series *NEW*

The AM-CELL C series optical automated 3D measurement system is developed for efficient and automated inspection of medium-to-large-sized parts such as stamping, injection-molded, machined sheet metal, and cast parts. Designed with innovative modular units, it enables various layouts, flexible deployment, and multiple-positioner operations.

Modular Unit Design, Inspection at Fingertips

- Been designed with an innovative modular unit concept.
- Features flexible layouts to meet different needs.
- Can be assembled and tested easily within 2 days.
- It supports manual robot teaching for quick path planning.

Flexible Deployment for High Throughputs

- Different solutions with multiple positioners designed for various measurement requirements.
- Achieves efficient measurement with zero downtime.

Safe and Stable

- Equipped with advanced servo-mechanists with precise force feedback to ensure safe operation.
- Opts for various protective measures such as safety fences, safety light curtains, and safety door locks.

Metrology-grade 3D Measurement

- Ultra-high measurement rate of up to 4,860,000 MPS.
- Metrology-grade accuracy of 0.025 mm.
- Enables automatic edge inspections to obtain accurate 3D data of closed features such as holes, slots, and rectangles.

Diverse Choices

- Compatible with different Long-reach cobots.
- Work with turntables of various dimensions and payloads ranging from 200 to 1000KG.

Automated Software DefinSight-AM

- In-house developed automated measurement software.
- Boasts advanced data capturing and highly intelligent robot control.
- Enables direct connection with a robot and reduces the skill level needed for robot operation.
- Supports both engineer mode and operator mode.

Vast Applications Deliver New Experiences

Shop Floor: Allows for on-site measurement on the shop floor.

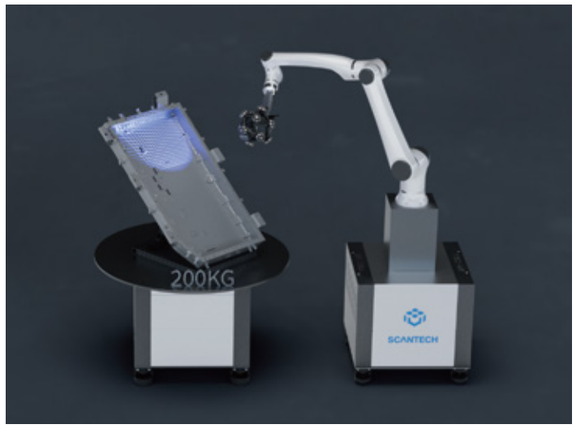
CMM Room: Safely and steadily run without special safety requirements.

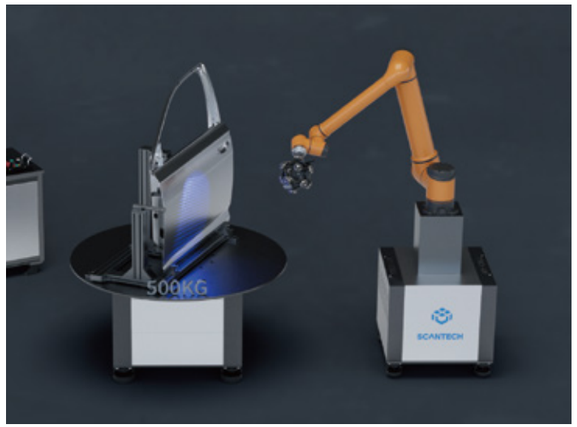
Educational Settings: Teachers and even students without much expertise can learn how to operate the measurement system safely in a short timeframe.

Technical Specifications

Type	AM-CELL C13X	AM-CELL C15X	AM-CELL C18X
Space Size	4 m × 3 m	4.5 m × 4 m	5 m × 4 m
Robot Type	Cobot, reaching 1300 mm	Cobot, reaching 1500 mm	Cobot, reaching 1800 mm
3D Scanner Supported	Full series of SCANTECH's Optical 3D Measurement System		
Communication Protocol	TCP/IP, USB 3.0, OPCUA		
Expanded Communication	Socket		
Safety Mode	Active Emergency Stop + Safety with Force Feedback		
Input Voltage	AC~220 V/50-60 Hz		
Equipment Power	1.5 KW	2.2 KW	3 KW

Turntable Type	TT200	TT500	TT800	TT1000
Payload	200 KG	500 KG	800 KG	1000 KG
Maximum Object Size	D≤Ø1200 mm, H≤1000 mm	D≤Ø1500 mm, H≤1200 mm	D≤Ø1800 mm, H≤1500 mm	D≤Ø2200 mm, H≤1800 mm
Turntable Power	0.75 KW	1 KW	1.5 KW	2 KW
Motor Type	Absolute Servo Motor			





AM-DESK

AM-DESK is an automated 3D measurement station consisting of an intelligent control system, multiple servo-mechanists, a safety system, a motion control system, measurement and analysis software, and SPC batch analysis software. Thanks to its compact size and easy installation, the station can cater to different needs with great flexibility.

AM-DESK can be paired with different collaborative robots and SCANTECH' s entire fleet of 3D scanners to measure small-sized parts automatically. It suits well for on-site inspections on shop floors, in labs, and under harsh conditions to ensure continuous 3D measurement with high precision.

Robust Performance

-Trusted 3D measurement station for various tasks whether in lab or on the shop floor. -Enables fast and automated inspections for parts ranging from casting parts, plastic parts to stamping parts within 100 kilograms.
-Generate inspection reports automatically by comparing actual 3D coordinates and CAD data.

Safety Guard

-CE marked, meeting EU' s safety, health, and environmental requirements.
-Highly safe methods, including serial arrangement for emergency stop, a buzzer to indicate potential dangers, and controllable force distance with servo-mechanists. -Supports 10-grade collision detection and sensor safety detection.

Easy Programming & Automated Calibration

-One-button start to conduct complex measurement tasks via pre-programmed measuring paths.
-Engineers and operators with different levels of expertise and programming skills can operate it with ease.
-fully and automatically calibrate* its sensor when environmental conditions changes.

* AM-DESK Lite does not support fully automated calibration

Quick Installation & High Flexibility

-Weighs 75 kg with a footprint of 1 square meter.
-Installed within 5 minutes with 110-220 V mains electricity.
-Work in unison with plug-and-play positioners to expand the workspace*.
-Work with different cobots and SCANTECH' s entire fleet of 3D scanners.

* AM-DESK Lite does not support the connection to multiple positioners.

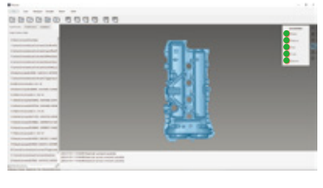
Technical Specifications

Type	AM-DESK 60120	AM-DESK Lite
Dimension	1200*600*177 mm (47.2 × 23.6 × 7.0 in)	1200*600*180 mm (47.2 × 23.6 × 7.1 in)
Weight	75 KG (165.3 lb)	70 KG (154.3 lb)
Turntable Payload	≤ 125 KG (275.6 lb)	≤ 75 KG (165.3 lb)
Max Rotational Speed of Turntable	50°/S	40°/S
Communication Interface	TCP/IP	TCP/IP
Robot Supported	URS, AUBO i5, JAKA ZU5, Han's E05-L, ELITE CS66/EC66/EA66, EFORT ECR5, FAIR FR5	
Power Supply	110V–220 V/50–60 Hz	220 VAC/50-60 Hz
Peak Power	900 W	700 W

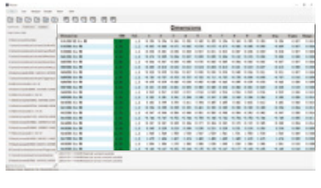
3D Software - FlexScan

FlexScan is an in-house developed software of SCANTECH designed for automated 3D measurement. It can support the functioning of robots such as KUKA, ABB, AUBO, FANUC, YASKA-WA, and more.

Product and Solution Management



Data Capturing and Pre-processing

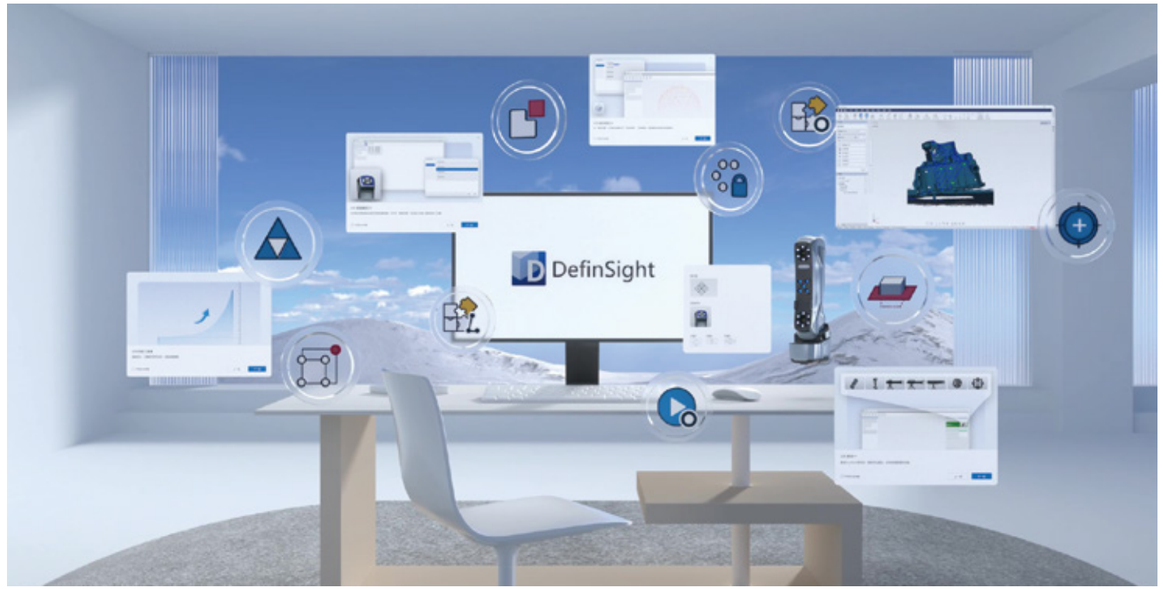


Data Optimization and Output

DefinSight

DefinSight All-in-One Metrology 3D Software Platform

DefinSight is an all-in-one metrology 3D software platform that aims to integrate the full capabilities of SCANTECH's cutting-edge 3D software. With its intelligent data-optimizing algorithm and real-time computing, DefinSight delivers advanced 3D scanning and inspection like never before.



Everything You Need

-Designed to work with our full range of industrial 3D scanners.
-3D scan, process, and analyze data in one integrated interface.
-Smooth flow, efficient processing, and storage of data.

Simple and Smooth

-Simple interface and intuitive icons.
-Quick-start guides.
-Large-font display for viewing from a distance.
-Immersive and engaging.

Designed for Easy Use

The user-oriented design of DefinSight makes it highly easy to use for beginners while also catering to the advanced needs of professionals. Whether you're a novice or an experienced user, you' ll find the platform easy to use, efficient, and intelligent.

For beginners:
Users can simplify complex parameter settings into linear workflows to make it accessible for beginners.

For professionals:
Due to its simple user interface, easy workflows, and intuitive instructions, professionals can perform 3D measurements with ease.

Get the Most Out of 3D Scanning

Quick to Start:
Quick to get started and connect directly to a 3D scanner.

Easy to Use:
Intelligently adapts to different surfaces.

Smooth Scanning:
Supports real-time scanning and encapsulation of 3D data.

Fast Processing:
Instant analysis of large scan data sets.

Gain Deeper Insights in Real-time Meshing

DefinSight unlocks the potential of 3D scanning with advanced data processing and computing algorithms. It offers optimized real-time meshing by converting point cloud data into detailed 3D models during scanning. With faster meshing generation and higher data quality, you' ll experience exceptional scanning precision and processing efficiency.

Worldwide Customers

Established in 2015, SCANTECH (HANGZHOU) CO., LTD. has grown into a global leader in offering comprehensive 3D digitization solutions. Dedicated to bridging the physical and digital worlds through cutting-edge technologies, SCANTECH strives to digitize everything to create a 3D future.

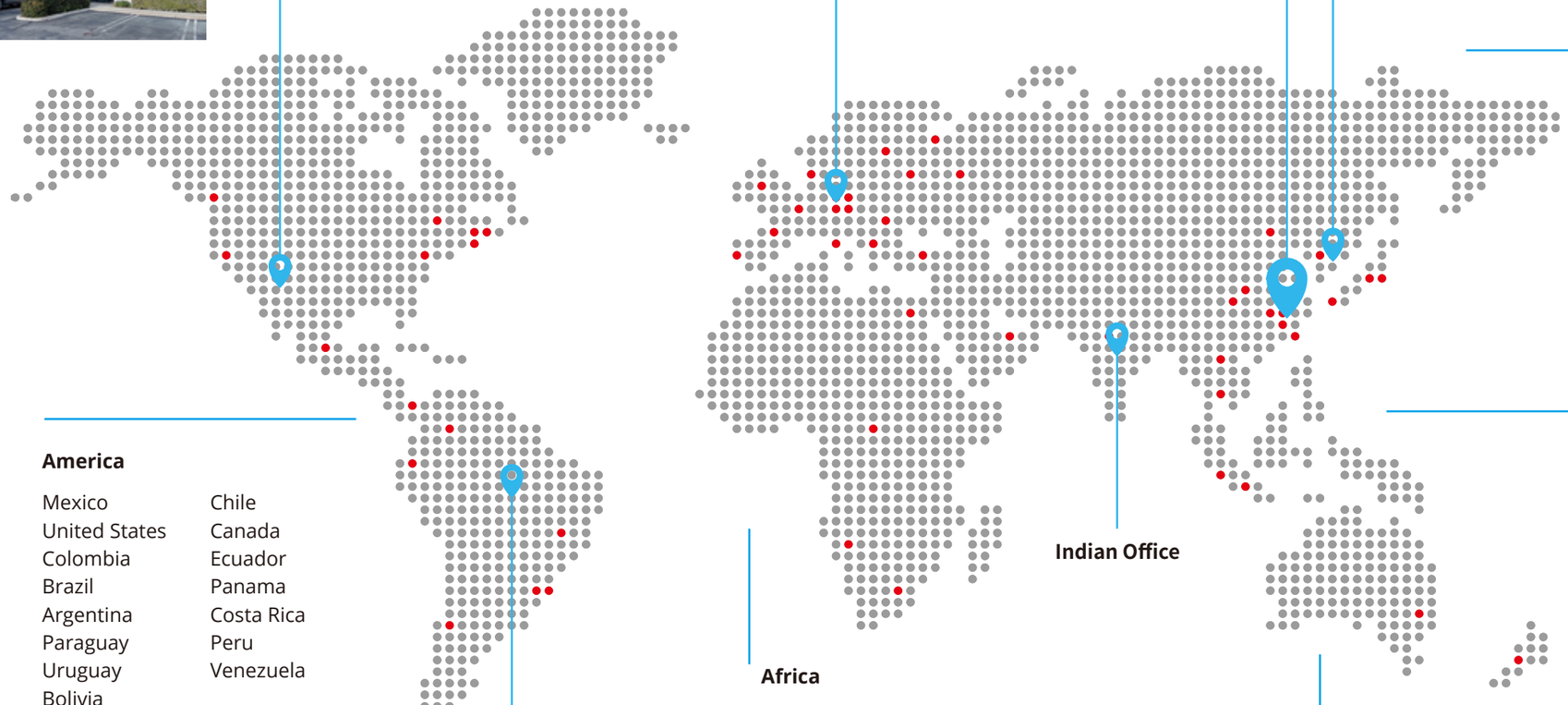
In 2025, Scantech became China’ s first publicly listed 3D scanning company on the SSE STAR Market. Leading six major industry innovations, its technology is used in the China Space Station project and C919 aircraft development. Scantech has earned top honors, including the national "Little Giant" enterprise award, CNAS accreditation, and the Red Dot Award and numerous patents.

SCANTECH HQ.

US Subsidiary
Calibration Center

German Subsidiary
Calibration Center

Korean Office



Europe

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Belgium	Croatia	United Kingdom
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France	Romania	Netherlands
Finland	Denmark	Spain
Ireland	Greece	Czech Republic
Sweden	Austria	Slovakia
Bulgaria	Latvia	Slovenia
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Oceania

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New Zealand